

Table S1 The expression data from the estrus ovaries of Xiang pigs with large and small liter size

gene id	chr	XL13	XL17	XL18	mean fpkm	XS12	XS15	XS16	mean fpkm
		gene fpkm	gene fpkm	gene fpkm		gene fpkm	gene fpkm	gene fpkm	
ENSSSCG00000004489	1	3409.80	3670.41	3523.14	3534.45	4162.42	3776.40	4668.77	4202.53
ENSSSCG00000014540	2	3739.19	2812.97	2170.87	2907.68	1798.29	1841.20	1951.77	1863.75
ENSSSCG00000040929	11	2580.82	2672.38	2384.82	2546.01	2658.37	3038.57	3819.32	3172.09
ENSSSCG00000013597	2	2174.58	2078.48	1976.63	2076.56	2157.35	2387.24	2420.89	2321.83
ENSSSCG00000038507	1	2049.98	2035.29	2128.93	2071.40	2030.75	2332.14	2413.17	2258.69
ENSSSCG00000037674	1	1526.13	1585.29	1521.23	1544.22	1788.34	1666.58	2110.65	1855.19
ENSSSCG00000012277	X	462.37	2635.12	1399.24	1498.91	84.34	114.06	507.60	235.33
ENSSSCG00000035768	3	1448.41	1428.00	1444.70	1440.37	1237.93	1524.57	1425.33	1395.94
ENSSSCG00000008245	3	1488.40	1250.64	1563.92	1434.32	615.60	1063.48	1460.11	1046.40
ENSSSCG00000011033	10	1521.15	1122.31	1648.42	1430.63	218.41	1063.61	997.17	759.73
ENSSSCG00000027358	7	1538.37	1328.93	1386.43	1417.91	1460.56	1511.68	1373.73	1448.66
ENSSSCG00000028355	12	1620.77	1406.77	1209.07	1412.20	771.41	707.29	974.54	817.75
ENSSSCG00000036438	16	1478.32	1110.57	1600.09	1396.33	104.47	472.37	403.96	326.93
ENSSSCG00000020817	6	1289.52	1282.72	1311.31	1294.52	1177.48	1346.57	1422.32	1315.46
ENSSSCG00000022176	5	1317.73	1104.95	1365.15	1262.61	2056.54	963.10	1235.47	1418.37
ENSSSCG00000001502	7	1254.52	1177.03	1184.43	1205.33	1030.80	1159.49	1261.39	1150.56
ENSSSCG00000015326	9	934.27	1244.69	1398.88	1192.61	230.02	637.98	1036.83	634.94
ENSSSCG00000036014	14	1264.67	1143.84	1165.44	1191.32	1135.32	1296.31	1665.61	1365.75
ENSSSCG00000039544	14	1133.11	1101.28	1277.65	1170.68	1149.24	1207.25	1310.04	1222.18
ENSSSCG00000012119	X	1169.50	1133.37	1112.84	1138.57	1112.07	1264.54	1116.29	1164.30
ENSSSCG00000035904	1	1173.41	1107.58	1082.36	1121.12	1168.00	1207.61	1445.50	1273.70
ENSSSCG00000035997	X	1077.58	1113.11	1085.75	1092.15	1235.98	1326.30	1614.73	1392.34
ENSSSCG00000027573	13	1071.38	943.70	944.94	986.67	830.78	911.59	1011.49	917.95
ENSSSCG00000014855	9	1038.04	902.64	953.93	964.87	962.09	920.98	997.18	960.08
ENSSSCG00000024260	6	985.02	948.54	950.25	961.27	1030.09	1157.37	997.25	1061.57
ENSSSCG00000003042	6	936.21	977.68	958.22	957.37	948.80	982.45	1139.90	1023.72
ENSSSCG00000029830	4	1005.17	916.50	923.66	948.45	902.00	871.48	889.01	887.50
ENSSSCG00000021825	17	908.65	1005.80	916.35	943.60	707.08	1096.84	1163.09	989.00
ENSSSCG00000036135	12	822.25	931.29	1060.18	937.91	148.36	540.05	938.28	542.23
ENSSSCG00000028623	13	1648.66	394.88	759.31	934.28	2.68	801.77	471.79	425.41
ENSSSCG00000017082	16	832.90	975.82	985.40	931.37	224.65	647.36	915.66	595.89
ENSSSCG00000003930	6	939.47	885.00	948.56	924.34	876.86	1000.86	1158.65	1012.12
ENSSSCG000000033169	2	913.01	909.26	915.28	912.52	708.63	833.20	960.21	834.01
ENSSSCG00000013381	2	1010.33	866.67	857.02	911.34	810.69	895.48	858.13	854.77
ENSSSCG00000016034	15	513.46	1066.35	1043.63	874.48	330.45	821.45	1373.46	841.79
ENSSSCG00000011952	13	984.17	840.15	794.61	872.98	912.27	902.76	838.28	884.43
ENSSSCG00000007585	3	869.40	780.45	839.68	829.84	795.02	519.04	628.04	647.37
ENSSSCG00000004578	1	334.02	898.68	1241.40	824.70	359.10	296.97	1011.98	556.02
ENSSSCG00000003153	6	596.39	1142.85	722.85	820.70	488.19	1013.89	534.68	678.92
ENSSSCG00000008913	8	901.74	758.42	766.34	808.83	317.06	500.54	592.97	470.19
ENSSSCG00000009019	8	821.40	780.52	796.12	799.35	948.33	1024.18	1009.06	993.86
ENSSSCG00000040273	13	803.59	772.55	784.38	786.84	800.28	927.41	976.97	901.55
ENSSSCG00000001543	7	818.01	737.57	780.69	778.76	727.16	785.58	840.08	784.27
ENSSSCG00000008170	3	830.62	757.87	719.06	769.18	791.33	812.60	759.50	787.81
ENSSSCG00000030849	X	785.85	749.04	744.33	759.74	672.05	759.63	782.54	738.07
ENSSSCG00000017509	12	815.22	721.99	723.55	753.58	800.04	785.88	918.23	834.72
ENSSSCG00000014133	2	746.51	754.66	755.83	752.33	527.97	713.25	770.79	670.67
ENSSSCG00000012405	X	764.94	768.41	701.57	744.97	708.92	691.52	736.66	712.37
ENSSSCG00000004177	1	664.04	762.00	790.93	738.99	670.21	802.24	849.13	773.86
ENSSSCG00000011147	10	1111.77	578.11	439.10	709.66	6.03	99.31	93.52	66.29
ENSSSCG00000029724	2	754.86	654.36	667.27	692.16	543.04	541.50	639.75	574.76
ENSSSCG00000035007	1	730.49	642.50	676.33	683.11	673.13	778.70	822.86	758.23

ENSSSCG00000013064	2	717.92	639.45	623.07	660.15	643.66	645.75	805.55	698.32
ENSSSCG00000017239	12	673.64	655.79	622.03	650.49	603.05	677.45	662.84	647.78
ENSSSCG00000039460	6	668.91	642.84	630.97	647.57	509.37	553.91	699.67	587.65
ENSSSCG00000029785	6	684.56	523.26	709.27	639.03	752.02	489.05	592.09	611.05
ENSSSCG00000004945	1	681.33	576.01	602.11	619.81	627.94	624.84	635.02	629.27
ENSSSCG00000015140	9	685.01	840.61	318.98	614.87	375.58	341.55	386.03	367.72
ENSSSCG00000014924	9	160.30	1096.73	558.49	605.17	70.45	115.34	176.03	120.61
ENSSSCG00000033697	3	596.76	589.25	608.16	598.05	606.90	586.99	725.50	639.79
ENSSSCG00000025928	6	636.54	573.85	575.97	595.45	507.39	542.21	601.45	550.35
ENSSSCG00000025675	2	559.59	588.28	628.25	592.04	598.40	583.38	748.88	643.55
ENSSSCG00000024974	6	581.21	553.78	584.41	573.13	453.71	490.49	552.93	499.04
ENSSSCG00000000915	5	421.48	600.25	661.12	560.95	379.66	647.81	576.86	534.78
ENSSSCG00000032111	4	607.04	500.59	563.92	557.18	570.13	654.15	462.55	562.28
ENSSSCG00000005169	1	574.45	542.70	530.75	549.30	449.89	549.06	480.69	493.21
ENSSSCG00000034617	3	543.65	536.13	508.93	529.57	624.63	665.63	708.14	666.14
ENSSSCG00000037274	15	718.32	513.94	344.76	525.67	752.06	600.76	667.05	673.29
ENSSSCG00000031370	2	623.37	485.71	458.84	522.64	374.60	464.46	454.36	431.14
ENSSSCG00000000694	5	450.40	470.16	626.09	515.55	669.82	418.48	607.65	565.32
ENSSSCG00000023666	14	393.86	573.16	569.90	512.31	115.38	286.57	259.31	220.42
ENSSSCG00000010281	14	403.61	606.70	525.72	512.01	272.27	390.75	388.66	350.56
ENSSSCG00000031838	4	507.72	525.00	499.50	510.74	539.01	619.77	743.51	634.09
ENSSSCG00000025698	3	352.35	1023.89	135.29	503.84	14.17	19.89	62.52	32.19
ENSSSCG00000006081	4	503.31	500.91	503.58	502.60	522.31	524.72	560.89	535.97
ENSSSCG00000035520	X	595.05	425.25	481.95	500.75	558.58	480.59	448.19	495.79
ENSSSCG00000021208	16	372.35	661.70	460.62	498.22	177.12	550.94	309.46	345.84
ENSSSCG00000003165	6	516.54	481.00	442.19	479.91	439.12	496.29	527.05	487.49
ENSSSCG00000031088	3	515.05	449.41	453.53	472.66	416.71	484.27	512.13	471.04
ENSSSCG00000011272	13	501.28	465.39	443.56	470.07	585.00	580.47	595.30	586.92
ENSSSCG00000009403	11	376.16	553.82	480.00	470.00	327.47	524.02	339.69	397.06
ENSSSCG00000012173	X	341.51	571.79	466.46	459.92	396.01	532.80	663.58	530.80
ENSSSCG00000011831	13	400.38	586.83	384.43	457.21	17.23	269.95	197.77	161.65
ENSSSCG00000035811	13	460.67	455.44	453.70	456.60	456.26	484.34	471.60	470.74
ENSSSCG00000000361	5	405.79	521.74	437.61	455.05	228.74	276.70	355.64	287.03
ENSSSCG00000004970	1	420.94	445.90	498.19	455.01	556.53	522.88	715.71	598.37
ENSSSCG00000013887	2	702.67	128.85	529.23	453.58	0.19	38.83	56.25	31.76
ENSSSCG00000000374	5	431.08	442.88	480.20	451.39	401.35	496.29	651.07	516.24
ENSSSCG00000023971	10	522.21	393.66	411.55	442.48	430.46	536.26	566.04	510.92
ENSSSCG00000024263	1	433.84	401.79	485.95	440.52	333.83	346.33	509.66	396.61
ENSSSCG00000012974	2	425.49	428.67	460.70	438.29	295.61	252.84	358.62	302.35
ENSSSCG00000002669	6	93.94	823.44	394.19	437.19	23.61	75.14	72.42	57.06
ENSSSCG00000039795	5	382.50	369.29	536.30	429.36	677.40	275.76	413.64	455.60
ENSSSCG00000016233	15	619.45	255.66	399.00	424.70	2.58	179.71	166.70	116.33
ENSSSCG00000036296	9	439.02	384.07	444.37	422.49	427.08	442.92	472.06	447.35
ENSSSCG00000030300	6	412.62	598.20	252.45	421.09	235.37	231.02	561.41	342.60
ENSSSCG00000039046	X	444.11	378.03	409.84	410.66	366.20	416.11	353.67	378.66
ENSSSCG00000020771	15	193.93	432.96	580.35	402.42	0.39	28.96	209.95	79.77
ENSSSCG00000028850	12	401.54	366.17	433.19	400.30	431.69	449.99	389.55	423.74
ENSSSCG00000025273	7	754.97	265.80	158.58	393.12	2.08	35.49	30.78	22.79
ENSSSCG00000007524	17	394.06	363.88	421.24	393.06	382.56	384.64	428.26	398.48
ENSSSCG00000032556	3	463.62	366.96	346.52	392.36	201.85	203.30	281.25	228.80
ENSSSCG00000009303	11	436.21	364.65	369.82	390.23	291.40	368.37	360.14	339.97
ENSSSCG00000039468	9	496.44	328.55	320.45	381.81	138.34	166.54	231.51	178.79
ENSSSCG00000007520	17	389.56	421.96	326.76	379.43	267.69	288.43	263.05	273.06
ENSSSCG00000037030	13	376.61	382.65	373.11	377.46	373.20	360.21	369.78	367.73
ENSSSCG00000013460	2	382.08	380.47	363.84	375.47	301.50	319.14	422.92	347.85
ENSSSCG00000025507	12	370.12	364.01	389.01	374.38	315.52	374.18	368.78	352.83

ENSSSCG00000024669	6	355.99	369.19	396.03	373.74	183.74	266.31	181.76	210.60
ENSSSCG00000006899	4	381.17	371.45	361.50	371.37	427.61	407.92	376.73	404.09
ENSSSCG000000000886	5	333.43	453.52	325.60	370.85	176.46	237.10	283.67	232.41
ENSSSCG000000036350	18	424.94	348.66	338.86	370.82	357.27	316.32	229.39	300.99
ENSSSCG000000033326	16	357.17	375.76	369.10	367.34	399.00	418.13	410.53	409.22
ENSSSCG000000037567	3	318.80	439.67	336.28	364.92	218.85	141.18	217.89	192.64
ENSSSCG00000005453	1	519.28	309.68	264.10	364.35	142.81	324.79	221.46	229.69
ENSSSCG00000003555	6	396.12	332.90	360.57	363.19	489.94	395.60	439.42	441.65
ENSSSCG00000017936	12	336.92	388.56	363.23	362.90	384.37	442.88	485.28	437.51
ENSSSCG00000011803	13	350.97	340.71	387.54	359.74	480.89	408.12	419.87	436.29
ENSSSCG00000010447	14	447.70	260.06	356.28	354.68	811.19	164.65	186.64	387.49
ENSSSCG00000013405	2	318.39	373.77	370.92	354.36	228.74	241.04	272.63	247.47
ENSSSCG00000025192	8	364.05	346.84	345.21	352.04	389.59	414.43	341.22	381.75
ENSSSCG000000039426	13	216.74	426.33	396.62	346.56	125.74	158.82	217.59	167.38
ENSSSCG00000012842	2	354.73	336.67	327.62	339.67	298.71	344.36	410.33	351.13
ENSSSCG00000017430	12	343.22	457.06	215.22	338.50	218.23	185.13	217.75	207.04
ENSSSCG00000017472	12	277.56	578.76	155.86	337.39	49.29	65.59	82.86	65.91
ENSSSCG00000022343	6	376.23	226.88	400.04	334.38	112.16	213.64	257.45	194.42
ENSSSCG00000004002	6	361.86	325.80	313.01	333.55	340.03	334.53	350.15	341.57
ENSSSCG000000032092	12	356.24	358.45	251.79	322.16	282.28	277.86	243.73	267.96
ENSSSCG00000013889	2	368.55	298.58	297.10	321.41	277.15	291.45	347.55	305.38
ENSSSCG00000020830	5	345.01	292.53	321.31	319.62	446.17	420.47	271.63	379.42
ENSSSCG00000009097	8	387.21	280.68	288.68	318.86	150.96	220.79	287.69	219.81
ENSSSCG00000028485	6	339.29	289.01	320.67	316.32	221.47	236.90	246.05	234.81
ENSSSCG00000006083	4	400.27	271.88	264.06	312.07	144.23	259.09	224.25	209.19
ENSSSCG00000001528	7	294.79	310.56	318.48	307.94	261.55	314.39	372.93	316.29
ENSSSCG000000037236	13	300.12	295.64	315.34	303.70	328.80	337.09	399.81	355.23
ENSSSCG00000006063	4	295.15	309.94	296.10	300.40	201.72	246.78	231.63	226.71
ENSSSCG00000006501	4	299.98	312.75	286.75	299.83	284.95	270.31	398.77	318.01
ENSSSCG00000000190	5	416.62	276.00	202.65	298.42	312.52	262.27	265.03	279.94
ENSSSCG00000003088	6	186.45	322.27	381.56	296.76	121.98	241.82	152.34	172.04
ENSSSCG00000004700	1	315.49	271.75	293.39	293.54	206.94	200.77	379.12	262.28
ENSSSCG00000016078	15	360.91	219.82	264.59	281.77	248.81	181.86	238.31	222.99
ENSSSCG00000008602	3	220.75	328.68	283.70	277.71	254.32	235.65	261.34	250.44
ENSSSCG00000005688	1	68.44	363.10	400.97	277.50	1.49	24.92	90.15	38.85
ENSSSCG000000039962	3	242.77	343.94	244.87	277.19	155.70	99.73	152.84	136.09
ENSSSCG000000040470	4	269.90	282.14	278.10	276.71	334.08	311.94	401.15	349.06
ENSSSCG00000017164	12	189.56	382.23	241.71	271.17	117.68	152.53	111.27	127.16
ENSSSCG00000004875	1	98.38	229.99	477.02	268.46	69.33	64.71	134.56	89.53
ENSSSCG00000010400	14	338.11	111.13	338.83	262.69	15.60	44.14	95.30	51.68
ENSSSCG00000010627	14	135.73	338.09	302.88	258.90	70.27	106.63	94.55	90.48
ENSSSCG00000008433	3	254.38	269.36	241.40	255.05	364.87	345.08	300.96	336.97
ENSSSCG000000038880	12	263.91	234.85	266.32	255.02	271.15	258.99	267.95	266.03
ENSSSCG00000009668	14	270.29	324.78	166.58	253.88	1500.03	574.72	1302.24	1125.66
ENSSSCG00000013746	2	295.34	262.68	199.45	252.49	186.45	157.62	307.28	217.12
ENSSSCG000000039130	14	248.17	234.66	241.65	241.50	267.93	264.69	220.01	250.88
ENSSSCG00000009216	8	27.47	273.73	419.47	240.22	316.09	390.02	1935.68	880.59
ENSSSCG00000013849	2	223.20	232.09	257.01	237.43	73.22	107.96	137.99	106.39
ENSSSCG00000000274	5	230.59	239.52	235.71	235.27	242.36	247.41	296.55	262.11
ENSSSCG00000012784	X	226.12	234.24	243.05	234.47	189.36	244.75	438.26	290.79
ENSSSCG00000016859	16	143.13	210.34	341.67	231.72	6.80	104.53	80.50	63.94
ENSSSCG00000001930	7	300.33	232.37	152.51	228.40	109.63	159.84	188.06	152.51
ENSSSCG00000001701	7	255.04	216.33	208.62	226.66	258.99	182.57	215.69	219.08
ENSSSCG00000004241	1	388.58	197.09	84.15	223.27	61.94	130.70	78.22	90.29
ENSSSCG00000006719	4	163.84	345.33	146.16	218.44	0.43	25.50	54.90	26.94
ENSSSCG000000039148	12	208.11	195.95	250.23	218.09	145.53	170.86	260.71	192.37

ENSSSCG00000017202	12	240.21	238.23	167.70	215.38	282.97	221.46	241.21	248.55
ENSSSCG00000014569	9	235.84	211.24	196.38	214.49	232.72	220.53	237.09	230.12
ENSSSCG00000038549	3	160.52	367.26	109.46	212.41	50.29	68.89	50.14	56.44
ENSSSCG00000016737	18	256.82	190.40	184.77	210.66	167.50	129.09	189.85	162.15
ENSSSCG00000004789	1	306.04	161.63	162.61	210.09	33.30	91.08	61.30	61.89
ENSSSCG00000030921	9	298.04	172.36	158.85	209.75	23.64	64.04	125.78	71.15
ENSSSCG00000000849	5	276.06	190.72	161.07	209.28	189.68	135.78	202.24	175.90
ENSSSCG00000013260	2	228.31	233.70	161.90	207.97	376.87	350.45	575.45	434.26
ENSSSCG00000029652	5	170.93	240.20	208.01	206.38	262.57	194.22	272.75	243.18
ENSSSCG00000010703	14	221.43	214.80	181.12	205.78	82.06	150.69	178.00	136.92
ENSSSCG00000014336	2	185.30	313.49	116.18	204.99	32.14	21.88	19.81	24.61
ENSSSCG00000012022	13	183.04	241.18	190.70	204.97	206.22	138.05	131.48	158.58
ENSSSCG00000017591	12	224.07	204.85	177.91	202.27	159.97	181.30	222.10	187.79
ENSSSCG00000006395	4	284.50	248.44	73.46	202.13	119.80	116.80	164.11	133.57
ENSSSCG00000033262	2	168.11	238.41	197.03	201.18	576.63	346.96	246.56	390.05
ENSSSCG00000008061	3	209.24	191.81	202.48	201.17	186.12	171.77	225.53	194.47
ENSSSCG00000000576	5	209.07	198.08	195.21	200.79	241.94	289.88	360.91	297.58
ENSSSCG00000016522	18	178.55	147.75	273.90	200.06	26.88	70.67	58.06	51.87
ENSSSCG00000025281	3	231.06	185.55	180.93	199.18	109.84	125.92	143.56	126.44
ENSSSCG00000012961	2	212.48	175.65	202.29	196.81	253.87	167.89	227.25	216.34
ENSSSCG00000017957	12	235.00	235.10	120.26	196.79	90.93	90.01	96.84	92.59
ENSSSCG00000003691	6	197.20	182.52	208.42	196.05	166.68	150.32	195.70	170.90
ENSSSCG00000014022	2	249.87	181.42	154.05	195.11	168.88	163.73	95.24	142.62
ENSSSCG00000017024	16	310.02	125.33	148.68	194.68	113.51	140.85	70.09	108.15
ENSSSCG00000002829	6	141.28	282.83	157.56	193.89	60.64	239.04	131.53	143.74
ENSSSCG00000005601	1	245.58	210.11	125.79	193.82	135.99	108.52	196.22	146.91
ENSSSCG00000031321	5	125.59	434.46	21.33	193.79	23.43	5.26	6.46	11.72
ENSSSCG00000013181	2	176.55	186.57	217.83	193.65	226.72	154.76	169.34	183.60
ENSSSCG00000027746	8	210.49	181.46	187.67	193.21	199.45	175.04	206.25	193.58
ENSSSCG00000034448	6	179.74	202.59	195.26	192.53	186.83	223.70	258.69	223.08
ENSSSCG00000017212	12	201.54	179.63	195.89	192.35	164.05	202.61	193.29	186.65
ENSSSCG00000035419	18	131.59	201.98	240.18	191.25	94.02	164.86	116.17	125.02
ENSSSCG00000009146	8	199.92	185.79	188.02	191.24	218.83	237.17	187.13	214.38
ENSSSCG00000037508	1	176.26	252.16	142.84	190.42	189.38	252.68	204.39	215.48
ENSSSCG00000012625	X	173.41	158.42	237.35	189.73	104.53	84.71	137.27	108.84
ENSSSCG00000000010	5	139.11	217.73	210.08	188.97	248.85	206.02	283.29	246.05
ENSSSCG00000000104	5	181.98	174.74	210.09	188.93	202.55	198.21	155.27	185.35
ENSSSCG00000000084	5	198.68	214.54	153.47	188.89	100.85	95.19	129.63	108.56
ENSSSCG00000007085	17	154.53	170.06	232.83	185.81	505.27	163.01	165.59	277.95
ENSSSCG00000000633	5	231.43	211.27	114.56	185.75	38.56	80.62	62.10	60.42
ENSSSCG00000029160	7	150.13	199.10	202.72	183.98	181.90	112.70	149.88	148.16
ENSSSCG00000000405	5	213.58	161.49	175.25	183.44	178.41	143.67	178.98	167.02
ENSSSCG00000013046	2	172.91	176.06	198.75	182.57	186.59	156.22	213.43	185.41
ENSSSCG00000006887	4	230.19	201.41	116.08	182.56	115.47	129.00	130.34	124.94
ENSSSCG00000003046	6	155.50	171.87	218.91	182.09	141.31	150.58	218.05	169.98
ENSSSCG00000030309	7	171.04	171.94	203.07	182.02	148.19	208.34	113.95	156.82
ENSSSCG00000017259	12	224.25	211.21	108.89	181.45	155.68	126.22	133.83	138.58
ENSSSCG00000009772	14	199.83	172.82	170.03	180.89	180.38	153.26	197.90	177.18
ENSSSCG00000038359	12	211.87	187.92	142.53	180.77	135.76	114.42	144.85	131.68
ENSSSCG00000040162	3	147.11	202.46	190.11	179.89	71.10	179.41	112.89	121.13
ENSSSCG00000030241	X	134.78	260.80	142.44	179.34	37.33	77.15	79.26	64.58
ENSSSCG00000007743	3	193.33	179.90	164.21	179.15	139.68	121.98	184.28	148.65
ENSSSCG00000028512	2	201.68	311.71	20.54	177.97	11.17	5.23	9.54	8.65
ENSSSCG00000036716	15	182.16	172.75	176.43	177.11	187.07	179.70	214.50	193.76
ENSSSCG00000011274	13	195.67	160.87	170.08	175.54	165.17	174.85	193.21	177.74
ENSSSCG00000013736	2	169.88	206.05	147.15	174.36	49.27	55.37	101.12	68.59

ENSSSCG00000024437	13	167.25	165.87	189.04	174.05	91.71	105.13	139.29	112.04
ENSSSCG00000011727	13	15.39	329.64	177.04	174.02	2.75	8.29	22.64	11.23
ENSSSCG00000022760	10	213.02	166.60	141.76	173.79	182.21	163.31	171.20	172.24
ENSSSCG00000011351	13	182.84	162.87	174.88	173.53	177.14	170.27	203.76	183.72
ENSSSCG00000006062	4	191.28	192.55	136.29	173.37	151.87	135.68	164.07	150.54
ENSSSCG00000015545	9	142.02	161.16	215.86	173.01	72.54	132.41	139.26	114.73
ENSSSCG00000002627	7	195.50	127.89	193.11	172.17	16.04	73.93	87.83	59.27
ENSSSCG00000031262	4	173.29	143.12	199.45	171.95	296.65	289.97	183.51	256.71
ENSSSCG00000038594	17	188.23	293.90	30.06	170.73	22.46	12.91	28.14	21.17
ENSSSCG00000011867	13	205.65	142.40	162.96	170.34	982.17	115.38	122.17	406.57
ENSSSCG00000033368	5	182.86	158.33	169.42	170.20	172.77	170.41	205.88	183.02
ENSSSCG00000012534	X	195.65	155.03	159.62	170.10	137.72	126.74	150.24	138.23
ENSSSCG00000004192	1	301.27	70.65	137.20	169.71	68.47	76.37	60.18	68.34
ENSSSCG00000009851	14	168.68	156.56	182.39	169.21	162.30	162.70	167.94	164.31
ENSSSCG00000006624	4	207.08	125.15	175.08	169.11	22.90	143.15	62.87	76.31
ENSSSCG00000021084	4	180.98	136.37	184.18	167.18	112.10	148.38	270.12	176.87
ENSSSCG00000035392	15	290.64	116.81	88.36	165.27	58.41	75.65	131.39	88.48
ENSSSCG00000014156	2	140.16	212.83	130.04	161.01	50.48	79.28	50.69	60.15
ENSSSCG00000003914	6	203.84	127.50	148.44	159.93	202.82	122.23	184.66	169.91
ENSSSCG00000006954	4	181.64	151.25	146.59	159.83	187.80	176.69	193.03	185.84
ENSSSCG00000037697	5	120.50	106.75	251.31	159.52	168.34	193.95	193.51	185.27
ENSSSCG00000011101	10	156.12	148.23	170.49	158.28	118.25	103.25	98.32	106.61
ENSSSCG00000033733	13	192.02	146.47	133.94	157.48	168.89	148.77	162.41	160.02
ENSSSCG00000034072	5	193.11	161.09	118.12	157.44	145.33	111.83	160.28	139.14
ENSSSCG00000015324	9	127.62	141.15	198.70	155.82	249.70	203.27	155.36	202.78
ENSSSCG00000015322	9	110.12	153.18	203.63	155.64	251.40	158.08	255.97	221.82
ENSSSCG00000040879	13	173.92	150.80	141.47	155.40	153.61	132.36	102.12	129.36
ENSSSCG00000032165	14	176.22	142.73	141.65	153.53	119.33	134.37	138.75	130.82
ENSSSCG00000036956	12	91.44	356.32	11.84	153.20	6.16	7.64	8.76	7.52
ENSSSCG00000022506	13	141.95	175.84	141.74	153.18	152.86	122.61	126.47	133.98
ENSSSCG00000015973	15	168.89	138.29	150.21	152.46	122.26	108.05	139.67	123.33
ENSSSCG00000035684	7	172.75	136.83	147.03	152.20	152.17	138.46	206.21	165.62
ENSSSCG00000008638	3	139.62	160.45	155.13	151.74	98.15	97.19	113.86	103.07
ENSSSCG00000009327	11	169.92	126.64	157.79	151.45	143.41	152.27	121.42	139.03
ENSSSCG00000037241	10	77.45	261.09	115.73	151.42	59.21	27.26	24.41	36.96
ENSSSCG00000033727	13	115.74	136.41	201.37	151.17	127.27	90.26	176.15	131.22
ENSSSCG00000031888	14	173.21	221.85	54.26	149.77	48.15	77.29	49.91	58.45
ENSSSCG00000000522	5	144.09	152.67	152.25	149.67	144.68	190.87	145.74	160.43
ENSSSCG00000000038	5	139.14	147.27	162.53	149.65	50.47	60.85	74.59	61.97
ENSSSCG00000016535	18	99.17	160.79	187.90	149.28	152.80	115.96	48.71	105.82
ENSSSCG00000029034	6	156.43	152.39	138.08	148.97	129.17	137.60	144.98	137.25
ENSSSCG00000016554	18	274.40	141.49	30.73	148.88	6.06	20.55	19.46	15.36
ENSSSCG00000039314	4	136.73	210.37	97.80	148.30	114.11	104.64	96.12	104.96
ENSSSCG00000012042	13	161.99	128.63	152.73	147.78	172.86	151.13	190.73	171.57
ENSSSCG00000032367	4	125.67	241.84	72.78	146.76	28.62	55.98	35.54	40.05
ENSSSCG00000008056	3	129.74	154.95	153.13	145.94	100.89	105.76	115.46	107.37
ENSSSCG00000035622	8	161.51	156.21	119.73	145.82	109.01	102.95	107.85	106.61
ENSSSCG00000014071	2	150.95	151.89	134.49	145.78	180.19	166.43	155.50	167.37
ENSSSCG00000026257	6	234.39	98.50	102.58	145.16	42.47	131.75	111.55	95.25
ENSSSCG00000034313	6	128.81	104.67	201.19	144.89	170.73	99.32	133.24	134.43
ENSSSCG00000004414	1	137.25	156.61	138.75	144.20	119.05	111.10	119.37	116.51
ENSSSCG00000000660	5	167.22	154.05	109.46	143.58	9.68	77.69	65.07	50.81
ENSSSCG00000031023	1	117.53	130.48	181.88	143.30	2.70	17.72	24.49	14.97
ENSSSCG00000008980	8	123.59	129.59	175.70	142.96	49.19	98.38	83.71	77.09
ENSSSCG00000006359	4	63.73	358.80	6.23	142.92	0.53	1.02	2.82	1.46
ENSSSCG00000025768	7	133.66	116.45	178.00	142.70	350.96	288.94	346.93	328.94

ENSSSCG00000014016	2	126.89	140.12	161.09	142.70	93.39	133.69	119.05	115.38
ENSSSCG00000006237	4	126.53	177.96	123.59	142.69	78.09	129.33	100.21	102.54
ENSSSCG00000002963	6	151.21	137.94	135.82	141.66	128.56	138.62	151.35	139.51
ENSSSCG00000016267	15	112.02	167.37	143.92	141.10	109.27	59.49	122.45	97.07
ENSSSCG00000004058	1	93.75	161.38	167.29	140.81	162.22	114.41	207.40	161.35
ENSSSCG00000001868	7	147.01	135.32	139.98	140.77	122.64	136.36	130.92	129.97
ENSSSCG00000039894	Y	121.23	169.03	131.57	140.61	73.65	118.09	143.29	111.67
ENSSSCG00000002366	7	166.09	121.86	132.62	140.19	47.49	102.14	75.99	75.21
ENSSSCG00000008540	3	120.04	177.00	122.89	139.98	127.71	104.40	100.95	111.02
ENSSSCG00000022080	13	131.76	150.19	137.97	139.97	82.62	82.80	113.68	93.03
ENSSSCG00000021880	6	137.98	147.52	134.03	139.84	45.76	145.76	66.79	86.10
ENSSSCG00000012583	X	123.40	255.01	40.30	139.57	11.24	17.79	13.92	14.32
ENSSSCG00000001769	7	144.75	128.56	142.90	138.74	141.89	135.54	150.67	142.70
ENSSSCG000000027907	2	150.33	135.07	128.53	137.98	107.15	108.09	137.67	117.64
ENSSSCG00000016075	15	135.68	137.84	139.94	137.82	136.57	170.29	101.05	135.97
ENSSSCG00000039854	4	61.66	277.66	72.62	137.31	1.55	44.05	13.66	19.75
ENSSSCG00000005316	1	100.83	134.01	176.78	137.21	611.22	36.81	83.41	243.81
ENSSSCG00000013906	2	140.48	136.67	134.06	137.07	116.68	126.86	155.42	132.98
ENSSSCG00000003187	6	137.16	131.71	140.26	136.38	122.36	149.30	188.72	153.46
ENSSSCG00000000645	5	144.85	157.60	106.57	136.34	55.37	83.62	73.99	70.99
ENSSSCG00000015056	9	220.75	106.10	81.19	136.01	52.55	67.48	93.99	71.34
ENSSSCG00000004499	1	143.58	124.21	138.93	135.57	124.73	105.08	144.66	124.82
ENSSSCG00000011399	13	130.48	137.65	137.77	135.30	123.34	120.33	135.85	126.50
ENSSSCG00000021890	6	143.61	133.06	128.40	135.02	97.86	103.21	115.37	105.48
ENSSSCG00000015337	9	146.68	123.35	134.93	134.98	116.25	120.44	115.45	117.38
ENSSSCG00000034993	2	83.02	165.93	154.72	134.56	51.74	84.35	73.09	69.72
ENSSSCG00000038628	2	142.56	129.10	130.84	134.17	156.38	125.13	124.71	135.41
ENSSSCG00000002449	7	91.82	94.72	214.98	133.84	66.16	78.70	106.99	83.95
ENSSSCG00000024791	2	117.85	122.55	160.12	133.51	217.77	227.07	280.96	241.93
ENSSSCG00000005029	1	114.56	129.95	153.75	132.75	125.71	144.12	135.23	135.02
ENSSSCG00000003520	6	136.76	135.02	126.12	132.63	114.54	122.02	148.27	128.28
ENSSSCG00000004570	1	144.80	105.36	147.15	132.44	442.46	73.35	117.45	211.08
ENSSSCG00000039514	6	165.37	155.34	70.86	130.52	49.95	117.41	55.82	74.39
ENSSSCG00000012772	X	122.65	123.40	145.28	130.44	98.21	78.45	108.11	94.93
ENSSSCG000000027130	3	136.97	208.28	43.99	129.75	12.83	18.52	23.09	18.15
ENSSSCG00000016998	16	139.69	121.90	127.10	129.56	127.16	143.66	118.73	129.85
ENSSSCG00000009545	11	135.35	127.45	124.50	129.10	39.13	55.38	86.51	60.34
ENSSSCG00000006791	4	337.13	16.03	32.64	128.60	3957.80	3498.06	12802.90	6752.92
ENSSSCG00000027357	13	92.75	174.81	118.17	128.58	86.63	113.05	99.19	99.62
ENSSSCG00000033844	3	78.78	187.54	119.28	128.53	3.81	39.12	19.20	20.71
ENSSSCG00000016185	15	118.74	137.89	127.19	127.94	91.38	101.48	115.28	102.71
ENSSSCG00000013992	2	137.85	128.04	117.29	127.73	143.36	117.84	169.49	143.56
ENSSSCG00000012597	X	153.76	99.91	129.22	127.63	42.01	165.29	83.59	96.96
ENSSSCG00000001910	7	105.46	150.67	124.36	126.83	18.89	72.40	63.50	51.59
ENSSSCG00000034131	7	156.26	116.40	107.57	126.74	66.35	102.05	117.69	95.36
ENSSSCG00000025966	3	136.38	130.73	113.02	126.71	116.72	111.44	126.59	118.25
ENSSSCG00000010203	14	148.08	137.95	93.95	126.66	153.41	134.34	148.44	145.40
ENSSSCG00000002704	6	134.55	130.46	114.81	126.61	123.38	135.93	139.42	132.91
ENSSSCG00000030996	14	147.80	143.71	87.76	126.42	118.41	94.45	142.48	118.45
ENSSSCG00000002039	7	97.63	173.08	106.50	125.74	60.49	172.68	101.68	111.62
ENSSSCG00000008987	8	131.03	126.78	118.66	125.49	121.26	149.09	143.93	138.09
ENSSSCG00000020790	15	111.94	123.32	140.58	125.28	103.73	107.77	157.64	123.05
ENSSSCG00000000071	5	123.98	120.04	130.97	125.00	134.62	120.37	120.28	125.09
ENSSSCG00000034937	6	117.30	127.21	128.52	124.34	84.76	108.93	110.33	101.34
ENSSSCG00000038947	7	129.86	130.07	113.06	124.33	130.42	127.12	158.50	138.68
ENSSSCG00000002296	7	69.92	133.78	167.01	123.57	10.62	25.31	43.78	26.57

ENSSSCG00000010591	14	273.72	2.69	93.89	123.43	0.10	0.49	7.90	2.83
ENSSSCG00000039243	2	119.92	133.91	115.15	122.99	190.09	119.75	138.81	149.55
ENSSSCG00000016991	16	64.00	231.46	72.74	122.73	86.44	34.32	37.33	52.70
ENSSSCG00000017752	12	117.58	126.99	122.77	122.44	176.14	188.25	128.62	164.33
ENSSSCG00000000089	5	137.73	125.97	102.19	121.96	117.65	109.98	127.46	118.36
ENSSSCG00000038989	12	144.27	118.86	102.75	121.96	136.76	108.47	140.69	128.64
ENSSSCG00000002873	6	66.89	110.45	187.26	121.53	69.37	65.64	95.48	76.83
ENSSSCG00000022300	3	140.97	164.71	58.77	121.48	89.89	85.39	57.77	77.68
ENSSSCG00000032330	9	59.01	153.81	149.15	120.66	42.45	82.07	72.65	65.72
ENSSSCG00000035446	12	136.22	118.49	106.71	120.47	97.40	75.30	104.56	92.42
ENSSSCG00000034086	10	225.11	77.70	57.19	120.00	31.77	35.29	46.32	37.79
ENSSSCG00000004237	1	93.83	124.28	139.34	119.15	108.39	130.11	91.46	109.98
ENSSSCG00000025295	2	104.29	121.95	131.04	119.09	95.89	104.61	127.70	109.40
ENSSSCG00000007522	17	50.22	147.58	159.20	119.00	51.76	98.93	63.22	71.30
ENSSSCG00000033299	X	111.82	123.48	121.46	118.92	311.64	62.34	73.79	149.26
ENSSSCG00000035080	12	125.76	113.68	116.34	118.59	134.65	122.00	114.97	123.87
ENSSSCG00000009422	11	80.98	216.36	57.84	118.39	74.98	59.17	58.44	64.20
ENSSSCG00000010682	14	92.65	103.83	157.65	118.05	70.96	70.81	93.35	78.37
ENSSSCG00000002623	7	49.38	106.91	196.48	117.59	3.15	12.45	71.75	29.12
ENSSSCG00000001400	7	147.17	100.69	104.77	117.54	113.44	103.98	99.80	105.74
ENSSSCG00000035090	3	115.67	118.45	117.92	117.34	97.85	97.54	110.45	101.94
ENSSSCG00000040777	6	126.20	109.65	115.64	117.16	143.51	143.11	145.11	143.91
ENSSSCG00000024267	6	89.47	124.31	136.06	116.61	100.97	102.58	122.45	108.67
ENSSSCG00000001453	7	76.61	159.20	112.14	115.98	404.42	280.94	186.02	290.46
ENSSSCG00000003653	6	121.65	104.93	119.72	115.43	112.10	118.07	150.74	126.97
ENSSSCG00000023903	8	121.67	99.73	123.56	114.99	122.85	86.47	132.12	113.81
ENSSSCG00000010877	10	129.76	120.62	90.93	113.77	100.07	103.71	86.63	96.80
ENSSSCG00000035297	7	97.64	41.49	200.89	113.34	375.72	68.26	167.66	203.88
ENSSSCG00000010320	14	101.05	113.54	124.89	113.16	71.14	64.52	88.96	74.87
ENSSSCG00000020976	10	115.07	112.99	111.42	113.16	315.25	83.69	86.43	161.79
ENSSSCG00000039647	9	138.80	101.49	98.65	112.98	90.71	102.04	124.08	105.61
ENSSSCG00000009555	11	99.93	121.74	117.14	112.93	87.31	100.86	100.81	96.33
ENSSSCG000000036114	13	115.35	109.99	109.78	111.70	55.12	89.64	70.28	71.68
ENSSSCG000000031249	13	124.37	121.89	88.36	111.54	64.95	105.16	79.15	83.09
ENSSSCG000000036592	12	144.48	101.34	87.92	111.25	98.63	89.20	75.52	87.79
ENSSSCG00000022725	7	145.48	96.01	91.80	111.10	64.45	83.13	82.77	76.78
ENSSSCG00000013401	2	158.76	70.65	102.96	110.79	12.84	49.00	84.05	48.63
ENSSSCG00000026606	2	116.91	111.44	103.43	110.59	117.03	130.27	107.34	118.21
ENSSSCG00000014020	2	121.17	105.24	105.10	110.50	133.58	100.69	126.15	120.14
ENSSSCG00000023304	3	116.92	108.76	105.62	110.43	68.42	105.38	64.26	79.35
ENSSSCG00000006527	4	107.70	110.92	110.02	109.55	108.32	98.43	141.78	116.17
ENSSSCG00000032527	3	98.83	200.63	26.67	108.71	13.98	33.60	24.73	24.10
ENSSSCG00000005055	1	110.23	115.17	100.51	108.63	249.15	213.19	268.93	243.76
ENSSSCG00000032265	2	137.16	100.73	87.19	108.36	61.54	86.98	82.22	76.91
ENSSSCG00000011137	10	115.64	107.89	101.36	108.30	52.36	61.25	86.61	66.74
ENSSSCG00000016792	16	240.91	50.41	33.48	108.27	15.53	28.96	30.26	24.92
ENSSSCG00000011747	13	74.59	123.74	126.43	108.25	4.98	69.56	44.22	39.59
ENSSSCG00000040494	5	117.94	104.88	100.46	107.76	107.16	97.32	116.31	106.93
ENSSSCG00000016892	16	53.12	229.97	39.30	107.46	1.06	34.35	12.60	16.00
ENSSSCG00000011171	10	92.18	111.36	118.65	107.40	109.63	80.69	113.95	101.42
ENSSSCG00000006016	4	116.40	105.94	99.25	107.20	142.87	133.54	130.46	135.63
ENSSSCG00000015560	9	84.81	86.35	150.38	107.18	58.48	73.39	87.58	73.15
ENSSSCG00000023562	9	122.61	99.77	97.71	106.70	97.49	109.25	108.32	105.02
ENSSSCG00000001549	7	53.68	126.91	139.02	106.53	16.56	29.29	27.42	24.42
ENSSSCG00000000119	5	105.52	106.91	106.33	106.25	90.88	107.95	119.31	106.05
ENSSSCG00000023245	X	127.76	87.93	102.45	106.04	68.89	95.11	98.54	87.52

ENSSSCG00000000808	5	83.16	123.12	110.85	105.71	38.85	67.58	40.75	49.06
ENSSSCG00000028322	9	86.49	197.82	32.46	105.59	26.74	20.19	22.16	23.03
ENSSSCG00000011000	10	98.04	138.68	79.35	105.36	74.30	57.97	51.62	61.29
ENSSSCG00000003505	6	105.08	102.42	107.20	104.90	80.14	80.16	129.68	96.66
ENSSSCG00000037360	17	85.90	120.17	108.61	104.90	137.76	100.62	102.39	113.59
ENSSSCG00000016581	18	122.64	94.11	97.32	104.69	60.37	63.98	79.31	67.89
ENSSSCG00000028423	6	115.56	95.12	103.28	104.66	98.42	108.93	99.11	102.15
ENSSSCG00000027121	3	133.21	127.20	53.51	104.64	121.47	66.00	155.11	114.20
ENSSSCG00000028227	17	98.81	88.80	125.01	104.21	63.31	52.02	85.38	66.90
ENSSSCG00000014921	9	102.38	155.01	54.40	103.93	22.67	36.94	53.30	37.64
ENSSSCG00000012252	X	102.84	113.22	95.54	103.87	89.55	81.88	66.64	79.36
ENSSSCG00000015384	9	94.99	110.40	106.21	103.87	91.23	106.89	110.96	103.03
ENSSSCG00000035790	5	104.39	119.70	87.50	103.86	116.64	67.27	76.06	86.65
ENSSSCG00000028536	2	81.05	150.20	79.45	103.57	23.37	50.29	66.29	46.65
ENSSSCG00000037803	1	129.80	84.51	95.62	103.31	49.01	123.03	76.17	82.74
ENSSSCG00000016128	15	102.00	111.20	96.64	103.28	112.87	118.92	134.53	122.11
ENSSSCG00000003903	6	101.58	100.18	107.96	103.24	129.00	110.72	117.50	119.07
ENSSSCG00000012403	X	65.92	108.06	134.96	102.98	97.99	114.61	75.00	95.87
ENSSSCG00000036711	2	103.27	114.18	91.37	102.94	81.97	69.30	85.36	78.88
ENSSSCG00000033019	1	103.65	102.79	101.37	102.60	92.70	99.21	114.35	102.09
ENSSSCG00000013602	2	127.56	92.28	87.09	102.31	85.33	75.53	73.26	78.04
ENSSSCG00000035690	6	126.72	109.62	70.25	102.20	78.90	70.46	56.23	68.53
ENSSSCG00000032580	5	96.87	75.18	132.91	101.65	99.68	141.20	150.61	130.49
ENSSSCG00000002452	7	71.61	134.42	98.71	101.58	56.95	115.77	113.69	95.47
ENSSSCG00000006033	4	93.32	107.34	103.84	101.50	111.81	164.47	97.82	124.70
ENSSSCG00000013421	2	127.71	101.14	75.54	101.46	94.61	78.09	87.16	86.62
ENSSSCG00000034227	1	106.25	101.65	96.23	101.38	95.21	103.34	119.57	106.04
ENSSSCG00000034942	15	111.90	104.71	87.37	101.33	0.50	2.11	2.33	1.65
ENSSSCG00000006556	4	145.36	89.55	68.44	101.12	73.79	100.51	140.74	105.01
ENSSSCG00000036307	9	107.65	138.56	54.87	100.36	16.69	46.39	39.76	34.28
ENSSSCG00000008692	8	50.56	103.57	146.74	100.29	41.63	48.00	71.19	53.61
ENSSSCG00000006752	4	97.13	94.38	108.81	100.10	102.95	106.87	77.10	95.64
ENSSSCG00000009889	14	52.78	127.16	120.10	100.01	42.85	69.86	61.58	58.10
ENSSSCG00000035945	9	107.55	110.25	82.05	99.95	13.03	22.27	20.47	18.59
ENSSSCG00000026761	13	81.51	95.03	121.90	99.48	62.98	60.85	61.08	61.64
ENSSSCG00000009222	8	66.22	160.35	71.25	99.28	278.06	167.07	68.30	171.14
ENSSSCG00000005373	1	96.57	88.29	112.94	99.27	88.53	95.40	99.75	94.56
ENSSSCG00000003493	6	113.92	78.24	104.89	99.01	90.25	87.58	102.42	93.42
ENSSSCG00000015710	15	104.36	110.33	82.33	99.01	53.64	62.68	60.17	58.83
ENSSSCG00000009759	14	188.68	46.63	61.64	98.98	19.11	27.91	43.45	30.16
ENSSSCG00000031640	6	58.56	133.85	104.30	98.90	64.47	154.68	58.84	92.67
ENSSSCG00000001834	7	110.33	88.99	96.71	98.68	64.20	52.48	46.90	54.53
ENSSSCG00000002383	7	80.84	180.09	34.17	98.37	53.97	8.23	25.87	29.36
ENSSSCG00000022398	9	107.46	90.05	96.95	98.15	106.91	100.89	88.36	98.72
ENSSSCG00000001229	7	76.36	128.66	89.24	98.09	675.92	388.91	406.45	490.43
ENSSSCG00000005096	1	161.08	72.98	59.11	97.72	41.07	54.96	46.65	47.56
ENSSSCG00000031380	6	175.37	74.05	43.74	97.72	42.32	64.17	67.44	57.97
ENSSSCG00000016714	18	65.51	197.38	30.14	97.68	31.02	25.33	27.61	27.99
ENSSSCG00000006740	4	100.39	107.83	84.50	97.58	280.00	156.03	334.38	256.80
ENSSSCG00000005656	1	117.34	88.90	85.34	97.20	98.31	85.37	79.48	87.72
ENSSSCG00000015988	15	121.16	86.67	83.01	96.95	99.32	88.83	77.17	88.44
ENSSSCG00000017929	12	86.96	96.41	105.24	96.20	61.48	71.07	88.15	73.57
ENSSSCG00000004385	1	87.26	92.62	107.54	95.81	79.53	82.46	71.55	77.85
ENSSSCG00000028414	6	116.33	79.27	91.70	95.77	90.60	88.74	118.65	99.33
ENSSSCG00000009464	11	81.80	123.28	82.10	95.73	22.35	30.15	37.94	30.15
ENSSSCG00000012699	X	103.44	79.34	103.94	95.58	129.14	84.08	59.68	90.96

ENSSSCG00000003132	6	88.57	88.66	109.23	95.49	68.04	72.19	97.19	79.14
ENSSSCG00000003332	6	89.58	95.80	100.03	95.14	77.64	82.78	122.17	94.19
ENSSSCG000000031866	5	120.56	92.44	72.22	95.07	122.18	64.11	68.20	84.83
ENSSSCG000000010517	14	93.44	90.70	100.85	95.00	86.44	82.30	94.43	87.72
ENSSSCG00000003702	6	74.66	89.45	120.62	94.91	20.88	51.82	55.73	42.81
ENSSSCG000000017525	12	90.03	99.95	94.68	94.89	109.77	124.52	145.40	126.56
ENSSSCG00000007362	17	119.40	92.96	71.84	94.73	81.80	84.46	75.63	80.63
ENSSSCG000000033854	5	74.30	99.00	110.46	94.58	53.44	84.68	94.34	77.48
ENSSSCG00000004480	1	122.52	67.03	94.19	94.58	94.01	82.68	125.05	100.58
ENSSSCG00000009150	8	53.00	59.08	171.64	94.58	68.08	60.84	153.26	94.06
ENSSSCG000000032213	15	107.68	89.13	85.19	94.00	73.67	75.62	83.54	77.61
ENSSSCG000000034570	6	86.73	54.08	141.19	94.00	247.44	123.39	191.59	187.47
ENSSSCG000000013427	2	103.55	85.64	92.53	93.91	167.66	169.05	133.85	156.85
ENSSSCG000000011110	10	166.89	60.88	53.49	93.76	64.23	50.22	49.81	54.75
ENSSSCG000000024149	7	50.90	131.11	99.04	93.69	22.82	29.52	38.49	30.28
ENSSSCG00000001038	7	90.17	82.16	108.11	93.48	136.38	104.58	151.77	130.91
ENSSSCG000000014031	2	124.27	96.74	58.69	93.23	59.76	55.28	60.19	58.41
ENSSSCG000000028304	7	74.10	82.79	120.30	92.40	92.37	61.52	61.51	71.80
ENSSSCG000000006848	4	52.70	101.39	123.07	92.39	16.50	22.47	39.54	26.17
ENSSSCG000000012604	X	78.25	100.82	97.57	92.21	76.60	105.51	104.31	95.47
ENSSSCG000000025941	1	106.91	114.11	55.15	92.06	62.38	66.24	77.36	68.66
ENSSSCG000000037102	2	83.49	132.23	60.00	91.91	19.89	20.10	28.68	22.89
ENSSSCG000000016077	15	112.59	82.26	80.68	91.84	99.83	59.40	63.02	74.08
ENSSSCG000000012840	2	78.28	77.89	118.65	91.61	54.13	37.75	77.70	56.53
ENSSSCG000000004142	1	75.89	105.11	93.61	91.54	69.52	61.70	45.92	59.05
ENSSSCG000000024550	14	89.34	77.86	106.80	91.33	86.03	69.18	93.00	82.74
ENSSSCG000000029352	13	80.62	137.09	55.35	91.02	57.99	54.50	30.35	47.61
ENSSSCG000000006335	4	79.46	182.43	11.12	91.00	6.33	14.99	9.74	10.35
ENSSSCG000000001571	7	86.63	100.93	85.34	90.97	82.09	77.45	88.58	82.71
ENSSSCG000000027331	15	62.07	128.18	82.60	90.95	28.02	62.60	79.36	56.66
ENSSSCG000000028431	2	47.36	82.53	142.46	90.78	28.89	36.97	43.82	36.56
ENSSSCG000000014435	2	100.89	107.53	63.78	90.73	71.30	62.58	69.36	67.74
ENSSSCG000000016018	15	72.65	89.13	109.84	90.54	4.73	34.72	32.18	23.87
ENSSSCG000000011565	13	79.69	75.50	116.42	90.54	73.03	77.49	109.63	86.72
ENSSSCG000000027257	1	95.77	81.86	93.52	90.38	85.00	72.09	93.63	83.58
ENSSSCG000000012026	13	30.27	199.96	40.66	90.30	24.90	19.62	32.46	25.66
ENSSSCG000000030125	4	92.95	88.10	89.71	90.25	72.25	69.95	103.65	81.95
ENSSSCG000000012440	X	78.38	77.04	114.97	90.13	64.98	69.04	82.25	72.09
ENSSSCG000000030798	3	137.91	76.29	55.95	90.05	104.16	68.15	57.64	76.65
ENSSSCG000000025483	3	96.42	73.89	97.84	89.38	12.62	32.88	42.90	29.47
ENSSSCG000000016370	15	93.79	89.71	84.01	89.17	80.75	72.51	81.92	78.39
ENSSSCG000000011676	13	68.45	118.58	80.41	89.15	77.34	59.64	92.85	76.61
ENSSSCG000000002050	7	91.72	70.14	105.54	89.13	77.18	68.79	113.44	86.47
ENSSSCG000000023522	17	55.16	81.88	130.28	89.11	19.23	31.38	55.75	35.45
ENSSSCG000000002023	7	114.02	66.97	86.15	89.05	77.46	93.07	73.88	81.47
ENSSSCG000000023105	10	78.07	157.54	31.39	89.00	39.16	52.68	32.63	41.49
ENSSSCG000000012766	X	91.67	82.22	93.10	88.99	34.69	48.46	83.91	55.68
ENSSSCG000000011893	13	114.70	77.11	74.29	88.70	78.10	63.13	104.02	81.75
ENSSSCG000000008557	3	127.61	74.88	62.66	88.38	56.10	52.45	51.19	53.25
ENSSSCG000000013318	2	94.50	87.39	83.09	88.33	43.27	62.94	97.18	67.80
ENSSSCG000000010437	14	72.31	93.55	98.72	88.19	2.03	33.14	23.13	19.43
ENSSSCG000000007435	17	55.58	82.30	126.68	88.19	23.44	54.48	29.58	35.83
ENSSSCG000000027072	6	84.21	73.93	106.30	88.15	76.37	69.44	83.83	76.54
ENSSSCG000000032166	12	96.71	79.48	87.39	87.86	82.91	79.97	103.65	88.84
ENSSSCG000000014036	2	96.26	78.58	88.60	87.81	59.11	64.01	91.51	71.54
ENSSSCG000000030857	6	92.98	93.29	76.47	87.58	57.84	82.18	45.23	61.75

ENSSSCG00000008701	8	82.51	88.80	90.12	87.14	68.12	66.70	92.13	75.65
ENSSSCG00000037821	4	124.61	68.96	67.79	87.12	28.27	78.11	36.38	47.59
ENSSSCG00000030268	1	91.35	71.63	98.08	87.02	45.58	56.36	47.22	49.72
ENSSSCG00000040710	1	95.26	82.67	80.53	86.15	59.44	53.45	89.64	67.51
ENSSSCG00000000810	5	70.49	64.30	122.54	85.78	11.33	12.83	46.97	23.71
ENSSSCG00000017065	16	40.42	131.26	83.98	85.22	29.34	38.55	54.19	40.69
ENSSSCG00000006487	4	105.19	80.75	69.18	85.04	71.86	59.41	76.44	69.24
ENSSSCG00000039740	2	86.05	88.15	80.82	85.00	85.26	82.89	91.23	86.46
ENSSSCG00000022925	5	76.72	153.44	24.55	84.90	19.32	15.38	18.07	17.59
ENSSSCG00000025109	6	70.62	95.75	87.45	84.61	46.67	75.26	69.65	63.86
ENSSSCG00000000406	5	107.12	80.66	65.96	84.58	143.27	97.89	107.16	116.11
ENSSSCG00000029066	10	158.86	22.40	72.17	84.47	23.62	24.81	46.28	31.57
ENSSSCG00000026414	16	87.69	77.52	88.05	84.42	59.31	78.67	132.54	90.17
ENSSSCG00000014136	2	87.54	66.18	98.70	84.14	8.00	31.53	34.70	24.74
ENSSSCG00000013863	2	77.31	82.80	92.17	84.09	106.96	96.49	105.55	103.00
ENSSSCG00000002444	7	21.05	149.61	81.44	84.04	15.78	28.15	33.04	25.66
ENSSSCG00000008247	3	79.61	76.38	95.04	83.68	89.11	78.69	108.45	92.08
ENSSSCG00000009249	8	111.03	66.69	73.21	83.64	83.17	78.70	77.81	79.90
ENSSSCG00000014850	9	86.46	76.89	85.97	83.10	78.87	71.05	91.53	80.48
ENSSSCG00000039847	5	52.16	90.46	106.54	83.06	80.09	81.42	68.08	76.53
ENSSSCG00000040012	6	95.29	70.80	82.66	82.92	63.90	54.65	74.07	64.20
ENSSSCG00000010238	14	82.80	86.06	79.72	82.86	81.83	77.13	59.53	72.83
ENSSSCG00000000058	5	95.20	85.87	67.38	82.82	84.05	78.20	83.71	81.99
ENSSSCG00000032028	5	84.14	80.37	83.86	82.79	92.54	104.70	97.82	98.36
ENSSSCG00000000492	5	17.55	29.88	200.43	82.62	16.75	9.74	13.64	13.37
ENSSSCG00000003354	6	88.73	67.60	91.49	82.61	71.47	73.15	53.59	66.07
ENSSSCG00000004870	1	47.30	56.84	142.75	82.30	40.29	43.66	73.72	52.56
ENSSSCG00000014577	9	75.14	86.47	84.96	82.19	42.95	49.82	69.12	53.96
ENSSSCG00000013366	2	75.00	93.09	77.44	81.85	71.04	65.76	84.09	73.63
ENSSSCG00000031808	11	92.90	80.73	71.85	81.83	92.53	80.75	102.91	92.06
ENSSSCG00000022820	3	74.08	83.99	86.83	81.64	134.55	112.58	175.12	140.75
ENSSSCG00000020962	12	75.37	97.94	71.39	81.57	105.38	104.79	126.37	112.18
ENSSSCG00000009821	14	78.79	79.30	86.48	81.52	60.69	75.14	94.32	76.72
ENSSSCG00000033500	6	81.47	83.85	79.07	81.46	50.70	74.79	83.50	69.66
ENSSSCG00000022447	4	127.40	76.63	40.09	81.37	13.72	20.68	21.14	18.52
ENSSSCG00000031577	1	78.92	81.78	83.10	81.27	72.56	96.95	96.83	88.78
ENSSSCG00000003514	6	78.52	81.17	83.85	81.18	35.48	49.53	48.12	44.38
ENSSSCG00000011621	13	80.60	81.71	81.09	81.14	76.55	55.08	87.14	72.92
ENSSSCG00000022236	9	49.47	98.20	95.53	81.07	86.88	111.90	157.49	118.75
ENSSSCG00000023277	X	88.83	68.05	86.08	80.99	89.01	73.17	94.05	85.41
ENSSSCG00000013029	2	89.27	77.29	76.33	80.96	85.29	67.58	75.31	76.06
ENSSSCG00000038991	4	110.91	56.82	74.47	80.73	63.57	111.64	80.27	85.16
ENSSSCG00000003261	6	86.92	71.78	83.33	80.68	101.30	68.32	104.98	91.53
ENSSSCG00000003150	6	77.96	79.88	83.67	80.50	60.37	64.38	95.19	73.31
ENSSSCG00000023604	8	68.39	98.57	74.12	80.36	45.66	53.98	57.23	52.29
ENSSSCG00000010450	14	66.05	86.42	88.08	80.18	120.94	83.52	93.80	99.42
ENSSSCG00000024823	6	97.77	46.74	95.63	80.04	38.22	41.65	57.64	45.84
ENSSSCG00000038514	7	85.29	73.03	81.23	79.85	81.44	97.85	105.58	94.96
ENSSSCG00000023380	14	78.22	75.66	85.29	79.72	82.15	67.86	79.54	76.52
ENSSSCG00000000444	5	75.97	76.03	87.16	79.72	71.79	85.89	98.53	85.40
ENSSSCG00000013302	2	40.75	80.17	118.24	79.72	60.86	65.72	46.27	57.61
ENSSSCG00000002307	7	96.20	69.16	73.47	79.61	73.73	66.10	78.04	72.62
ENSSSCG00000014184	2	79.31	73.21	86.31	79.61	33.52	53.90	57.65	48.35
ENSSSCG00000008633	3	92.69	63.53	82.21	79.48	45.27	48.79	85.07	59.71
ENSSSCG00000016186	15	68.54	99.72	69.93	79.39	62.09	54.88	64.35	60.44
ENSSSCG00000005300	1	81.46	71.00	85.40	79.29	75.09	62.32	95.10	77.51

A \geq 0.1	15609	
Total	16219	
		16455
B \geq 0.1	15906	
Total	16285	

FPKM	A	B	Overlap
\geq 1000	22	22	18
500-1000	54	50	39
100-500	345	300	
50-100	543	487	
10-50	4433	4882	
1--10	6621	6996	
0.1-1	3589	3165	
	15607	15902	

Table S2 Differentially expressed genes in ovaries between XL and XS groups

data...1.	XL13 fpkm	XL17 fpkm	XL18 fpkm	XS12 fpkm	XS15 fpkm	XS16 fpkm	XL AveFPK M	XS- AveFPK M	FC	logFC	AveExpr	t	P.Value	adj.P.Val	B
ENSSSCG00000017915	3.82	4.58	4.55	16.20	16.65	16.30	4.32	16.38	0.26	-1.92	10.35	41.23	0.0000	0.0031	5.75
ENSSSCG00000017994	4.41	0.86	0.75	46.28	43.37	46.83	2.01	45.49	0.04	-4.50	23.75	29.03	0.0000	0.0062	5.13
ENSSSCG00000010298	2.45	0.71	1.06	21.51	21.08	22.94	1.41	21.84	0.06	-3.96	11.62	28.00	0.0000	0.0062	5.05
ENSSSCG00000038825	3.00	4.28	4.19	21.31	20.00	20.97	3.82	20.76	0.18	-2.44	12.29	31.11	0.0000	0.0062	5.28
ENSSSCG00000006294	8.27	8.37	7.69	25.89	26.95	24.78	8.11	25.87	0.31	-1.67	16.99	28.30	0.0000	0.0062	5.07
ENSSSCG00000004147	1.27	0.09	0.12	18.35	16.93	16.46	0.49	17.25	0.03	-5.13	8.87	25.69	0.0000	0.0074	4.84
ENSSSCG00000040973	1.85	0.25	0.21	26.08	25.32	28.61	0.77	26.67	0.03	-5.11	13.72	24.53	0.0000	0.0074	4.72
ENSSSCG00000004413	3.66	0.15	0.63	36.66	36.60	40.17	1.48	37.81	0.04	-4.67	19.64	24.20	0.0000	0.0074	4.68
ENSSSCG00000004602	1.81	1.15	1.37	10.53	9.78	9.56	1.45	9.95	0.15	-2.78	5.70	24.15	0.0000	0.0074	4.67
ENSSSCG00000009388	1.72	0.33	0.81	20.31	18.38	21.32	0.96	20.00	0.05	-4.39	10.48	21.36	0.0000	0.0075	4.32
ENSSSCG00000016542	0.48	0.17	0.10	4.43	4.73	4.68	0.25	4.61	0.05	-4.22	2.43	22.73	0.0000	0.0075	4.50
ENSSSCG00000031086	3.22	0.53	1.19	25.65	24.40	22.77	1.65	24.27	0.07	-3.88	12.96	20.87	0.0000	0.0075	4.25
ENSSSCG00000037461	10.66	4.27	4.84	85.14	82.60	94.13	6.59	87.29	0.08	-3.73	46.94	21.50	0.0000	0.0075	4.34
ENSSSCG00000015031	2.21	0.77	0.95	16.49	15.72	14.52	1.31	15.57	0.08	-3.57	8.44	20.71	0.0000	0.0075	4.22
ENSSSCG00000026689	4.19	1.16	2.24	27.94	31.67	30.15	2.53	29.92	0.08	-3.56	16.23	21.01	0.0000	0.0075	4.27
ENSSSCG00000033546	6.84	1.26	2.64	40.28	40.41	42.84	3.58	41.17	0.09	-3.52	22.38	21.60	0.0000	0.0075	4.35
ENSSSCG00000032929	6.07	1.81	2.39	33.11	33.24	31.92	3.42	32.76	0.10	-3.26	18.09	22.53	0.0000	0.0075	4.48
ENSSSCG00000015794	2.50	1.11	1.85	17.00	16.62	18.53	1.82	17.38	0.10	-3.26	9.60	23.25	0.0000	0.0075	4.57
ENSSSCG00000034398	3.46	3.17	3.55	9.94	10.04	9.26	3.39	9.75	0.35	-1.52	6.57	22.31	0.0000	0.0075	4.45
ENSSSCG00000002817	1.44	0.11	0.18	24.21	22.04	26.64	0.58	24.30	0.02	-5.39	12.44	18.21	0.0000	0.0080	3.80
ENSSSCG00000033394	0.31	0.02	0.02	4.42	4.11	4.80	0.12	4.45	0.03	-5.20	2.28	17.67	0.0000	0.0080	3.69
ENSSSCG00000002504	3.62	0.31	0.78	54.86	46.89	56.34	1.57	52.69	0.03	-5.07	27.13	17.73	0.0000	0.0080	3.71
ENSSSCG00000000982	0.26	0.07	0.00	3.24	3.58	3.29	0.11	3.37	0.03	-4.95	1.74	18.01	0.0000	0.0080	3.76
ENSSSCG00000032827	1.06	0.07	0.13	13.15	11.51	13.43	0.42	12.70	0.03	-4.92	6.56	19.04	0.0000	0.0080	3.95
ENSSSCG00000040950	0.43	0.00	0.12	4.75	5.25	4.74	0.18	4.92	0.04	-4.74	2.55	19.98	0.0000	0.0080	4.11
ENSSSCG00000011855	0.84	0.02	0.20	8.34	8.52	9.54	0.35	8.80	0.04	-4.65	4.57	19.38	0.0000	0.0080	4.01
ENSSSCG00000011069	4.70	0.39	0.62	50.35	43.86	43.06	1.90	45.76	0.04	-4.59	23.83	17.51	0.0000	0.0080	3.66
ENSSSCG00000023393	1.11	0.13	0.16	11.23	10.61	9.64	0.47	10.49	0.04	-4.49	5.48	18.63	0.0000	0.0080	3.88
ENSSSCG00000011737	1.00	0.15	0.04	7.90	7.93	7.24	0.40	7.69	0.05	-4.27	4.05	19.51	0.0000	0.0080	4.03

ENSSSCG00000012558	2.10	0.06	0.19	14.43	14.55	15.94	0.78	14.97	0.05	-4.26	7.88	18.45	0.0000	0.0080	3.84
ENSSSCG00000011892	1.56	0.24	0.29	11.21	12.84	12.86	0.70	12.30	0.06	-4.14	6.50	17.62	0.0000	0.0080	3.68
ENSSSCG00000033381	0.75	0.42	0.26	7.97	7.90	9.16	0.48	8.34	0.06	-4.13	4.41	18.62	0.0000	0.0080	3.88
ENSSSCG00000006069	1.11	0.42	0.77	8.48	8.34	7.43	0.77	8.08	0.09	-3.40	4.42	19.27	0.0000	0.0080	3.99
ENSSSCG00000030513	1.31	0.47	0.75	9.42	8.18	8.47	0.84	8.69	0.10	-3.37	4.77	17.95	0.0000	0.0080	3.75
ENSSSCG00000028682	6.34	1.58	2.42	36.84	33.46	34.57	3.45	34.95	0.10	-3.34	19.20	19.11	0.0000	0.0080	3.96
ENSSSCG00000014196	0.80	0.32	0.52	4.08	4.36	4.16	0.55	4.20	0.13	-2.94	2.37	18.12	0.0000	0.0080	3.78
ENSSSCG00000007094	9.48	6.78	11.45	40.65	36.88	39.11	9.23	38.88	0.24	-2.07	24.06	18.32	0.0000	0.0080	3.82
ENSSSCG00000025417	7.89	6.05	8.83	28.04	27.97	30.99	7.59	29.00	0.26	-1.93	18.29	17.86	0.0000	0.0080	3.73
ENSSSCG00000010737	8.34	5.67	6.06	23.04	22.44	24.40	6.69	23.29	0.29	-1.80	14.99	17.49	0.0000	0.0080	3.66
ENSSSCG00000038080	9.03	8.29	9.17	26.75	27.16	30.11	8.83	28.01	0.32	-1.67	18.42	18.76	0.0000	0.0080	3.90
ENSSSCG00000024357	3.20	0.17	0.42	28.03	23.97	26.87	1.26	26.29	0.05	-4.38	13.78	17.33	0.0000	0.0081	3.62
ENSSSCG00000010768	3.24	0.79	1.00	22.16	19.17	21.45	1.67	20.92	0.08	-3.64	11.30	17.27	0.0000	0.0081	3.61
ENSSSCG00000033624	0.62	0.54	0.50	3.83	3.41	3.62	0.55	3.62	0.15	-2.71	2.09	17.18	0.0000	0.0081	3.59
ENSSSCG00000003336	2.10	0.07	0.22	16.35	19.35	17.64	0.80	17.78	0.04	-4.48	9.29	16.70	0.0000	0.0085	3.49
ENSSSCG00000027467	2.59	1.61	1.92	11.22	10.29	12.00	2.04	11.17	0.18	-2.45	6.61	16.66	0.0000	0.0085	3.48
ENSSSCG00000016133	0.94	0.03	0.16	11.83	9.94	12.04	0.38	11.27	0.03	-4.90	5.82	15.86	0.0000	0.0085	3.30
ENSSSCG00000017610	0.62	0.00	0.04	5.89	6.06	5.15	0.22	5.70	0.04	-4.69	2.96	15.93	0.0000	0.0085	3.31
ENSSSCG00000022305	2.40	0.29	0.78	25.29	30.27	25.72	1.16	27.10	0.04	-4.55	14.13	16.26	0.0000	0.0085	3.39
ENSSSCG00000040019	0.26	0.08	0.09	3.13	3.17	3.59	0.14	3.30	0.04	-4.53	1.72	16.11	0.0000	0.0085	3.36
ENSSSCG00000028996	9.32	2.72	3.61	66.03	72.56	79.70	5.22	72.76	0.07	-3.80	38.99	16.35	0.0000	0.0085	3.41
ENSSSCG00000008745	0.66	0.92	0.70	6.45	6.33	7.51	0.76	6.76	0.11	-3.15	3.76	15.90	0.0000	0.0085	3.31
ENSSSCG00000004608	0.52	0.34	0.52	3.43	3.63	3.21	0.46	3.42	0.13	-2.90	1.94	16.21	0.0000	0.0085	3.38
ENSSSCG00000026473	0.50	0.78	1.19	5.22	5.24	4.81	0.82	5.09	0.16	-2.63	2.96	16.13	0.0000	0.0085	3.36
ENSSSCG00000002412	1.26	1.11	1.30	4.95	5.24	4.59	1.23	4.93	0.25	-2.01	3.08	16.42	0.0000	0.0085	3.43
ENSSSCG00000011090	5.17	4.63	3.55	13.81	12.69	13.50	4.45	13.33	0.33	-1.58	8.89	16.01	0.0000	0.0085	3.33
ENSSSCG00000022512	0.54	0.57	0.91	4.22	4.32	3.84	0.67	4.13	0.16	-2.62	2.40	15.67	0.0000	0.0087	3.25
ENSSSCG00000004856	3.90	4.13	3.63	9.08	9.29	8.36	3.89	8.91	0.44	-1.20	6.40	15.64	0.0000	0.0087	3.24
ENSSSCG00000008072	0.69	1.33	1.19	10.80	9.36	9.00	1.07	9.72	0.11	-3.18	5.40	15.51	0.0000	0.0089	3.21
ENSSSCG00000004415	1.39	0.20	0.43	13.66	15.99	16.98	0.67	15.54	0.04	-4.53	8.11	15.16	0.0000	0.0091	3.12
ENSSSCG00000040714	0.36	0.21	0.14	3.18	2.78	3.07	0.24	3.01	0.08	-3.66	1.62	15.18	0.0000	0.0091	3.13
ENSSSCG00000016365	1.52	0.40	0.29	7.64	7.04	7.76	0.74	7.48	0.10	-3.34	4.11	15.34	0.0000	0.0091	3.17
ENSSSCG00000004469	2.51	0.65	1.12	11.05	11.23	10.17	1.43	10.82	0.13	-2.92	6.12	15.26	0.0000	0.0091	3.15
ENSSSCG00000033268	1.03	0.80	0.91	3.21	3.21	3.11	0.91	3.18	0.29	-1.80	2.04	15.02	0.0000	0.0093	3.09
ENSSSCG00000022739	6.47	2.42	2.51	26.66	24.53	24.23	3.80	25.14	0.15	-2.73	14.47	14.88	0.0000	0.0094	3.05

ENSSSCG00000036261	1.88	0.28	0.28	17.01	13.93	14.92	0.81	15.29	0.05	-4.24	8.05	14.69	0.0000	0.0096	3.00
ENSSSCG00000017098	8.49	3.28	3.30	42.92	43.55	50.43	5.03	45.63	0.11	-3.18	25.33	14.77	0.0000	0.0096	3.02
ENSSSCG00000034942	111.90	104.71	87.37	0.50	2.11	2.33	101.33	1.65	61.40	5.94	51.49	-14.73	0.0000	0.0096	3.01
ENSSSCG00000016030	0.23	0.00	0.07	5.40	6.73	6.71	0.10	6.28	0.02	-5.96	3.19	14.27	0.0001	0.0108	2.89
ENSSSCG00000005588	33.93	19.31	21.88	5.09	5.64	5.35	25.04	5.36	4.67	2.22	15.20	-3.90	0.0030	0.0108	-2.95
ENSSSCG00000010100	0.36	0.10	0.03	5.93	4.70	5.42	0.16	5.35	0.03	-5.06	2.76	14.17	0.0001	0.0109	2.86
ENSSSCG00000035668	0.99	0.10	0.12	8.02	8.92	9.99	0.40	8.98	0.04	-4.48	4.69	14.10	0.0001	0.0109	2.84
ENSSSCG00000016215	5.10	3.46	0.61	59.63	47.01	53.90	3.06	53.51	0.06	-4.13	28.29	14.04	0.0001	0.0109	2.82
ENSSSCG00000005272	1.96	2.23	2.61	5.57	5.42	5.75	2.27	5.58	0.41	-1.30	3.92	14.06	0.0001	0.0109	2.82
ENSSSCG00000005425	20.67	19.37	22.65	50.18	48.37	55.47	20.90	51.34	0.41	-1.30	36.12	14.04	0.0001	0.0109	2.82
ENSSSCG00000016105	0.87	0.00	0.12	9.33	7.46	8.26	0.33	8.35	0.04	-4.66	4.34	13.85	0.0001	0.0110	2.76
ENSSSCG00000002356	0.39	0.00	0.02	2.84	3.27	2.99	0.14	3.03	0.05	-4.47	1.58	13.68	0.0001	0.0110	2.71
ENSSSCG00000017158	2.56	0.19	0.33	18.99	15.62	18.64	1.03	17.75	0.06	-4.11	9.39	13.64	0.0001	0.0110	2.70
ENSSSCG00000037723	2.41	0.13	0.00	15.52	13.09	14.40	0.85	14.34	0.06	-4.08	7.59	13.71	0.0001	0.0110	2.72
ENSSSCG00000033043	1.47	0.59	1.59	10.93	10.40	12.76	1.22	11.37	0.11	-3.22	6.29	13.77	0.0001	0.0110	2.74
ENSSSCG00000012970	1.86	1.96	2.01	13.22	12.19	10.59	1.94	12.00	0.16	-2.63	6.97	13.94	0.0001	0.0110	2.79
ENSSSCG00000036964	2.38	1.61	2.57	8.64	7.65	8.79	2.19	8.36	0.26	-1.93	5.27	13.71	0.0001	0.0110	2.72
ENSSSCG00000027169	2.84	3.24	3.50	7.58	7.96	8.59	3.19	8.04	0.40	-1.33	5.62	13.79	0.0001	0.0110	2.75
ENSSSCG00000013476	0.69	0.08	0.09	4.06	3.59	3.90	0.29	3.85	0.07	-3.75	2.07	13.60	0.0001	0.0110	2.69
ENSSSCG00000010384	1.95	0.00	0.00	10.55	10.69	12.15	0.65	11.13	0.06	-4.10	5.89	13.49	0.0001	0.0113	2.66
ENSSSCG00000003814	3.51	2.55	3.27	13.15	13.99	11.54	3.11	12.89	0.24	-2.05	8.00	13.41	0.0001	0.0115	2.63
ENSSSCG00000016255	2.07	0.03	0.23	17.64	14.15	17.00	0.78	16.26	0.05	-4.39	8.52	13.26	0.0001	0.0119	2.58
ENSSSCG00000008480	14.34	8.99	10.26	79.63	78.70	96.56	11.20	84.96	0.13	-2.92	48.08	13.21	0.0001	0.0119	2.57
ENSSSCG00000028122	0.55	0.10	0.12	4.26	3.54	4.20	0.26	4.00	0.06	-3.97	2.13	13.15	0.0001	0.0120	2.55
ENSSSCG00000025266	3.50	0.17	0.39	34.93	31.74	40.89	1.35	35.85	0.04	-4.73	18.60	12.87	0.0001	0.0127	2.46
ENSSSCG00000040418	0.44	0.16	0.18	2.93	3.49	3.04	0.26	3.15	0.08	-3.58	1.71	12.94	0.0001	0.0127	2.48
ENSSSCG00000039342	3.79	1.87	2.82	13.81	13.69	16.15	2.82	14.55	0.19	-2.37	8.69	12.85	0.0001	0.0127	2.45
ENSSSCG00000007774	0.79	0.52	1.10	3.51	3.50	3.72	0.80	3.58	0.22	-2.15	2.19	12.90	0.0001	0.0127	2.47
ENSSSCG00000011192	5.82	4.44	5.45	10.49	10.51	10.85	5.24	10.62	0.49	-1.02	7.93	12.85	0.0001	0.0127	2.45
ENSSSCG00000011738	0.54	0.00	0.02	5.85	4.62	5.53	0.19	5.33	0.04	-4.82	2.76	12.78	0.0001	0.0127	2.43
ENSSSCG00000037478	2.13	0.33	0.33	16.23	13.10	16.17	0.93	15.17	0.06	-4.03	8.05	12.77	0.0001	0.0127	2.43
ENSSSCG00000004302	1.95	0.08	0.15	10.86	9.55	11.45	0.72	10.62	0.07	-3.87	5.67	12.68	0.0001	0.0128	2.40
ENSSSCG00000011423	0.72	0.55	0.58	4.00	3.40	4.15	0.62	3.85	0.16	-2.64	2.23	12.69	0.0001	0.0128	2.40
ENSSSCG00000017884	3.18	0.19	0.33	48.05	39.11	51.60	1.23	46.25	0.03	-5.23	23.74	12.64	0.0001	0.0128	2.38
ENSSSCG00000038684	0.53	0.05	0.16	8.83	6.78	7.48	0.25	7.70	0.03	-4.95	3.97	12.62	0.0001	0.0128	2.38

ENSSSCG00000035933	3.35	0.24	0.54	31.94	33.77	40.96	1.38	35.56	0.04	-4.69	18.47	12.59	0.0001	0.0128	2.37
ENSSSCG00000029778	1.41	0.30	0.44	6.45	6.49	7.56	0.72	6.83	0.10	-3.25	3.77	12.60	0.0001	0.0128	2.37
ENSSSCG00000009428	4.09	0.36	0.34	43.78	53.23	57.73	1.60	51.58	0.03	-5.01	26.59	12.56	0.0001	0.0128	2.36
ENSSSCG00000009824	0.66	0.41	0.60	2.96	3.51	3.17	0.56	3.21	0.17	-2.53	1.88	12.49	0.0001	0.0130	2.33
ENSSSCG00000011915	1.09	1.01	1.40	5.65	4.91	4.73	1.17	5.10	0.23	-2.13	3.13	12.47	0.0001	0.0130	2.33
ENSSSCG00000028501	4.11	2.67	3.87	18.63	18.09	22.29	3.55	19.67	0.18	-2.47	11.61	12.43	0.0001	0.0131	2.31
ENSSSCG00000008942	16.32	13.55	13.91	34.61	33.72	30.28	14.59	32.87	0.44	-1.17	23.73	12.41	0.0001	0.0131	2.31
ENSSSCG00000034843	1.49	1.16	0.96	7.03	7.05	8.58	1.20	7.56	0.16	-2.65	4.38	12.35	0.0001	0.0132	2.28
ENSSSCG00000011751	9.34	0.21	0.70	96.70	78.85	103.65	3.42	93.07	0.04	-4.77	48.24	12.15	0.0001	0.0137	2.22
ENSSSCG00000015281	1.03	0.42	0.45	6.12	4.88	5.59	0.64	5.53	0.11	-3.12	3.08	12.20	0.0001	0.0137	2.23
ENSSSCG00000033574	1.19	0.05	0.12	13.11	15.10	11.38	0.45	13.20	0.03	-4.86	6.82	12.00	0.0001	0.0140	2.16
ENSSSCG00000007857	9.07	0.43	0.79	99.75	93.42	75.48	3.43	89.55	0.04	-4.71	46.49	11.92	0.0001	0.0140	2.13
ENSSSCG00000001042	2.77	0.70	0.45	25.77	20.15	25.85	1.31	23.92	0.05	-4.20	12.61	12.02	0.0001	0.0140	2.17
ENSSSCG00000008378	2.52	1.01	1.58	9.87	9.68	8.28	1.70	9.28	0.18	-2.44	5.49	11.98	0.0001	0.0140	2.15
ENSSSCG00000011881	1.60	1.15	1.87	4.70	4.64	4.38	1.54	4.57	0.34	-1.57	3.06	11.97	0.0001	0.0140	2.15
ENSSSCG00000008004	4.91	4.01	4.92	9.89	11.28	11.14	4.61	10.77	0.43	-1.22	7.69	11.98	0.0001	0.0140	2.15
ENSSSCG00000036679	5.91	4.86	6.22	20.96	17.23	20.61	5.67	19.60	0.29	-1.79	12.63	11.87	0.0001	0.0142	2.11
ENSSSCG00000028184	0.91	0.12	0.21	10.65	11.29	13.96	0.41	11.97	0.03	-4.86	6.19	11.82	0.0001	0.0142	2.10
ENSSSCG00000038660	1.44	1.64	1.45	5.93	5.60	4.84	1.51	5.45	0.28	-1.85	3.48	11.84	0.0001	0.0142	2.10
ENSSSCG00000024800	3.13	0.91	1.16	15.64	14.38	18.13	1.73	16.05	0.11	-3.21	8.89	11.76	0.0001	0.0143	2.08
ENSSSCG00000002440	3.40	1.36	1.42	15.86	13.58	13.01	2.06	14.15	0.15	-2.78	8.10	11.77	0.0001	0.0143	2.08
ENSSSCG00000010764	1.59	0.63	0.23	5.98	5.56	6.27	0.82	5.93	0.14	-2.86	3.38	11.67	0.0001	0.0147	2.04
ENSSSCG000000031963	2.82	0.21	0.37	25.00	20.17	26.80	1.13	23.99	0.05	-4.40	12.56	11.43	0.0001	0.0151	1.95
ENSSSCG000000032421	0.75	0.08	0.06	6.60	6.70	5.22	0.30	6.17	0.05	-4.38	3.23	11.57	0.0001	0.0151	2.00
ENSSSCG00000002767	0.86	0.04	0.27	7.84	6.56	8.73	0.39	7.71	0.05	-4.31	4.05	11.47	0.0001	0.0151	1.96
ENSSSCG00000011205	0.38	0.01	0.01	2.40	2.16	2.39	0.14	2.31	0.06	-4.08	1.23	11.51	0.0001	0.0151	1.98
ENSSSCG000000021448	1.37	0.17	0.46	10.55	9.75	12.75	0.67	11.02	0.06	-4.04	5.84	11.44	0.0001	0.0151	1.95
ENSSSCG00000014233	1.26	0.46	0.28	10.80	8.91	11.87	0.67	10.53	0.06	-3.98	5.60	11.47	0.0001	0.0151	1.97
ENSSSCG00000013584	0.45	0.29	0.28	5.50	4.19	4.58	0.34	4.75	0.07	-3.79	2.55	11.41	0.0001	0.0151	1.94
ENSSSCG00000018015	2.95	0.94	1.70	21.19	16.12	18.88	1.87	18.73	0.10	-3.33	10.30	11.50	0.0001	0.0151	1.98
ENSSSCG00000015767	0.34	0.28	0.29	2.84	2.72	3.39	0.30	2.98	0.10	-3.31	1.64	11.51	0.0001	0.0151	1.98
ENSSSCG00000001095	8.55	8.40	7.30	18.22	20.48	21.89	8.09	20.20	0.40	-1.32	14.14	11.37	0.0001	0.0152	1.93
ENSSSCG00000001011	12.73	16.36	11.79	32.59	29.43	31.14	13.63	31.05	0.44	-1.19	22.34	11.24	0.0001	0.0156	1.88
ENSSSCG00000007958	3.18	2.58	3.22	5.87	6.46	6.35	2.99	6.23	0.48	-1.06	4.61	11.23	0.0001	0.0156	1.87
ENSSSCG00000034633	1.00	1.84	1.28	8.50	9.39	11.04	1.37	9.64	0.14	-2.81	5.51	11.22	0.0002	0.0156	1.87

ENSSSCG00000038186	0.81	0.12	0.15	6.66	5.05	5.95	0.36	5.89	0.06	-4.04	3.12	11.10	0.0002	0.0159	1.82
ENSSSCG00000006950	3.84	1.63	1.95	34.90	25.84	32.47	2.47	31.07	0.08	-3.65	16.77	11.04	0.0002	0.0159	1.79
ENSSSCG00000011263	3.80	2.17	2.24	24.69	18.71	21.04	2.74	21.48	0.13	-2.97	12.11	11.08	0.0002	0.0159	1.81
ENSSSCG00000013018	1.68	1.07	1.53	9.39	7.21	8.68	1.43	8.43	0.17	-2.56	4.93	11.05	0.0002	0.0159	1.80
ENSSSCG00000016511	3.66	2.34	2.76	14.81	12.00	15.12	2.92	13.98	0.21	-2.26	8.45	11.08	0.0002	0.0159	1.81
ENSSSCG00000001459	1.86	1.21	1.38	5.47	4.73	4.78	1.48	4.99	0.30	-1.75	3.24	11.13	0.0002	0.0159	1.83
ENSSSCG00000036096	1.02	1.15	1.40	3.56	3.26	3.70	1.19	3.50	0.34	-1.56	2.35	11.13	0.0002	0.0159	1.83
ENSSSCG00000013765	0.54	0.54	0.30	4.15	3.28	4.16	0.46	3.86	0.12	-3.06	2.16	10.94	0.0002	0.0162	1.76
ENSSSCG00000015509	12.70	11.48	13.42	27.51	23.72	27.16	12.53	26.13	0.48	-1.06	19.33	10.92	0.0002	0.0162	1.75
ENSSSCG00000022159	42.31	45.92	44.72	17.67	24.64	19.75	44.32	20.69	2.14	1.10	32.50	-10.95	0.0002	0.0162	1.76
ENSSSCG00000024109	1.88	0.99	1.00	4.74	4.58	4.58	1.29	4.63	0.28	-1.85	2.96	10.89	0.0002	0.0162	1.74
ENSSSCG00000004410	1.41	0.00	0.25	15.05	14.07	11.09	0.55	13.40	0.04	-4.60	6.98	10.87	0.0002	0.0163	1.73
ENSSSCG00000002668	3.42	0.13	0.20	32.36	32.01	41.92	1.25	35.43	0.04	-4.83	18.34	10.77	0.0002	0.0168	1.69
ENSSSCG00000005529	3.92	0.25	0.22	47.19	57.64	41.91	1.47	48.91	0.03	-5.06	25.19	10.71	0.0002	0.0168	1.66
ENSSSCG00000002803	1.15	0.03	0.24	8.35	6.55	8.58	0.47	7.82	0.06	-4.05	4.15	10.71	0.0002	0.0168	1.66
ENSSSCG00000008402	2.38	1.24	1.78	17.23	15.73	12.78	1.80	15.25	0.12	-3.08	8.52	10.72	0.0002	0.0168	1.66
ENSSSCG00000038001	2.18	2.70	2.36	7.51	6.92	8.58	2.41	7.67	0.31	-1.67	5.04	10.70	0.0002	0.0168	1.66
ENSSSCG00000007839	6.80	6.74	8.03	16.49	16.05	18.95	7.19	17.16	0.42	-1.26	12.18	10.70	0.0002	0.0168	1.66
ENSSSCG00000003965	1.71	0.35	0.89	11.34	8.90	9.08	0.99	9.77	0.10	-3.31	5.38	10.65	0.0002	0.0170	1.63
ENSSSCG00000038993	2.57	0.76	1.78	13.15	11.91	15.55	1.71	13.54	0.13	-2.99	7.62	10.66	0.0002	0.0170	1.64
ENSSSCG00000023834	4.90	0.26	0.39	66.56	47.83	56.63	1.85	57.01	0.03	-4.95	29.43	10.59	0.0002	0.0172	1.61
ENSSSCG00000037854	1.84	1.39	2.64	11.89	10.40	9.20	1.96	10.50	0.19	-2.42	6.23	10.58	0.0002	0.0172	1.61
ENSSSCG00000001715	2.51	1.14	2.09	9.96	8.28	10.40	1.92	9.55	0.20	-2.32	5.73	10.60	0.0002	0.0172	1.61
ENSSSCG00000035596	1.11	0.67	0.89	3.09	3.27	2.87	0.89	3.08	0.29	-1.79	1.98	10.56	0.0002	0.0173	1.60
ENSSSCG00000027465	3.55	3.43	3.92	1.25	1.47	1.01	3.63	1.24	2.92	1.54	2.44	-10.55	0.0002	0.0173	1.59
ENSSSCG00000011217	1.22	0.29	0.14	12.27	8.91	11.09	0.55	10.75	0.05	-4.28	5.65	10.49	0.0002	0.0176	1.57
ENSSSCG00000040550	1.13	0.82	1.22	4.64	4.27	3.73	1.06	4.21	0.25	-1.99	2.63	10.49	0.0002	0.0176	1.57
ENSSSCG00000018028	0.55	0.11	0.03	6.37	4.65	6.00	0.23	5.67	0.04	-4.61	2.95	10.38	0.0002	0.0176	1.52
ENSSSCG00000034743	3.01	1.10	2.00	22.31	17.30	23.46	2.04	21.02	0.10	-3.37	11.53	10.38	0.0002	0.0176	1.52
ENSSSCG00000009765	2.56	1.05	1.42	13.46	10.20	12.00	1.68	11.89	0.14	-2.83	6.78	10.41	0.0002	0.0176	1.54
ENSSSCG00000010491	1.08	0.43	0.66	4.15	4.29	3.51	0.72	3.98	0.18	-2.46	2.35	10.38	0.0002	0.0176	1.52
ENSSSCG00000006495	2.05	2.93	2.44	11.61	9.33	9.45	2.47	10.13	0.24	-2.04	6.30	10.39	0.0002	0.0176	1.52
ENSSSCG00000029553	2.46	2.32	2.96	5.53	5.31	6.00	2.58	5.61	0.46	-1.12	4.10	10.41	0.0002	0.0176	1.54
ENSSSCG00000023423	18.61	14.57	16.37	39.83	38.40	45.95	16.51	41.39	0.40	-1.33	28.95	10.34	0.0002	0.0179	1.50
ENSSSCG00000017932	0.51	0.08	0.06	2.26	2.13	2.23	0.21	2.21	0.10	-3.36	1.21	10.32	0.0002	0.0179	1.50

ENSSSCG00000003823	1.55	0.05	0.13	20.61	19.53	26.66	0.57	22.27	0.03	-5.28	11.42	10.29	0.0002	0.0180	1.48
ENSSSCG00000000117	2.94	1.51	1.83	21.52	17.22	23.73	2.09	20.82	0.10	-3.32	11.46	10.29	0.0002	0.0180	1.48
ENSSSCG000000003781	2.71	1.02	2.52	16.72	13.65	18.36	2.08	16.24	0.13	-2.96	9.16	10.28	0.0002	0.0180	1.48
ENSSSCG000000036033	1.34	1.83	2.35	5.85	5.20	5.33	1.84	5.46	0.34	-1.57	3.65	10.26	0.0002	0.0181	1.47
ENSSSCG000000017344	0.23	0.06	0.06	3.17	3.86	4.42	0.12	3.82	0.03	-5.02	1.97	10.18	0.0002	0.0182	1.43
ENSSSCG000000011391	2.79	0.55	0.69	28.11	32.16	39.38	1.34	33.22	0.04	-4.63	17.28	10.18	0.0002	0.0182	1.43
ENSSSCG000000032775	0.94	0.00	0.10	9.05	6.56	8.30	0.34	7.97	0.04	-4.53	4.16	10.18	0.0002	0.0182	1.43
ENSSSCG000000031352	0.50	0.11	0.03	3.61	2.78	3.24	0.21	3.21	0.07	-3.90	1.71	10.23	0.0002	0.0182	1.45
ENSSSCG000000023273	1.98	1.69	1.35	14.43	11.38	15.64	1.67	13.82	0.12	-3.05	7.74	10.18	0.0002	0.0182	1.43
ENSSSCG000000015549	1.36	1.36	1.93	4.63	4.03	4.37	1.55	4.34	0.36	-1.49	2.95	10.21	0.0002	0.0182	1.44
ENSSSCG000000017551	3.56	2.91	3.32	11.80	10.40	13.47	3.26	11.89	0.27	-1.87	7.57	10.14	0.0002	0.0184	1.42
ENSSSCG000000026564	0.79	0.45	0.19	7.46	8.10	10.23	0.48	8.59	0.06	-4.17	4.54	10.10	0.0002	0.0186	1.40
ENSSSCG000000017963	1.14	0.24	0.25	10.08	7.29	9.16	0.54	8.84	0.06	-4.03	4.69	10.09	0.0002	0.0186	1.39
ENSSSCG000000009237	1.28	2.18	1.11	10.08	9.84	12.76	1.52	10.89	0.14	-2.84	6.21	10.09	0.0002	0.0186	1.39
ENSSSCG000000010379	0.78	0.03	0.07	7.25	7.38	9.68	0.29	8.10	0.04	-4.79	4.20	10.05	0.0002	0.0187	1.38
ENSSSCG000000030800	0.24	0.00	0.05	4.70	4.64	3.41	0.10	4.25	0.02	-5.44	2.18	9.97	0.0003	0.0190	1.34
ENSSSCG000000037649	0.72	0.09	0.17	8.64	9.32	6.60	0.32	8.18	0.04	-4.66	4.25	9.96	0.0003	0.0190	1.33
ENSSSCG000000025788	3.03	2.86	4.04	22.56	16.64	21.04	3.31	20.08	0.16	-2.60	11.69	9.96	0.0003	0.0190	1.33
ENSSSCG000000008852	1.14	1.12	1.50	7.50	6.49	5.64	1.26	6.54	0.19	-2.38	3.90	10.00	0.0003	0.0190	1.35
ENSSSCG000000007454	7.89	5.62	6.88	20.78	16.88	19.44	6.79	19.03	0.36	-1.49	12.91	9.96	0.0003	0.0190	1.33
ENSSSCG000000015499	4.83	5.96	6.61	12.28	13.59	14.44	5.80	13.44	0.43	-1.21	9.62	9.96	0.0003	0.0190	1.33
ENSSSCG000000028471	1.78	0.11	0.23	31.79	22.86	24.39	0.71	26.35	0.03	-5.22	13.53	9.84	0.0003	0.0191	1.28
ENSSSCG000000023904	0.83	0.04	0.07	9.46	6.74	8.82	0.31	8.34	0.04	-4.73	4.33	9.91	0.0003	0.0191	1.31
ENSSSCG000000039815	0.22	0.02	0.06	1.83	2.04	2.34	0.10	2.07	0.05	-4.35	1.08	9.84	0.0003	0.0191	1.28
ENSSSCG000000032814	0.99	0.05	0.12	9.13	7.88	6.55	0.39	7.85	0.05	-4.35	4.12	9.85	0.0003	0.0191	1.28
ENSSSCG000000008970	1.24	0.25	0.26	11.88	8.47	10.43	0.58	10.26	0.06	-4.14	5.42	9.92	0.0003	0.0191	1.31
ENSSSCG000000003257	1.74	0.85	0.75	7.16	9.48	9.32	1.11	8.65	0.13	-2.96	4.88	9.86	0.0003	0.0191	1.29
ENSSSCG000000002353	2.22	1.06	1.64	10.69	8.08	10.18	1.64	9.65	0.17	-2.56	5.65	9.85	0.0003	0.0191	1.28
ENSSSCG000000008761	2.93	2.14	3.17	6.10	6.79	6.29	2.75	6.39	0.43	-1.22	4.57	9.85	0.0003	0.0191	1.28
ENSSSCG000000013482	1.88	1.17	1.15	6.69	8.67	8.75	1.40	8.04	0.17	-2.52	4.72	9.82	0.0003	0.0193	1.27
ENSSSCG000000010664	2.90	0.16	0.50	26.18	28.52	36.41	1.19	30.37	0.04	-4.68	15.78	9.80	0.0003	0.0193	1.26
ENSSSCG000000015109	2.28	0.22	0.14	14.36	14.54	18.94	0.88	15.95	0.06	-4.18	8.41	9.80	0.0003	0.0193	1.26
ENSSSCG000000017609	0.52	0.03	0.02	7.18	5.15	5.70	0.19	6.01	0.03	-4.99	3.10	9.74	0.0003	0.0197	1.23
ENSSSCG000000008410	0.30	0.04	0.16	4.16	3.08	3.26	0.16	3.50	0.05	-4.42	1.83	9.69	0.0003	0.0198	1.21
ENSSSCG000000014004	1.75	1.38	1.76	20.13	15.65	22.34	1.63	19.38	0.08	-3.57	10.50	9.69	0.0003	0.0198	1.21

ENSSSCG00000031112	0.60	0.72	0.76	2.52	2.34	2.83	0.70	2.57	0.27	-1.88	1.63	9.71	0.0003	0.0198	1.22
ENSSSCG00000031102	3.33	2.75	3.61	6.77	6.87	7.79	3.23	7.14	0.45	-1.14	5.19	9.69	0.0003	0.0198	1.21
ENSSSCG00000000038	139.14	147.27	162.53	50.47	60.85	74.59	149.65	61.97	2.41	1.27	105.81	-9.67	0.0003	0.0198	1.20
ENSSSCG00000001594	0.13	0.03	0.03	2.70	2.25	3.14	0.07	2.70	0.02	-5.32	1.38	9.62	0.0003	0.0200	1.18
ENSSSCG00000015100	0.26	0.04	0.04	2.74	3.27	3.85	0.11	3.29	0.03	-4.87	1.70	9.60	0.0003	0.0200	1.17
ENSSSCG00000037044	5.13	0.39	0.57	38.51	47.15	55.13	2.03	46.93	0.04	-4.53	24.48	9.60	0.0003	0.0200	1.17
ENSSSCG00000039802	2.59	1.12	1.47	8.21	6.98	6.88	1.72	7.36	0.23	-2.09	4.54	9.61	0.0003	0.0200	1.17
ENSSSCG00000015048	0.51	0.20	0.03	8.54	5.90	7.22	0.25	7.22	0.03	-4.88	3.73	9.55	0.0003	0.0200	1.14
ENSSSCG00000021764	0.33	0.12	0.14	4.14	3.30	3.02	0.19	3.49	0.06	-4.17	1.84	9.54	0.0003	0.0200	1.13
ENSSSCG00000003455	2.39	0.53	0.66	24.40	17.06	22.37	1.19	21.28	0.06	-4.16	11.23	9.53	0.0003	0.0200	1.13
ENSSSCG00000016414	0.50	0.15	0.15	2.89	2.64	3.47	0.26	3.00	0.09	-3.50	1.63	9.55	0.0003	0.0200	1.14
ENSSSCG00000007935	2.03	1.17	1.52	12.24	10.52	14.65	1.57	12.47	0.13	-2.99	7.02	9.54	0.0003	0.0200	1.14
ENSSSCG00000031727	2.58	1.80	2.34	7.76	7.04	9.05	2.24	7.95	0.28	-1.83	5.09	9.54	0.0003	0.0200	1.14
ENSSSCG00000012126	34.09	36.75	37.33	15.95	21.38	15.98	36.05	17.77	2.03	1.02	26.91	-9.55	0.0003	0.0200	1.14
ENSSSCG00000007488	0.12	0.02	0.05	1.47	1.34	1.36	0.06	1.39	0.04	-4.48	0.73	9.44	0.0003	0.0202	1.09
ENSSSCG00000036621	0.36	0.17	0.16	2.20	2.10	2.68	0.23	2.33	0.10	-3.32	1.28	9.46	0.0003	0.0202	1.10
ENSSSCG00000005221	4.25	1.69	4.16	25.75	21.75	30.13	3.37	25.88	0.13	-2.94	14.62	9.48	0.0003	0.0202	1.11
ENSSSCG00000013313	1.81	3.76	2.18	15.11	13.39	17.99	2.58	15.50	0.17	-2.59	9.04	9.45	0.0003	0.0202	1.09
ENSSSCG00000025041	1.44	0.96	0.91	5.65	4.60	6.11	1.10	5.46	0.20	-2.31	3.28	9.44	0.0003	0.0202	1.09
ENSSSCG00000004270	0.93	0.38	0.46	2.99	2.59	2.81	0.59	2.80	0.21	-2.25	1.69	9.49	0.0003	0.0202	1.11
ENSSSCG00000004172	0.66	0.74	1.13	4.00	4.29	3.35	0.84	3.88	0.22	-2.21	2.36	9.50	0.0003	0.0202	1.12
ENSSSCG00000026367	7.13	7.77	6.80	26.01	21.71	28.81	7.24	25.51	0.28	-1.82	16.37	9.44	0.0003	0.0202	1.09
ENSSSCG00000001786	3.04	0.34	0.16	41.11	29.35	41.88	1.18	37.45	0.03	-4.99	19.31	9.41	0.0003	0.0204	1.07
ENSSSCG00000012235	3.71	1.70	2.15	17.69	13.93	13.67	2.52	15.10	0.17	-2.58	8.81	9.40	0.0003	0.0204	1.07
ENSSSCG00000033000	1.55	2.31	1.80	7.42	6.07	6.02	1.89	6.51	0.29	-1.79	4.20	9.41	0.0003	0.0204	1.07
ENSSSCG00000003508	0.40	0.11	0.16	3.18	2.34	2.85	0.22	2.79	0.08	-3.64	1.51	9.37	0.0003	0.0204	1.06
ENSSSCG00000023957	17.51	6.15	8.77	131.26	106.41	152.39	10.81	130.02	0.08	-3.59	70.41	9.37	0.0003	0.0204	1.06
ENSSSCG00000004388	1.56	0.50	2.16	6.03	5.73	5.85	1.41	5.87	0.24	-2.06	3.64	9.39	0.0003	0.0204	1.06
ENSSSCG00000006309	1.86	1.13	1.86	4.87	5.79	4.92	1.62	5.19	0.31	-1.68	3.41	9.36	0.0003	0.0204	1.05
ENSSSCG00000033739	0.72	0.04	0.09	8.35	7.54	5.78	0.28	7.22	0.04	-4.67	3.75	9.35	0.0003	0.0205	1.04
ENSSSCG00000017187	20.93	0.44	0.88	161.12	138.81	197.38	7.42	165.77	0.04	-4.48	86.59	9.31	0.0003	0.0207	1.03
ENSSSCG00000010164	3.18	2.67	3.75	9.44	7.85	9.69	3.20	8.99	0.36	-1.49	6.10	9.32	0.0003	0.0207	1.03
ENSSSCG00000023057	0.66	0.23	0.23	3.45	2.75	3.65	0.37	3.28	0.11	-3.13	1.83	9.30	0.0003	0.0207	1.02
ENSSSCG00000009796	1.25	0.09	0.13	10.86	10.19	7.66	0.49	9.57	0.05	-4.28	5.03	9.29	0.0004	0.0207	1.01
ENSSSCG00000028060	0.82	0.21	0.36	5.60	4.11	5.54	0.46	5.08	0.09	-3.46	2.77	9.27	0.0004	0.0207	1.01

ENSSSCG00000013546	1.05	1.64	1.79	4.67	4.01	4.59	1.49	4.42	0.34	-1.57	2.96	9.27	0.0004	0.0207	1.01
ENSSSCG00000008908	0.42	0.00	0.00	4.25	4.79	6.05	0.14	5.03	0.03	-5.16	2.59	9.26	0.0004	0.0208	1.00
ENSSSCG00000000679	3.83	0.28	0.56	27.78	24.28	34.43	1.56	28.83	0.05	-4.21	15.19	9.23	0.0004	0.0210	0.98
ENSSSCG00000008397	3.07	4.60	5.39	29.93	28.88	39.05	4.35	32.62	0.13	-2.91	18.49	9.23	0.0004	0.0210	0.99
ENSSSCG00000001203	1.63	0.77	1.23	3.75	3.69	4.06	1.21	3.83	0.32	-1.66	2.52	9.20	0.0004	0.0212	0.97
ENSSSCG00000027144	0.90	0.19	0.53	5.20	4.36	3.86	0.54	4.47	0.12	-3.05	2.50	9.12	0.0004	0.0217	0.93
ENSSSCG00000009956	6.82	7.32	6.50	22.39	19.21	25.49	6.88	22.36	0.31	-1.70	14.62	9.12	0.0004	0.0217	0.93
ENSSSCG00000031876	4.86	5.23	7.67	15.49	18.83	16.86	5.92	17.06	0.35	-1.53	11.49	9.13	0.0004	0.0217	0.93
ENSSSCG00000028126	2.37	1.50	2.82	5.61	5.94	5.90	2.23	5.82	0.38	-1.38	4.03	9.10	0.0004	0.0218	0.92
ENSSSCG00000015197	3.82	0.60	0.59	29.32	35.47	42.85	1.67	35.88	0.05	-4.43	18.78	9.10	0.0004	0.0218	0.92
ENSSSCG00000015696	0.70	0.01	0.05	10.47	7.47	7.77	0.25	8.57	0.03	-5.09	4.41	9.09	0.0004	0.0218	0.91
ENSSSCG00000031652	2.64	1.92	2.45	8.52	7.97	6.57	2.33	7.69	0.30	-1.72	5.01	9.08	0.0004	0.0219	0.91
ENSSSCG00000006726	0.62	0.03	0.06	6.45	5.12	4.55	0.23	5.37	0.04	-4.52	2.80	9.03	0.0004	0.0220	0.89
ENSSSCG00000010614	0.73	0.05	0.19	8.36	7.43	5.70	0.32	7.16	0.05	-4.47	3.74	9.00	0.0004	0.0220	0.87
ENSSSCG00000034547	0.59	0.04	0.05	4.85	3.47	4.66	0.23	4.33	0.05	-4.26	2.28	9.04	0.0004	0.0220	0.89
ENSSSCG00000031764	1.09	0.85	1.99	5.11	4.78	5.71	1.31	5.20	0.25	-1.99	3.25	9.05	0.0004	0.0220	0.89
ENSSSCG00000002805	7.56	5.70	5.74	20.55	16.07	19.08	6.33	18.57	0.34	-1.55	12.45	9.03	0.0004	0.0220	0.88
ENSSSCG00000005655	22.57	14.22	14.69	50.95	44.98	54.94	17.16	50.29	0.34	-1.55	33.73	9.02	0.0004	0.0220	0.88
ENSSSCG00000011849	7.83	6.08	8.15	16.00	14.10	16.46	7.35	15.52	0.47	-1.08	11.44	9.00	0.0004	0.0220	0.87
ENSSSCG00000033351	2.34	2.30	3.15	5.61	5.19	5.40	2.60	5.40	0.48	-1.05	4.00	9.00	0.0004	0.0220	0.87
ENSSSCG00000016203	1.97	0.04	0.16	18.04	12.60	14.38	0.72	15.01	0.05	-4.37	7.87	8.95	0.0004	0.0225	0.84
ENSSSCG00000011249	1.14	0.31	0.28	7.40	5.43	5.78	0.58	6.20	0.09	-3.43	3.39	8.87	0.0004	0.0230	0.80
ENSSSCG00000012295	2.15	1.59	2.14	6.93	5.46	6.95	1.96	6.45	0.30	-1.72	4.20	8.85	0.0004	0.0232	0.79
ENSSSCG00000016444	43.38	41.94	43.24	10.61	20.82	19.00	42.85	16.81	2.55	1.35	29.83	-8.84	0.0004	0.0232	0.78
ENSSSCG00000007991	2.71	1.07	1.36	12.53	9.17	10.47	1.71	10.73	0.16	-2.65	6.22	8.77	0.0005	0.0239	0.75
ENSSSCG00000020990	0.79	0.03	0.11	11.27	12.59	8.34	0.31	10.74	0.03	-5.10	5.52	8.75	0.0005	0.0239	0.74
ENSSSCG00000032076	1.34	0.07	0.09	13.37	10.06	14.99	0.50	12.81	0.04	-4.69	6.65	8.75	0.0005	0.0239	0.74
ENSSSCG00000015823	3.62	3.11	2.94	13.95	10.74	14.61	3.22	13.10	0.25	-2.02	8.16	8.72	0.0005	0.0242	0.72
ENSSSCG00000038153	1.28	0.28	0.31	13.12	9.35	13.76	0.62	12.08	0.05	-4.28	6.35	8.69	0.0005	0.0243	0.70
ENSSSCG00000017446	3.92	3.32	3.28	22.19	21.77	29.79	3.51	24.58	0.14	-2.81	14.04	8.69	0.0005	0.0243	0.71
ENSSSCG00000039469	8.51	9.85	11.44	33.39	25.67	28.67	9.93	29.24	0.34	-1.56	19.59	8.67	0.0005	0.0245	0.69
ENSSSCG00000004008	1.05	0.53	0.96	2.81	2.83	2.55	0.85	2.73	0.31	-1.69	1.79	8.64	0.0005	0.0246	0.68
ENSSSCG00000005055	110.23	115.17	100.51	249.15	213.19	268.93	108.63	243.76	0.45	-1.17	176.20	8.64	0.0005	0.0246	0.68
ENSSSCG00000007236	0.91	0.03	0.12	13.24	9.15	13.57	0.35	11.99	0.03	-5.09	6.17	8.63	0.0005	0.0247	0.67
ENSSSCG00000008186	3.70	2.53	3.49	18.39	19.08	13.70	3.24	17.06	0.19	-2.40	10.15	8.61	0.0005	0.0247	0.66

ENSSSCG00000033259	1.36	0.31	0.48	9.68	8.23	12.03	0.71	9.98	0.07	-3.80	5.35	8.60	0.0005	0.0248	0.66
ENSSSCG00000039903	0.08	0.24	0.42	9.54	6.22	8.35	0.25	8.04	0.03	-5.02	4.14	8.54	0.0005	0.0253	0.62
ENSSSCG00000006462	2.88	0.22	0.41	25.90	20.54	30.85	1.17	25.77	0.05	-4.46	13.47	8.56	0.0005	0.0253	0.63
ENSSSCG00000016166	0.76	0.20	0.25	8.56	5.70	7.32	0.41	7.20	0.06	-4.15	3.80	8.54	0.0005	0.0253	0.63
ENSSSCG00000007149	6.61	2.74	2.06	29.74	25.89	36.44	3.80	30.69	0.12	-3.01	17.25	8.54	0.0005	0.0253	0.63
ENSSSCG00000040989	3.19	1.79	1.35	27.50	20.86	31.28	2.11	26.55	0.08	-3.65	14.33	8.51	0.0005	0.0254	0.61
ENSSSCG00000026175	1.17	0.03	0.13	9.37	13.50	13.91	0.44	12.26	0.04	-4.79	6.35	8.49	0.0005	0.0256	0.60
ENSSSCG00000025685	1.97	0.11	0.25	22.35	14.73	19.35	0.78	18.81	0.04	-4.60	9.79	8.46	0.0005	0.0257	0.58
ENSSSCG00000003825	1.36	1.89	0.68	10.43	14.18	15.39	1.31	13.33	0.10	-3.35	7.32	8.43	0.0005	0.0257	0.56
ENSSSCG00000010770	1.30	0.72	0.60	9.77	6.88	7.49	0.88	8.05	0.11	-3.20	4.46	8.44	0.0005	0.0257	0.57
ENSSSCG00000011744	0.57	0.70	0.56	5.37	3.71	4.95	0.61	4.67	0.13	-2.94	2.64	8.44	0.0005	0.0257	0.57
ENSSSCG00000010402	0.81	0.31	0.61	4.03	2.95	3.49	0.57	3.49	0.16	-2.60	2.03	8.47	0.0005	0.0257	0.58
ENSSSCG00000027587	4.58	2.28	2.16	17.28	12.96	14.27	3.00	14.84	0.20	-2.30	8.92	8.46	0.0005	0.0257	0.58
ENSSSCG00000014818	2.51	2.98	3.87	8.53	7.05	7.95	3.12	7.84	0.40	-1.33	5.48	8.43	0.0005	0.0257	0.56
ENSSSCG00000009783	5.81	4.02	6.22	12.08	11.06	12.72	5.35	11.95	0.45	-1.16	8.65	8.46	0.0005	0.0257	0.58
ENSSSCG00000008834	6.36	0.65	0.68	77.31	55.14	84.05	2.56	72.17	0.04	-4.82	37.37	8.41	0.0005	0.0259	0.55
ENSSSCG00000032203	0.36	0.08	0.07	2.87	4.11	3.15	0.17	3.38	0.05	-4.30	1.77	8.40	0.0006	0.0259	0.55
ENSSSCG00000005967	2.48	1.17	2.60	15.87	13.02	18.97	2.09	15.95	0.13	-2.93	9.02	8.40	0.0006	0.0259	0.55
ENSSSCG000000031441	4.73	3.17	3.38	8.67	8.13	9.49	3.76	8.76	0.43	-1.22	6.26	8.38	0.0006	0.0260	0.54
ENSSSCG000000040224	1.46	0.08	0.13	13.38	12.31	17.99	0.56	14.56	0.04	-4.71	7.56	8.37	0.0006	0.0261	0.53
ENSSSCG000000035577	0.62	0.01	0.03	8.46	5.77	6.31	0.22	6.84	0.03	-4.96	3.53	8.34	0.0006	0.0262	0.51
ENSSSCG000000039395	1.36	0.15	0.42	14.73	9.89	14.36	0.64	12.99	0.05	-4.34	6.82	8.32	0.0006	0.0262	0.50
ENSSSCG000000028587	0.64	0.03	0.10	4.52	3.38	4.94	0.26	4.28	0.06	-4.07	2.27	8.32	0.0006	0.0262	0.51
ENSSSCG000000008491	10.18	3.27	3.98	93.17	78.82	118.34	5.81	96.78	0.06	-4.06	51.29	8.35	0.0006	0.0262	0.52
ENSSSCG00000011181	0.99	0.38	0.61	8.97	6.48	9.69	0.66	8.38	0.08	-3.67	4.52	8.35	0.0006	0.0262	0.52
ENSSSCG00000017601	1.55	0.82	0.92	6.38	4.86	6.74	1.10	5.99	0.18	-2.45	3.55	8.32	0.0006	0.0262	0.50
ENSSSCG000000028144	1.91	1.61	2.59	5.18	4.57	5.18	2.04	4.98	0.41	-1.29	3.51	8.33	0.0006	0.0262	0.51
ENSSSCG000000003755	0.78	0.32	0.39	4.22	3.71	5.30	0.50	4.41	0.11	-3.14	2.46	8.31	0.0006	0.0263	0.50
ENSSSCG00000015021	3.50	0.08	0.35	23.42	32.96	35.38	1.31	30.58	0.04	-4.55	15.95	8.29	0.0006	0.0265	0.48
ENSSSCG000000022643	0.41	0.19	0.15	3.31	2.44	3.53	0.25	3.09	0.08	-3.62	1.67	8.28	0.0006	0.0265	0.48
ENSSSCG000000039793	5.30	5.77	5.28	12.36	10.15	10.46	5.45	10.99	0.50	-1.01	8.22	8.28	0.0006	0.0265	0.48
ENSSSCG000000030167	44.79	48.30	44.40	18.51	20.97	27.82	45.83	22.43	2.04	1.03	34.13	-8.27	0.0006	0.0265	0.48
ENSSSCG000000040698	3.34	1.78	2.37	9.49	7.49	9.56	2.50	8.84	0.28	-1.82	5.67	8.25	0.0006	0.0266	0.46
ENSSSCG000000031781	9.90	9.28	7.44	25.05	19.95	21.06	8.87	22.02	0.40	-1.31	15.45	8.25	0.0006	0.0266	0.46
ENSSSCG00000009332	1.52	0.57	0.21	24.52	16.52	18.07	0.76	19.70	0.04	-4.69	10.23	8.22	0.0006	0.0270	0.45

Table S3 Alternative splicing analysis

event_type	gene_id	chr	event start	event end	XL13		XL17		XL8		XS12		XS15		XS16	
					gene fpkm	AS fpkm	gene fpkm	AS fpkm	gene fpkm	AS fpkm	gene fpkm	AS fpkm	gene fpkm	AS fpkm	gene fpkm	AS fpkm
IR_OFF	ENSSSCG0000000002	5	3230944	3230975	2.87	0.27	1.91	0.16	2.41	0.06	1.31	0.04	3.61	0.13	3.20	0.17
XSKIP_ON	ENSSSCG0000000002	5	3229095	3229139	2.87	0.27	1.91	0.16	2.41	0.06	1.31	0.04	3.61	0.13	3.20	0.17
TSS	ENSSSCG0000000002	5	3246191	3246479	2.87	0.25	1.91	0.16	2.41	0.20	1.31	0.11	3.61	0.48	3.20	0.22
XAE	ENSSSCG0000000002	5	3245642	3245737	2.87	0.25	1.91	0.16	2.41	0.20	1.31	0.11	3.61	0.48	3.20	0.22
IR_ON	ENSSSCG0000000002	5	3230944	3230975	2.87	2.35	1.91	1.59	2.41	2.15	1.31	1.16	3.61	3.00	3.20	2.81
TSS	ENSSSCG0000000002	5	3246207	3246243	2.87	2.35	1.91	1.59	2.41	2.15	1.31	1.16	3.61	3.00	3.20	2.81
XAE	ENSSSCG0000000002	5	3245642	3245750	2.87	2.35	1.91	1.59	2.41	2.15	1.31	1.16	3.61	3.00	3.20	2.81
XSKIP_OFF	ENSSSCG0000000002	5	3229095	3229139	2.87	2.35	1.91	1.59	2.41	2.15	1.31	1.16	3.61	3.00	3.20	2.81
TTS	ENSSSCG0000000002	5	3228196	3228279	2.87	2.62	1.91	1.75	2.41	2.21	1.31	1.21	3.61	3.13	3.20	2.98
SKIP_OFF	ENSSSCG0000000003	5	3256861	3256899	2.72	0.00	2.90	0.08	3.34	0.06	8.51	0.07	7.50	0.06	13.87	0.06
TSS	ENSSSCG0000000003	5	3270722	3270814	2.72	2.72	2.90	2.82	3.34	3.28	8.51	8.44	7.50	7.44	13.87	13.81
SKIP_ON	ENSSSCG0000000003	5	3256861	3256899	2.72	2.72	2.90	2.82	3.34	3.28	8.51	8.44	7.50	7.44	13.87	13.81
TTS	ENSSSCG0000000003	5	3245883	3249295	2.72	2.72	2.90	2.90	3.34	3.34	8.51	8.51	7.50	7.50	13.87	13.87
TSS	ENSSSCG0000000005	5	3287462	3287506	7.35	7.35	5.39	5.39	12.67	12.67	9.60	9.60	8.93	8.93	10.06	10.06
TTS	ENSSSCG0000000005	5	3294047	3294638	7.35	7.35	5.39	5.39	12.67	12.67	9.60	9.60	8.93	8.93	10.06	10.06
TSS	ENSSSCG0000000006	5	3320884	3321091	2.24	2.24	2.70	2.70	3.07	3.07	1.50	1.50	2.69	2.69	1.54	1.54
TTS	ENSSSCG0000000006	5	3302755	3303002	2.24	2.24	2.70	2.70	3.07	3.07	1.50	1.50	2.69	2.69	1.54	1.54
SKIP_OFF	ENSSSCG0000000007	5	3213140	3213312	6.48	1.26	4.50	0.06	5.79	0.58	7.05	1.63	5.03	0.84	5.44	1.13
SKIP_ON	ENSSSCG0000000007	5	3213140	3213312	6.48	5.22	4.50	4.44	5.79	5.21	7.05	5.43	5.03	4.19	5.44	4.32
TSS	ENSSSCG0000000007	5	3224232	3224387	6.48	6.48	4.50	4.50	5.79	5.79	7.05	7.05	5.03	5.03	5.44	5.44
TTS	ENSSSCG0000000007	5	3208118	3208591	6.48	6.48	4.50	4.50	5.79	5.79	7.05	7.05	5.03	5.03	5.44	5.44
TTS	ENSSSCG0000000010	5	3873380	3874892	139.11	41.92	217.73	62.71	210.08	60.73	248.85	75.06	206.02	51.23	283.29	84.57
TSS	ENSSSCG0000000010	5	3926979	3927217	139.11	97.19	217.73	155.03	210.08	149.35	248.85	173.79	206.02	154.78	283.29	198.72
TTS	ENSSSCG0000000010	5	3838211	3840291	139.11	97.19	217.73	155.03	210.08	149.35	248.85	173.79	206.02	154.78	283.29	198.72
SKIP_OFF	ENSSSCG0000000014	5	4083099	4083131	9.67	1.00	8.83	1.96	7.82	0.36	20.51	2.15	13.39	1.17	17.52	1.42
SKIP_ON	ENSSSCG0000000014	5	4083099	4083131	9.67	8.67	8.83	6.87	7.82	7.46	20.51	18.37	13.39	12.22	17.52	16.10
TSS	ENSSSCG0000000014	5	4101016	4101269	9.67	9.67	8.83	8.83	7.82	7.82	20.51	20.51	13.39	13.39	17.52	17.52
TTS	ENSSSCG0000000014	5	4070703	4071801	9.67	9.67	8.83	8.83	7.82	7.82	20.51	20.51	13.39	13.39	17.52	17.52
TTS	ENSSSCG0000000018	5	4191887	4195613	14.72	0.00	16.73	0.30	19.00	0.38	9.78	0.16	13.77	0.00	15.01	0.00
TSS	ENSSSCG0000000018	5	4179663	4179825	14.72	4.90	16.73	3.70	19.00	6.46	9.78	2.12	13.77	4.55	15.01	5.09
TSS	ENSSSCG0000000018	5	4179562	4179602	14.72	5.13	16.73	6.44	19.00	5.09	9.78	2.32	13.77	4.04	15.01	4.03
TSS	ENSSSCG0000000018	5	4152072	4152540	14.72	4.69	16.73	6.59	19.00	7.45	9.78	5.33	13.77	5.18	15.01	5.90
SKIP_OFF	ENSSSCG0000000019	5	4212719	4212802	20.21	1.19	23.40	2.38	15.22	1.83	15.91	0.36	15.96	1.35	16.78	1.56
SKIP_ON	ENSSSCG0000000019	5	4212719	4212802	20.21	19.02	23.40	21.01	15.22	13.39	15.91	15.55	15.96	14.62	16.78	15.21
TSS	ENSSSCG0000000019	5	4218932	4219415	20.21	20.21	23.40	23.40	15.22	15.22	15.91	15.91	15.96	15.96	16.78	16.78
TTS	ENSSSCG0000000019	5	4197544	4201319	20.21	20.21	23.40	23.40	15.22	15.22	15.91	15.91	15.96	15.96	16.78	16.78
TSS	ENSSSCG0000000020	5	4291399	4291452	0.21	0.21	0.10	0.10	0.39	0.39	1.20	1.20	0.25	0.25	0.17	0.17
TTS	ENSSSCG0000000020	5	4385028	4385246	0.21	0.21	0.10	0.10	0.39	0.39	1.20	1.20	0.25	0.25	0.17	0.17
SKIP_OFF	ENSSSCG0000000021	5	4412191	4412301	1.07	0.17	0.71	0.48	0.86	0.44	10.32	0.55	5.59	1.12	8.31	3.19
SKIP_ON	ENSSSCG0000000021	5	4412191	4412301	1.07	0.89	0.71	0.23	0.86	0.42	10.32	9.77	5.59	4.47	8.31	5.12
TSS	ENSSSCG0000000021	5	4435218	4435341	1.07	1.07	0.71	0.71	0.86	0.86	10.32	10.32	5.59	5.59	8.31	8.31
TTS	ENSSSCG0000000021	5	4399744	4400271	1.07	1.07	0.71	0.71	0.86	0.86	10.32	10.32	5.59	5.59	8.31	8.31
TSS	ENSSSCG0000000024	5	5015225	5015339	2.99	2.99	5.61	5.61	4.72	4.72	1.56	1.56	2.85	2.85	3.36	3.36

TTS	ENSSSCG00000000024	5	4909649	4909725	2.99	2.99	5.61	5.61	4.72	4.72	1.56	1.56	2.85	2.85	3.36	3.36
TSS	ENSSSCG00000000025	5	4898421	4898706	1.20	1.15	2.39	2.31	2.25	2.25	2.75	2.64	3.42	3.33	2.04	1.95
TTS	ENSSSCG00000000025	5	4870350	4874668	1.20	1.20	2.39	2.39	2.25	2.25	2.75	2.75	3.42	3.42	2.04	2.04
TSS	ENSSSCG00000000026	5	5131162	5131504	0.16	0.16	0.04	0.04	0.05	0.05	0.17	0.17	0.14	0.14	0.02	0.02
TTS	ENSSSCG00000000026	5	5155495	5157857	0.16	0.16	0.04	0.04	0.05	0.05	0.17	0.17	0.14	0.14	0.02	0.02
TSS	ENSSSCG00000000028	5	5375714	5375861	0.64	0.64	0.32	0.32	0.32	0.32	5.96	5.96	3.71	3.71	4.13	4.13
TTS	ENSSSCG00000000028	5	5407724	5408124	0.64	0.64	0.32	0.32	0.32	0.32	5.96	5.96	3.71	3.71	4.13	4.13
SKIP_ON	ENSSSCG00000000029	5	5635705	5635794	11.30	2.73	3.39	0.76	5.19	0.74	5.38	1.03	6.74	1.63	4.60	1.44
XAE	ENSSSCG00000000029	5	5661874	5662010	11.30	2.73	3.39	0.76	5.19	0.74	5.38	1.03	6.74	1.63	4.60	1.44
SKIP_OFF	ENSSSCG00000000029	5	5635705	5635794	11.30	8.57	3.39	2.62	5.19	4.45	5.38	4.35	6.74	5.11	4.60	3.16
XAE	ENSSSCG00000000029	5	5661874	5661996	11.30	8.57	3.39	2.62	5.19	4.45	5.38	4.35	6.74	5.11	4.60	3.16
TSS	ENSSSCG00000000029	5	5561606	5561693	11.30	11.30	3.39	3.39	5.19	5.19	5.38	5.38	6.74	6.74	4.60	4.60
TTS	ENSSSCG00000000029	5	5686689	5686841	11.30	11.30	3.39	3.39	5.19	5.19	5.38	5.38	6.74	6.74	4.60	4.60
TTS	ENSSSCG00000000031	5	5751451	5751692	4.58	4.00	3.06	2.72	4.85	4.28	7.54	6.64	5.44	4.81	7.81	6.71
TSS	ENSSSCG00000000031	5	5742162	5742681	4.58	4.58	3.06	3.06	4.85	4.85	7.54	7.54	5.44	5.44	7.81	7.81
SKIP_OFF	ENSSSCG00000000033	5	5726251	5726461	23.05	0.00	37.66	0.00	40.57	0.00	62.79	0.00	49.57	0.00	61.56	0.00
SKIP_ON	ENSSSCG00000000033	5	5726251	5726461	23.05	23.05	37.66	37.66	40.57	40.57	62.79	62.79	49.57	49.57	61.56	61.56
TSS	ENSSSCG00000000033	5	5735059	5735131	23.05	23.05	37.66	37.66	40.57	40.57	62.79	62.79	49.57	49.57	61.56	61.56
TTS	ENSSSCG00000000033	5	5723190	5723599	23.05	23.05	37.66	37.66	40.57	40.57	62.79	62.79	49.57	49.57	61.56	61.56
TSS	ENSSSCG00000000034	5	5701532	5701799	46.67	46.67	32.17	32.17	34.27	34.27	34.43	34.43	33.22	33.22	39.13	39.13
TTS	ENSSSCG00000000034	5	5717664	5718999	46.67	46.67	32.17	32.17	34.27	34.27	34.43	34.43	33.22	33.22	39.13	39.13
SKIP_OFF	ENSSSCG00000000035	5	5800250	5800322	14.07	0.00	9.73	0.00	12.01	1.19	20.08	0.18	17.23	0.60	27.30	1.18
SKIP_ON	ENSSSCG00000000035	5	5800250	5800322	14.07	13.98	9.73	9.59	12.01	10.73	20.08	19.76	17.23	16.46	27.30	26.03
TSS	ENSSSCG00000000035	5	5793781	5793921	14.07	13.98	9.73	9.59	12.01	11.93	20.08	19.94	17.23	17.05	27.30	27.20
TTS	ENSSSCG00000000035	5	5827344	5827632	14.07	14.07	9.73	9.73	12.01	12.01	20.08	20.08	17.23	17.23	27.30	27.30
TSS	ENSSSCG00000000036	5	5823811	5824711	20.25	0.33	18.21	0.07	17.29	0.27	23.95	0.52	21.38	0.51	21.02	0.43
TSS	ENSSSCG00000000036	5	5899217	5899310	20.25	2.63	18.21	0.59	17.29	1.45	23.95	4.75	21.38	2.24	21.02	0.00
TTS	ENSSSCG00000000036	5	5984704	5985167	20.25	2.21	18.21	2.72	17.29	1.76	23.95	3.11	21.38	2.04	21.02	2.82
SKIP_OFF	ENSSSCG00000000036	5	5979833	5979955	20.25	4.06	18.21	1.50	17.29	1.29	23.95	5.28	21.38	5.11	21.02	3.12
SKIP_ON	ENSSSCG00000000036	5	5890224	5890285	20.25	6.28	18.21	4.23	17.29	3.05	23.95	8.38	21.38	7.15	21.02	5.95
SKIP_OFF	ENSSSCG00000000036	5	5890224	5890285	20.25	11.01	18.21	13.32	17.29	12.52	23.95	10.30	21.38	11.48	21.02	14.64
SKIP_ON	ENSSSCG00000000036	5	5979833	5979955	20.25	16.19	18.21	16.71	17.29	16.00	23.95	18.67	21.38	16.26	21.02	17.90
TSS	ENSSSCG00000000036	5	5853382	5853549	20.25	17.29	18.21	17.55	17.29	15.57	23.95	18.68	21.38	18.63	21.02	20.59
SKIP_OFF	ENSSSCG00000000037	5	6047749	6047870	53.00	0.12	45.96	0.34	26.79	0.12	24.78	0.00	28.97	0.23	38.26	0.11
TSS	ENSSSCG00000000037	5	5993808	5993944	53.00	0.55	45.96	1.32	26.79	0.24	24.78	0.31	28.97	0.46	38.26	0.80
SKIP_OFF	ENSSSCG00000000037	5	6033636	6033767	53.00	1.80	45.96	0.81	26.79	0.96	24.78	0.59	28.97	1.41	38.26	0.26
SKIP_ON	ENSSSCG00000000037	5	6033636	6033767	53.00	51.20	45.96	45.15	26.79	25.83	24.78	24.19	28.97	27.56	38.26	38.00
TSS	ENSSSCG00000000037	5	5994094	5994345	53.00	52.46	45.96	44.65	26.79	26.55	24.78	24.47	28.97	28.51	38.26	37.46
SKIP_ON	ENSSSCG00000000037	5	6047749	6047870	53.00	52.89	45.96	45.62	26.79	26.67	24.78	24.78	28.97	28.74	38.26	38.14
TTS	ENSSSCG00000000037	5	6049462	6049479	53.00	53.00	45.96	45.96	26.79	26.79	24.78	24.78	28.97	28.97	38.26	38.26
TSS	ENSSSCG00000000038	5	6152922	6152942	139.14	139.14	147.27	147.27	162.53	162.53	50.47	50.47	60.85	60.85	74.59	74.59
TTS	ENSSSCG00000000038	5	6169090	6169262	139.14	139.14	147.27	147.27	162.53	162.53	50.47	50.47	60.85	60.85	74.59	74.59
TSS	ENSSSCG00000000039	5	6179625	6182078	39.79	0.23	32.11	0.56	37.97	1.00	39.07	1.12	34.67	1.18	39.59	0.96
SKIP_OFF	ENSSSCG00000000039	5	6189355	6189447	39.79	1.37	32.11	2.62	37.97	0.51	39.07	1.75	34.67	0.57	39.59	0.31
SKIP_ON	ENSSSCG00000000039	5	6189355	6189447	39.79	38.42	32.11	29.49	37.97	37.46	39.07	37.32	34.67	34.10	39.59	39.29
TSS	ENSSSCG00000000039	5	6174559	6174617	39.79	39.56	32.11	31.55	37.97	36.97	39.07	37.95	34.67	33.49	39.59	38.64
TTS	ENSSSCG00000000039	5	6199634	6202081	39.79	39.79	32.11	32.11	37.97	37.97	39.07	39.07	34.67	34.67	39.59	39.59
TTS	ENSSSCG00000000040	5	6623314	6623373	0.67	0.00	0.63	0.00	0.42	0.00	0.54	0.02	0.48	0.00	0.14	0.00
TTS	ENSSSCG00000000040	5	6634209	6635113	0.67	0.12	0.63	0.24	0.42	0.14	0.54	0.16	0.48	0.04	0.14	0.07
TTS	ENSSSCG00000000040	5	6630062	6633091	0.67	0.56	0.63	0.27	0.42	0.24	0.54	0.28	0.48	0.40	0.14	0.07

TSS	ENSSSCG00000000040	5	6653892	6654438	0.67	0.67	0.63	0.51	0.42	0.38	0.54	0.46	0.48	0.44	0.14	0.14
TSS	ENSSSCG00000000045	5	6562051	6562229	17.47	17.47	24.38	24.38	22.02	22.02	16.04	16.04	14.96	14.96	16.97	16.97
TTS	ENSSSCG00000000045	5	6566714	6567647	17.47	17.47	24.38	24.38	22.02	22.02	16.04	16.04	14.96	14.96	16.97	16.97
TSS	ENSSSCG00000000046	5	6538907	6539274	1.29	1.29	0.26	0.26	0.78	0.78	1.99	1.99	0.22	0.22	0.48	0.48
TTS	ENSSSCG00000000046	5	6543392	6543746	1.29	1.29	0.26	0.26	0.78	0.78	1.99	1.99	0.22	0.22	0.48	0.48
TSS	ENSSSCG00000000050	5	6579988	6581440	23.37	2.33	24.73	1.57	34.59	4.33	33.56	2.80	30.41	4.30	40.19	3.30
SKIP_ON	ENSSSCG00000000050	5	6579322	6579652	23.37	4.96	24.73	4.73	34.59	7.63	33.56	6.40	30.41	6.20	40.19	6.11
TSS	ENSSSCG00000000050	5	6580141	6580156	23.37	4.73	24.73	7.50	34.59	7.93	33.56	12.08	30.41	8.93	40.19	11.92
SKIP_OFF	ENSSSCG00000000050	5	6579322	6579652	23.37	11.35	24.73	10.92	34.59	14.71	33.56	12.29	30.41	10.98	40.19	18.84
TSS	ENSSSCG00000000050	5	6571005	6571411	23.37	16.31	24.73	15.66	34.59	22.34	33.56	18.69	30.41	17.18	40.19	24.96
TTS	ENSSSCG00000000050	5	6587416	6588054	23.37	23.37	24.73	24.73	34.59	34.59	33.56	33.56	30.41	30.41	40.19	40.19
XSKIP_ON	ENSSSCG00000000058	5	6891302	6891452	95.20	0.10	85.87	0.00	67.38	0.10	84.05	0.00	78.20	0.00	83.71	0.32
TTS	ENSSSCG00000000058	5	6899232	6900015	95.20	4.99	85.87	3.11	67.38	1.34	84.05	4.35	78.20	4.46	83.71	4.58
TSS	ENSSSCG00000000058	5	6896168	6896305	95.20	15.61	85.87	14.01	67.38	7.38	84.05	5.59	78.20	10.98	83.71	14.12
XSKIP_OFF	ENSSSCG00000000058	5	6891302	6891452	95.20	79.49	85.87	71.86	67.38	59.90	84.05	78.46	78.20	67.22	83.71	69.27
TSS	ENSSSCG00000000058	5	6891002	6891135	95.20	79.59	85.87	71.86	67.38	60.00	84.05	78.46	78.20	67.22	83.71	69.59
TSS	ENSSSCG00000000059	5	6928856	6929220	9.51	0.73	7.82	0.09	8.61	0.16	10.44	1.22	10.73	1.78	14.42	3.12
TTS	ENSSSCG00000000059	5	6899725	6903905	9.51	9.51	7.82	7.82	8.61	8.61	10.44	10.44	10.73	10.73	14.42	14.42
TSS	ENSSSCG00000000061	5	6964999	6965417	12.66	12.66	12.75	12.75	11.91	11.91	6.67	6.67	13.21	13.21	10.99	10.99
TTS	ENSSSCG00000000061	5	6975371	6975904	12.66	12.66	12.75	12.75	11.91	11.91	6.67	6.67	13.21	13.21	10.99	10.99
TSS	ENSSSCG00000000062	5	6988230	6988352	69.29	69.29	77.23	77.23	35.14	35.14	13.00	13.00	48.53	48.53	20.19	20.19
TTS	ENSSSCG00000000062	5	6976277	6977934	69.29	69.29	77.23	77.23	35.14	35.14	13.00	13.00	48.53	48.53	20.19	20.19
SKIP_OFF	ENSSSCG00000000063	5	7010279	7010365	6.21	0.00	5.15	0.78	6.85	3.44	5.91	1.44	6.07	0.63	5.46	0.61
SKIP_ON	ENSSSCG00000000063	5	7010279	7010365	6.21	6.21	5.15	4.37	6.85	3.41	5.91	4.47	6.07	5.44	5.46	4.85
TSS	ENSSSCG00000000063	5	6999981	7000890	6.21	6.21	5.15	5.15	6.85	6.85	5.91	5.91	6.07	6.07	5.46	5.46
TTS	ENSSSCG00000000063	5	7013122	7014430	6.21	6.21	5.15	5.15	6.85	6.85	5.91	5.91	6.07	6.07	5.46	5.46
TSS	ENSSSCG00000000064	5	7070959	7071023	46.45	46.45	43.76	43.76	46.98	46.98	47.44	47.44	41.86	41.86	57.68	57.68
TTS	ENSSSCG00000000064	5	7014383	7014812	46.45	46.45	43.76	43.76	46.98	46.98	47.44	47.44	41.86	41.86	57.68	57.68
TSS	ENSSSCG00000000066	5	7277488	7277678	3.69	3.69	2.93	2.93	3.39	3.39	3.32	3.32	2.97	2.97	4.06	4.06
TTS	ENSSSCG00000000066	5	7253385	7258495	3.69	3.69	2.93	2.93	3.39	3.39	3.32	3.32	2.97	2.97	4.06	4.06
MIR_ON	ENSSSCG00000000067	5	7250059	7250263	0.65	0.00	0.42	0.00	1.20	0.00	0.95	0.00	1.36	0.00	1.06	0.00
TSS	ENSSSCG00000000067	5	7246700	7246728	0.65	0.00	0.42	0.00	1.20	0.00	0.95	0.00	1.36	0.00	1.06	0.00
MIR_OFF	ENSSSCG00000000067	5	7250059	7250263	0.65	0.65	0.42	0.42	1.20	1.20	0.95	0.95	1.36	1.36	1.06	1.06
TTS	ENSSSCG00000000067	5	7252705	7252936	0.65	0.65	0.42	0.42	1.20	1.20	0.95	0.95	1.36	1.36	1.06	1.06
TTS	ENSSSCG00000000068	5	7312262	7312843	13.03	0.00	15.91	0.26	14.21	0.12	15.36	0.00	14.40	0.00	12.65	0.00
TTS	ENSSSCG00000000068	5	7312262	7314457	13.03	13.03	15.91	15.66	14.21	14.09	15.36	15.36	14.40	14.40	12.65	12.65
TSS	ENSSSCG00000000068	5	7373368	7373440	13.03	13.03	15.91	15.91	14.21	14.21	15.36	15.36	14.40	14.40	12.65	12.65
AE	ENSSSCG00000000071	5	7614532	7614665	123.98	54.26	120.04	56.49	130.97	60.53	134.62	54.89	120.37	52.26	120.28	54.15
TSS	ENSSSCG00000000071	5	7583048	7583427	123.98	54.26	120.04	56.49	130.97	60.53	134.62	54.89	120.37	52.26	120.28	54.15
TTS	ENSSSCG00000000071	5	7616178	7616382	123.98	54.26	120.04	56.49	130.97	60.53	134.62	54.89	120.37	52.26	120.28	54.15
AE	ENSSSCG00000000071	5	7614556	7614665	123.98	69.72	120.04	63.55	130.97	70.45	134.62	79.74	120.37	68.11	120.28	66.13
TSS	ENSSSCG00000000071	5	7583095	7583605	123.98	69.72	120.04	63.55	130.97	70.45	134.62	79.74	120.37	68.11	120.28	66.13
MSKIP_OFF	ENSSSCG00000000072	5	7647344	7649331	33.55	7.08	39.33	9.02	38.61	3.29	12.00	3.00	19.71	2.69	27.88	5.22
TTS	ENSSSCG00000000072	5	7671247	7671931	33.55	9.86	39.33	15.76	38.61	17.22	12.00	4.85	19.71	8.03	27.88	11.57
MSKIP_ON	ENSSSCG00000000072	5	7647344	7649331	33.55	9.97	39.33	15.82	38.61	17.50	12.00	5.02	19.71	8.08	27.88	11.69
MSKIP_ON	ENSSSCG00000000072	5	7643801	7647410	33.55	9.97	39.33	15.82	38.61	17.50	12.00	5.02	19.71	8.08	27.88	11.69
MSKIP_OFF	ENSSSCG00000000072	5	7643801	7647410	33.55	16.50	39.33	14.50	38.61	17.81	12.00	3.98	19.71	8.93	27.88	10.97
TSS	ENSSSCG00000000072	5	7622247	7622833	33.55	33.55	39.33	39.33	38.61	38.61	12.00	12.00	19.71	19.71	27.88	27.88
TSS	ENSSSCG00000000073	5	7673983	7673997	0.65	0.65	0.79	0.79	0.16	0.16	0.00	0.00	0.00	0.00	0.00	0.00
TTS	ENSSSCG00000000073	5	7674834	7675196	0.65	0.65	0.79	0.79	0.16	0.16	0.00	0.00	0.00	0.00	0.00	0.00

TSS	ENSSSCG00000000074	5	7738489	7738847	0.22	0.00	0.56	0.00	0.23	0.00	0.03	0.00	0.00	0.09	0.00	
TSS	ENSSSCG00000000074	5	7737483	7737597	0.22	0.00	0.56	0.00	0.23	0.00	0.03	0.00	0.00	0.09	0.00	
TTS	ENSSSCG00000000074	5	7734250	7737291	0.22	0.00	0.56	0.00	0.23	0.00	0.03	0.00	0.00	0.09	0.00	
TSS	ENSSSCG00000000075	5	7933873	7935363	8.26	0.07	7.99	0.00	14.93	0.17	8.09	0.18	7.19	0.29	10.60	0.07
TSS	ENSSSCG00000000075	5	7874347	7874622	8.26	1.08	7.99	0.52	14.93	6.76	8.09	0.49	7.19	0.42	10.60	1.79
SKIP_OFF	ENSSSCG00000000075	5	7813518	7813579	8.26	2.12	7.99	3.63	14.93	2.76	8.09	2.11	7.19	1.34	10.60	3.01
SKIP_ON	ENSSSCG00000000075	5	7813518	7813579	8.26	5.00	7.99	3.84	14.93	5.23	8.09	5.30	7.19	5.14	10.60	5.74
TSS	ENSSSCG00000000075	5	7777044	7777303	8.26	7.11	7.99	7.47	14.93	7.99	8.09	7.41	7.19	6.48	10.60	8.75
TTS	ENSSSCG00000000075	5	7974429	7975923	8.26	8.26	7.99	7.99	14.93	14.93	8.09	8.09	7.19	7.19	10.60	10.60
SKIP_OFF	ENSSSCG00000000076	5	7976847	7976907	6.87	0.20	5.74	0.00	7.59	0.00	8.06	0.00	7.12	0.00	10.59	0.00
SKIP_ON	ENSSSCG00000000076	5	7976847	7976907	6.87	6.67	5.74	5.74	7.59	7.59	8.06	8.06	7.12	7.12	10.59	10.59
TSS	ENSSSCG00000000076	5	8017664	8017703	6.87	6.87	5.74	5.74	7.59	7.59	8.06	8.06	7.12	7.12	10.59	10.59
TTS	ENSSSCG00000000076	5	7976099	7976603	6.87	6.87	5.74	5.74	7.59	7.59	8.06	8.06	7.12	7.12	10.59	10.59
TSS	ENSSSCG00000000077	5	8045310	8045528	12.22	12.22	9.97	9.97	13.44	13.44	14.19	14.19	14.02	14.02	14.44	14.44
TTS	ENSSSCG00000000077	5	8027588	8027885	12.22	12.22	9.97	9.97	13.44	13.44	14.19	14.19	14.02	14.02	14.44	14.44
MSKIP_ON	ENSSSCG00000000078	5	8098068	8102846	2.45	0.00	3.29	0.00	3.40	0.00	3.94	0.00	4.60	0.01	3.88	0.00
SKIP_ON	ENSSSCG00000000078	5	8102676	8102846	2.45	0.00	3.29	0.00	3.40	0.00	3.94	0.00	4.60	0.01	3.88	0.00
TSS	ENSSSCG00000000078	5	8242528	8242601	2.45	0.00	3.29	0.00	3.40	0.00	3.94	0.00	4.60	0.01	3.88	0.00
TSS	ENSSSCG00000000078	5	8175608	8175663	2.45	0.00	3.29	0.00	3.40	0.00	3.94	0.00	4.60	0.00	3.88	0.00
MSKIP_OFF	ENSSSCG00000000078	5	8098068	8102846	2.45	0.16	3.29	0.27	3.40	0.00	3.94	0.45	4.60	0.18	3.88	0.49
SKIP_OFF	ENSSSCG00000000078	5	8098068	8098193	2.45	0.16	3.29	0.27	3.40	0.00	3.94	0.45	4.60	0.18	3.88	0.49
TSS	ENSSSCG00000000078	5	8202378	8202390	2.45	0.59	3.29	0.65	3.40	0.44	3.94	0.37	4.60	0.71	3.88	0.77
TTS	ENSSSCG00000000078	5	8064075	8064129	2.45	0.59	3.29	0.65	3.40	0.44	3.94	0.37	4.60	0.71	3.88	0.77
TSS	ENSSSCG00000000078	5	8311038	8311105	2.45	0.54	3.29	0.86	3.40	1.05	3.94	0.50	4.60	1.02	3.88	0.59
TSS	ENSSSCG00000000078	5	8200252	8200256	2.45	1.32	3.29	1.79	3.40	1.92	3.94	3.08	4.60	2.86	3.88	2.52
SKIP_OFF	ENSSSCG00000000078	5	8102676	8102846	2.45	2.29	3.29	3.03	3.40	3.40	3.94	3.50	4.60	4.41	3.88	3.39
SKIP_ON	ENSSSCG00000000078	5	8098068	8098193	2.45	2.29	3.29	3.03	3.40	3.40	3.94	3.50	4.60	4.41	3.88	3.39
TSS	ENSSSCG00000000079	5	8354168	8354723	0.31	0.31	0.07	0.07	0.07	0.07	1.70	1.70	1.56	1.56	2.81	2.81
TTS	ENSSSCG00000000079	5	8320978	8325458	0.31	0.31	0.07	0.07	0.07	0.07	1.70	1.70	1.56	1.56	2.81	2.81
TSS	ENSSSCG00000000080	5	8444825	8445071	0.31	0.04	0.28	0.02	0.10	0.01	0.92	0.10	0.99	0.15	0.57	0.13
TTS	ENSSSCG00000000080	5	8356286	8358681	0.31	0.04	0.28	0.02	0.10	0.01	0.92	0.10	0.99	0.15	0.57	0.13
TSS	ENSSSCG00000000080	5	8417023	8417248	0.31	0.27	0.28	0.26	0.10	0.09	0.92	0.82	0.99	0.83	0.57	0.43
TSS	ENSSSCG00000000082	5	8709978	8701228	0.33	0.33	0.20	0.20	0.92	0.92	0.47	0.47	0.29	0.29	0.22	0.22
TTS	ENSSSCG00000000082	5	8597053	8597560	0.33	0.33	0.20	0.20	0.92	0.92	0.47	0.47	0.29	0.29	0.22	0.22
TSS	ENSSSCG00000000083	5	8735382	8735515	27.22	27.22	20.69	20.69	22.37	22.37	20.60	20.60	20.55	20.55	28.30	28.30
TTS	ENSSSCG00000000083	5	8738352	8738817	27.22	27.22	20.69	20.69	22.37	22.37	20.60	20.60	20.55	20.55	28.30	28.30
TTS	ENSSSCG00000000084	5	8738880	8743669	198.68	1.22	214.54	1.39	153.47	1.02	100.85	0.72	95.19	0.60	129.63	0.61
TSS	ENSSSCG00000000084	5	8744854	8745368	198.68	197.46	214.54	213.14	153.47	152.45	100.85	100.13	95.19	94.58	129.63	129.02
TTS	ENSSSCG00000000084	5	8738880	8743867	198.68	197.46	214.54	213.14	153.47	152.45	100.85	100.13	95.19	94.58	129.63	129.02
TSS	ENSSSCG00000000087	5	8852688	8852850	5.47	5.47	4.72	4.61	6.46	6.28	6.21	6.21	5.22	5.13	6.43	6.43
TTS	ENSSSCG00000000087	5	8824675	8829684	5.47	5.47	4.72	4.72	6.46	6.46	6.21	6.21	5.22	5.22	6.43	6.43
TSS	ENSSSCG00000000089	5	8927875	8927953	137.73	137.73	125.97	125.97	102.19	102.19	117.65	117.65	109.98	109.98	127.46	127.46
TTS	ENSSSCG00000000089	5	8923674	8923910	137.73	137.73	125.97	125.97	102.19	102.19	117.65	117.65	109.98	109.98	127.46	127.46
TSS	ENSSSCG00000000090	5	9070353	9070603	2.17	2.17	4.09	4.09	4.01	4.01	6.81	6.81	5.46	5.46	3.24	3.24
TTS	ENSSSCG00000000090	5	9087316	9087634	2.17	2.17	4.09	4.09	4.01	4.01	6.81	6.81	5.46	5.46	3.24	3.24
MSKIP_OFF	ENSSSCG00000000091	5	9100881	9110036	5.63	0.00	3.95	0.00	5.48	0.00	6.90	0.00	10.55	0.49	9.36	0.42
TSS	ENSSSCG00000000091	5	9105621	9105778	5.63	0.00	3.95	0.13	5.48	0.00	6.90	0.68	10.55	1.36	9.36	0.85
TTS	ENSSSCG00000000091	5	9108471	9108533	5.63	0.15	3.95	0.00	5.48	0.00	6.90	0.02	10.55	0.00	9.36	0.62
TTS	ENSSSCG00000000091	5	9108164	9108746	5.63	1.10	3.95	0.67	5.48	1.00	6.90	0.87	10.55	1.31	9.36	0.95
MSKIP_ON	ENSSSCG00000000091	5	9100881	9110036	5.63	0.86	3.95	0.45	5.48	1.63	6.90	2.37	10.55	2.12	9.36	2.44

XSKIP_ON	ENSSSCG00000000091	5	9105854	9105917	5.63	0.86	3.95	0.45	5.48	1.63	6.90	2.37	10.55	2.12	9.36	2.44
TSS	ENSSSCG00000000091	5	9107252	9107471	5.63	1.17	3.95	0.64	5.48	1.60	6.90	1.41	10.55	3.43	9.36	2.53
MSKIP_ON	ENSSSCG00000000091	5	9100881	9110036	5.63	2.35	3.95	2.06	5.48	1.25	6.90	1.55	10.55	1.84	9.36	1.54
XSKIP_OFF	ENSSSCG00000000091	5	9105854	9105917	5.63	2.35	3.95	2.06	5.48	1.25	6.90	1.55	10.55	1.84	9.36	1.54
TSS	ENSSSCG00000000091	5	9115817	9116450	5.63	4.46	3.95	3.18	5.48	3.88	6.90	4.82	10.55	5.76	9.36	5.98
TSS	ENSSSCG00000000092	5	9207671	9208255	0.53	0.53	0.26	0.26	0.28	0.28	2.90	2.90	0.45	0.45	1.14	1.14
TTS	ENSSSCG00000000092	5	9226160	9230351	0.53	0.53	0.26	0.26	0.28	0.28	2.90	2.90	0.45	0.45	1.14	1.14
TSS	ENSSSCG00000000093	5	9239960	9244886	14.27	0.81	7.79	0.48	11.44	0.91	40.66	2.18	32.50	3.10	46.27	3.38
TSS	ENSSSCG00000000093	5	9236625	9236733	14.27	13.46	7.79	7.32	11.44	10.54	40.66	38.48	32.50	29.40	46.27	42.89
TTS	ENSSSCG00000000093	5	9247707	9248726	14.27	14.27	7.79	7.79	11.44	11.44	40.66	40.66	32.50	32.50	46.27	46.27
SKIP_OFF	ENSSSCG00000000094	5	9279042	9279137	50.52	0.00	42.51	0.32	42.86	0.00	41.05	0.00	59.27	0.81	41.16	0.39
SKIP_ON	ENSSSCG00000000094	5	9275767	9275881	50.52	0.20	42.51	0.53	42.86	0.17	41.05	1.54	59.27	0.39	41.16	0.00
TSS	ENSSSCG00000000094	5	9273228	9273407	50.52	8.71	42.51	6.52	42.86	7.26	41.05	13.68	59.27	12.88	41.16	11.38
TSS	ENSSSCG00000000094	5	9273131	9273493	50.52	41.81	42.51	35.98	42.86	35.60	41.05	27.37	59.27	46.39	41.16	29.78
SKIP_OFF	ENSSSCG00000000094	5	9275767	9275881	50.52	50.32	42.51	41.98	42.86	42.69	41.05	39.51	59.27	58.88	41.16	41.16
SKIP_ON	ENSSSCG00000000094	5	9279042	9279137	50.52	50.52	42.51	42.19	42.86	42.86	41.05	41.05	59.27	58.46	41.16	40.78
TTS	ENSSSCG00000000094	5	9291646	9293255	50.52	50.52	42.51	42.51	42.86	42.86	41.05	41.05	59.27	59.27	41.16	41.16
XAE	ENSSSCG00000000095	5	9316163	9318717	22.71	1.75	20.81	1.97	18.42	1.98	20.11	1.80	19.17	1.96	20.67	2.03
XSKIP_ON	ENSSSCG00000000095	5	9316163	9318717	22.71	1.75	20.81	1.97	18.42	1.98	20.11	1.80	19.17	1.96	20.67	2.03
XSKIP_ON	ENSSSCG00000000095	5	9319847	9319874	22.71	1.75	20.81	1.97	18.42	1.98	20.11	1.80	19.17	1.96	20.67	2.03
AE	ENSSSCG00000000095	5	9319707	9319874	22.71	2.95	20.81	2.11	18.42	1.65	20.11	2.00	19.17	2.31	20.67	1.24
TSS	ENSSSCG00000000095	5	9321646	9321899	22.71	2.95	20.81	2.11	18.42	1.65	20.11	2.00	19.17	2.31	20.67	1.24
XAE	ENSSSCG00000000095	5	9319707	9319874	22.71	2.95	20.81	2.11	18.42	1.65	20.11	2.00	19.17	2.31	20.67	1.24
SKIP_OFF	ENSSSCG00000000095	5	9319847	9319874	22.71	3.08	20.81	2.63	18.42	1.10	20.11	2.39	19.17	1.62	20.67	3.01
XSKIP_OFF	ENSSSCG00000000095	5	9319847	9319874	22.71	3.08	20.81	2.63	18.42	1.10	20.11	2.39	19.17	1.62	20.67	3.01
TSS	ENSSSCG00000000095	5	9318940	9319874	22.71	2.85	20.81	3.13	18.42	3.68	20.11	3.41	19.17	3.15	20.67	3.03
TTS	ENSSSCG00000000095	5	9247203	9247289	22.71	2.85	20.81	3.13	18.42	3.68	20.11	3.41	19.17	3.15	20.67	3.03
SKIP_ON	ENSSSCG00000000095	5	9316163	9316274	22.71	8.89	20.81	7.86	18.42	6.43	20.11	7.80	19.17	7.08	20.67	7.29
XAE	ENSSSCG00000000095	5	9316163	9316274	22.71	8.89	20.81	7.86	18.42	6.43	20.11	7.80	19.17	7.08	20.67	7.29
SKIP_OFF	ENSSSCG00000000095	5	9316163	9316274	22.71	12.08	20.81	10.98	18.42	10.01	20.11	10.51	19.17	10.12	20.67	11.34
SKIP_ON	ENSSSCG00000000095	5	9319847	9319874	22.71	12.08	20.81	10.98	18.42	10.01	20.11	10.51	19.17	10.12	20.67	11.34
XSKIP_OFF	ENSSSCG00000000095	5	9316163	9318717	22.71	12.08	20.81	10.98	18.42	10.01	20.11	10.51	19.17	10.12	20.67	11.34
AE	ENSSSCG00000000095	5	9319847	9319874	22.71	13.83	20.81	12.95	18.42	11.99	20.11	12.31	19.17	12.09	20.67	13.38
XAE	ENSSSCG00000000095	5	9319847	9319874	22.71	13.83	20.81	12.95	18.42	11.99	20.11	12.31	19.17	12.09	20.67	13.38
TSS	ENSSSCG00000000095	5	9322033	9322127	22.71	16.91	20.81	15.57	18.42	13.09	20.11	14.70	19.17	13.71	20.67	16.39
TSS	ENSSSCG00000000097	5	9357847	9358142	45.08	45.08	37.06	37.06	47.38	47.38	48.48	48.48	46.03	46.03	62.40	62.40
TTS	ENSSSCG00000000097	5	9336129	9336848	45.08	45.08	37.06	37.06	47.38	47.38	48.48	48.48	46.03	46.03	62.40	62.40
TSS	ENSSSCG00000000103	5	9433058	9433109	0.04	0.04	0.00	0.00	0.04	0.04	0.28	0.28	0.22	0.22	0.16	0.16
TTS	ENSSSCG00000000103	5	9469247	9470549	0.04	0.04	0.00	0.00	0.04	0.04	0.28	0.28	0.22	0.22	0.16	0.16
IR_OFF	ENSSSCG00000000104	5	9494087	9494136	181.98	2.20	174.74	2.17	210.09	2.75	202.55	3.17	198.21	2.93	155.27	1.17
SKIP_ON	ENSSSCG00000000104	5	9499278	9499513	181.98	37.49	174.74	24.64	210.09	70.46	202.55	45.57	198.21	61.78	155.27	43.26
SKIP_OFF	ENSSSCG00000000104	5	9499278	9499513	181.98	144.48	174.74	150.10	210.09	139.62	202.55	156.98	198.21	136.43	155.27	112.01
IR_ON	ENSSSCG00000000104	5	9494087	9494136	181.98	179.77	174.74	172.57	210.09	207.34	202.55	199.38	198.21	195.29	155.27	154.10
TSS	ENSSSCG00000000104	5	9485487	9486078	181.98	181.98	174.74	174.74	210.09	210.09	202.55	202.55	198.21	198.21	155.27	155.27
TTS	ENSSSCG00000000104	5	9502133	9505152	181.98	181.98	174.74	174.74	210.09	210.09	202.55	202.55	198.21	198.21	155.27	155.27
TSS	ENSSSCG00000000105	5	9515461	9515734	31.56	31.56	24.56	24.56	31.97	31.97	11.38	11.38	21.96	21.96	31.64	31.64
TTS	ENSSSCG00000000105	5	9505157	9506113	31.56	31.56	24.56	24.56	31.97	31.97	11.38	11.38	21.96	21.96	31.64	31.64
TSS	ENSSSCG00000000107	5	9581997	9582104	22.62	1.62	26.46	2.27	15.77	0.47	14.98	0.58	17.09	1.63	14.09	0.72
SKIP_ON	ENSSSCG00000000107	5	9616485	9616545	22.62	1.63	26.46	2.27	15.77	0.47	14.98	0.58	17.09	1.63	14.09	0.72
TSS	ENSSSCG00000000107	5	9594464	9595355	22.62	1.79	26.46	2.17	15.77	1.84	14.98	2.68	17.09	1.47	14.09	1.94

SKIP_OFF	ENSSSCG00000000107	5	9607844	9607954	22.62	5.80	26.46	6.44	15.77	4.16	14.98	5.13	17.09	5.09	14.09	4.75
IR_ON	ENSSSCG00000000107	5	9613265	9613846	22.62	5.99	26.46	7.52	15.77	3.86	14.98	2.15	17.09	2.91	14.09	2.04
IR_OFF	ENSSSCG00000000107	5	9613265	9613846	22.62	7.42	26.46	8.05	15.77	5.43	14.98	4.43	17.09	5.99	14.09	4.64
TSS	ENSSSCG00000000107	5	9594987	9595143	22.62	7.42	26.46	8.05	15.77	5.43	14.98	4.43	17.09	5.99	14.09	4.64
SKIP_OFF	ENSSSCG00000000107	5	9616485	9616545	22.62	7.58	26.46	8.62	15.77	6.00	14.98	7.81	17.09	6.56	14.09	6.69
TTS	ENSSSCG00000000107	5	9619246	9623906	22.62	9.21	26.46	10.89	15.77	6.47	14.98	8.40	17.09	8.19	14.09	7.41
TTS	ENSSSCG00000000107	5	9614047	9615759	22.62	13.41	26.46	15.58	15.77	9.29	14.98	6.58	17.09	8.90	14.09	6.68
SKIP_ON	ENSSSCG00000000107	5	9607844	9607954	22.62	16.82	26.46	20.02	15.77	11.61	14.98	9.85	17.09	11.99	14.09	9.34
SKIP_OFF	ENSSSCG00000000108	5	9678805	9678825	12.32	3.53	14.96	4.15	12.50	3.45	9.87	3.05	9.41	2.60	11.73	4.16
TSS	ENSSSCG00000000108	5	9632919	9633382	12.32	3.53	14.96	4.15	12.50	3.45	9.87	3.05	9.41	2.60	11.73	4.16
SKIP_ON	ENSSSCG00000000108	5	9678805	9678825	12.32	5.17	14.96	7.13	12.50	6.02	9.87	4.58	9.41	3.45	11.73	5.08
TSS	ENSSSCG00000000108	5	9633555	9633704	12.32	8.78	14.96	10.81	12.50	9.05	9.87	6.82	9.41	6.81	11.73	7.57
TTS	ENSSSCG00000000108	5	9679734	9682473	12.32	8.70	14.96	11.28	12.50	9.46	9.87	7.63	9.41	6.05	11.73	9.24
SKIP_ON	ENSSSCG00000000110	5	9754176	9754337	2.82	0.22	3.81	0.52	4.89	0.53	4.11	0.92	5.32	0.94	4.51	1.21
SKIP_ON	ENSSSCG00000000110	5	9723857	9723891	2.82	0.28	3.81	0.35	4.89	0.90	4.11	0.63	5.32	0.00	4.51	0.97
XIR_OFF	ENSSSCG00000000110	5	9723891	9723991	2.82	0.28	3.81	0.35	4.89	0.90	4.11	0.63	5.32	0.00	4.51	0.97
TSS	ENSSSCG00000000110	5	9713968	9714050	2.82	1.18	3.81	0.75	4.89	1.45	4.11	1.33	5.32	0.24	4.51	0.40
XIR_ON	ENSSSCG00000000110	5	9723891	9723991	2.82	1.18	3.81	0.75	4.89	1.45	4.11	1.33	5.32	0.24	4.51	0.40
SKIP_OFF	ENSSSCG00000000110	5	9723857	9723891	2.82	1.14	3.81	2.20	4.89	2.01	4.11	1.23	5.32	4.14	4.51	1.94
TSS	ENSSSCG00000000110	5	9713765	9713927	2.82	1.42	3.81	2.55	4.89	2.91	4.11	1.86	5.32	4.14	4.51	2.91
SKIP_OFF	ENSSSCG00000000110	5	9754176	9754337	2.82	2.60	3.81	3.29	4.89	4.36	4.11	3.19	5.32	4.38	4.51	3.30
TTS	ENSSSCG00000000110	5	9777116	9778191	2.82	2.82	3.81	3.81	4.89	4.89	4.11	4.11	5.32	5.32	4.51	4.51
TSS	ENSSSCG00000000111	5	9778727	9778877	0.10	0.10	0.26	0.26	0.07	0.07	0.38	0.38	0.13	0.13	0.33	0.33
TTS	ENSSSCG00000000111	5	9799215	9799703	0.10	0.10	0.26	0.26	0.07	0.07	0.38	0.38	0.13	0.13	0.33	0.33
SKIP_OFF	ENSSSCG00000000114	5	9810675	9810725	4.39	0.00	4.00	0.00	5.32	0.00	9.51	0.00	7.35	0.00	9.64	0.00
TSS	ENSSSCG00000000114	5	9825363	9826322	4.39	1.90	4.00	1.44	5.32	1.85	9.51	3.33	7.35	2.13	9.64	3.06
TSS	ENSSSCG00000000114	5	9889814	9889930	4.39	2.47	4.00	2.52	5.32	3.46	9.51	6.11	7.35	5.11	9.64	6.47
SKIP_ON	ENSSSCG00000000114	5	9810675	9810725	4.39	4.39	4.00	4.00	5.32	5.32	9.51	9.51	7.35	7.35	9.64	9.64
TTS	ENSSSCG00000000114	5	9804946	9809287	4.39	4.39	4.00	4.00	5.32	5.32	9.51	9.51	7.35	7.35	9.64	9.64
TSS	ENSSSCG00000000116	5	9917590	9917744	35.56	35.56	30.33	30.33	29.36	29.36	38.25	38.25	29.83	29.83	32.14	32.14
TTS	ENSSSCG00000000116	5	9904948	9905540	35.56	35.56	30.33	30.33	29.36	29.36	38.25	38.25	29.83	29.83	32.14	32.14
TSS	ENSSSCG00000000117	5	9917751	9918044	2.94	2.94	1.51	1.51	1.83	1.83	21.52	21.52	17.22	17.22	23.73	23.73
TTS	ENSSSCG00000000117	5	9924014	9925634	2.94	2.94	1.51	1.51	1.83	1.83	21.52	21.52	17.22	17.22	23.73	23.73
IR_OFF	ENSSSCG00000000118	5	9939885	9939901	5.83	0.49	4.62	0.28	5.61	0.00	10.69	0.63	6.68	0.79	8.51	0.33
IR_ON	ENSSSCG00000000118	5	9939885	9939901	5.83	5.34	4.62	4.34	5.61	5.61	10.69	10.06	6.68	5.89	8.51	8.19
TSS	ENSSSCG00000000118	5	9956682	9956827	5.83	5.83	4.62	4.62	5.61	5.61	10.69	10.69	6.68	6.68	8.51	8.51
TTS	ENSSSCG00000000118	5	9927320	9927441	5.83	5.83	4.62	4.62	5.61	5.61	10.69	10.69	6.68	6.68	8.51	8.51
TSS	ENSSSCG00000000119	5	9993804	9994259	105.52	3.27	106.91	3.29	106.33	3.64	90.88	3.73	107.95	4.90	119.31	3.32
XIR_OFF	ENSSSCG00000000119	5	9993752	9993804	105.52	3.27	106.91	3.29	106.33	3.64	90.88	3.73	107.95	4.90	119.31	3.32
IR_ON	ENSSSCG00000000119	5	9976896	9976993	105.52	9.39	106.91	9.35	106.33	10.08	90.88	10.61	107.95	9.81	119.31	10.03
IR_OFF	ENSSSCG00000000119	5	9976896	9976993	105.52	96.13	106.91	97.56	106.33	96.24	90.88	80.27	107.95	98.14	119.31	109.28
TSS	ENSSSCG00000000119	5	9995961	9996260	105.52	102.25	106.91	103.62	106.33	102.69	90.88	87.16	107.95	103.05	119.31	115.99
XIR_ON	ENSSSCG00000000119	5	9993752	9993804	105.52	102.25	106.91	103.62	106.33	102.69	90.88	87.16	107.95	103.05	119.31	115.99
TTS	ENSSSCG00000000119	5	9966122	9970228	105.52	105.52	106.91	106.91	106.33	106.33	90.88	90.88	107.95	107.95	119.31	119.31
TSS	ENSSSCG00000000120	5	10003836	10004343	4.49	4.49	3.28	3.28	4.26	4.26	6.13	6.13	5.01	5.01	6.59	6.59
TTS	ENSSSCG00000000120	5	10016647	10018944	4.49	4.49	3.28	3.28	4.26	4.26	6.13	6.13	5.01	5.01	6.59	6.59
TSS	ENSSSCG00000000121	5	10025743	10026101	0.13	0.00	0.19	0.00	0.41	0.00	0.53	0.00	0.37	0.00	0.43	0.00
TTS	ENSSSCG00000000121	5	10024348	10025119	0.13	0.00	0.19	0.00	0.41	0.00	0.53	0.00	0.37	0.00	0.43	0.00
TSS	ENSSSCG00000000130	5	10521565	10521735	2.03	2.03	4.18	4.18	3.32	3.32	4.22	4.22	4.37	4.37	2.78	2.78
TTS	ENSSSCG00000000130	5	10489289	10491274	2.03	2.03	4.18	4.18	3.32	3.32	4.22	4.22	4.37	4.37	2.78	2.78

TSS	ENSSSCG00000000133	5	10750018	10750113	8.52	0.17	5.68	0.25	9.80	0.25	17.02	0.39	7.75	0.31	13.43	0.30
TSS	ENSSSCG00000000133	5	10746890	10747021	8.52	1.04	5.68	1.06	9.80	2.82	17.02	4.48	7.75	0.00	13.43	1.47
TSS	ENSSSCG00000000133	5	10749467	10749613	8.52	7.31	5.68	4.37	9.80	6.73	17.02	12.16	7.75	7.44	13.43	11.66
TTS	ENSSSCG00000000133	5	10759154	10759698	8.52	8.52	5.68	5.68	9.80	9.80	17.02	17.02	7.75	7.75	13.43	13.43
TSS	ENSSSCG00000000135	5	10718741	10718983	4.65	4.65	2.36	2.36	4.29	4.29	3.56	3.56	4.52	4.52	6.17	6.17
TTS	ENSSSCG00000000135	5	10707354	10708212	4.65	4.65	2.36	2.36	4.29	4.29	3.56	3.56	4.52	4.52	6.17	6.17
TSS	ENSSSCG00000000136	5	10840309	10840808	1.34	1.34	4.03	4.03	2.74	2.74	1.50	1.50	2.37	2.37	1.15	1.15
TTS	ENSSSCG00000000136	5	10814008	10819547	1.34	1.34	4.03	4.03	2.74	2.74	1.50	1.50	2.37	2.37	1.15	1.15
TSS	ENSSSCG00000000137	5	10992748	10992803	3.06	0.00	7.76	0.00	6.73	0.36	4.04	0.14	7.50	0.48	4.06	0.51
TSS	ENSSSCG00000000137	5	10897750	10898001	3.06	3.06	7.76	7.76	6.73	6.37	4.04	3.90	7.50	7.02	4.06	3.55
TTS	ENSSSCG00000000137	5	10878435	10878818	3.06	3.06	7.76	7.76	6.73	6.73	4.04	4.04	7.50	7.50	4.06	4.06
TSS	ENSSSCG00000000138	5	10954978	10955691	1.03	0.00	0.00	0.00	0.35	0.04	0.95	0.06	0.19	0.06	0.74	0.06
TSS	ENSSSCG00000000138	5	10953580	10953664	1.03	1.03	0.00	0.00	0.35	0.31	0.95	0.89	0.19	0.13	0.74	0.68
TTS	ENSSSCG00000000138	5	10973077	10974006	1.03	1.03	0.00	0.00	0.35	0.35	0.95	0.95	0.19	0.19	0.74	0.74
TSS	ENSSSCG00000000139	5	11000412	11000460	7.97	7.97	5.82	5.82	6.81	6.81	23.62	23.62	13.00	13.00	20.24	20.24
TTS	ENSSSCG00000000139	5	11015229	11015327	7.97	7.97	5.82	5.82	6.81	6.81	23.62	23.62	13.00	13.00	20.24	20.24
TSS	ENSSSCG00000000141	5	11213281	11213786	21.62	21.62	17.88	17.88	22.79	22.79	20.31	20.31	18.59	18.59	27.23	27.23
TTS	ENSSSCG00000000141	5	11229011	11233149	21.62	21.62	17.88	17.88	22.79	22.79	20.31	20.31	18.59	18.59	27.23	27.23
TSS	ENSSSCG00000000142	5	11233845	11235100	3.70	1.49	11.52	5.53	9.92	3.87	2.58	1.12	3.77	1.65	2.83	1.66
TSS	ENSSSCG00000000142	5	11233921	11233932	3.70	2.21	11.52	5.99	9.92	6.05	2.58	1.46	3.77	2.13	2.83	1.18
TTS	ENSSSCG00000000142	5	11250815	11254712	3.70	3.70	11.52	11.52	9.92	9.92	2.58	2.58	3.77	3.77	2.83	2.83
TSS	ENSSSCG00000000144	5	11264602	11265705	37.77	3.23	46.40	6.24	49.24	4.76	41.74	2.62	35.35	2.76	44.76	2.82
TSS	ENSSSCG00000000144	5	11264465	11264658	37.77	34.54	46.40	40.16	49.24	44.48	41.74	39.12	35.35	32.59	44.76	41.94
TTS	ENSSSCG00000000144	5	11276793	11277631	37.77	37.77	46.40	46.40	49.24	49.24	41.74	41.74	35.35	35.35	44.76	44.76
TTS	ENSSSCG00000000145	5	11417917	11417931	53.57	0.00	74.64	0.00	52.73	0.00	42.41	0.44	47.35	0.83	50.75	0.00
TTS	ENSSSCG00000000145	5	11454937	11455054	53.57	53.57	74.64	74.64	52.73	52.73	42.41	41.97	47.35	46.51	50.75	50.75
TSS	ENSSSCG00000000145	5	11398166	11398498	53.57	53.57	74.64	74.64	52.73	52.73	42.41	42.41	47.35	47.35	50.75	50.75
TSS	ENSSSCG00000000146	3	7019423	7019484	35.97	0.00	39.36	0.00	41.14	0.00	419.62	0.33	30.73	0.00	18.77	0.00
IR_OFF	ENSSSCG00000000146	3	7113077	7113213	35.97	0.57	39.36	2.35	41.14	0.92	419.62	15.96	30.73	1.68	18.77	1.17
SKIP_OFF	ENSSSCG00000000146	3	7138810	7138904	35.97	1.62	39.36	1.61	41.14	2.11	419.62	97.53	30.73	1.99	18.77	1.39
SKIP_ON	ENSSSCG00000000146	3	7139020	7139058	35.97	1.62	39.36	1.61	41.14	2.11	419.62	97.53	30.73	1.99	18.77	1.39
MSKIP_ON	ENSSSCG00000000146	3	7138810	7139058	35.97	6.48	39.36	11.33	41.14	10.35	419.62	15.68	30.73	7.17	18.77	2.90
SKIP_ON	ENSSSCG00000000146	3	7138810	7138904	35.97	6.48	39.36	11.33	41.14	10.35	419.62	15.68	30.73	7.17	18.77	2.90
SKIP_OFF	ENSSSCG00000000146	3	7075419	7075439	35.97	7.35	39.36	14.14	41.14	11.56	419.62	32.51	30.73	10.36	18.77	5.41
MSKIP_OFF	ENSSSCG00000000146	3	7138810	7139058	35.97	26.99	39.36	23.61	41.14	27.47	419.62	289.58	30.73	18.38	18.77	11.97
SKIP_OFF	ENSSSCG00000000146	3	7139020	7139058	35.97	26.99	39.36	23.61	41.14	27.47	419.62	289.58	30.73	18.38	18.77	11.97
SKIP_ON	ENSSSCG00000000146	3	7075419	7075439	35.97	28.61	39.36	25.22	41.14	29.58	419.62	387.10	30.73	20.38	18.77	13.36
TTS	ENSSSCG00000000146	3	7142366	7143088	35.97	35.10	39.36	36.55	41.14	39.93	419.62	402.78	30.73	27.54	18.77	16.26
IR_ON	ENSSSCG00000000146	3	7113077	7113213	35.97	35.39	39.36	37.01	41.14	40.22	419.62	403.65	30.73	29.05	18.77	17.60
TSS	ENSSSCG00000000146	3	7002706	7002821	35.97	35.97	39.36	39.36	41.14	41.14	419.62	419.28	30.73	30.73	18.77	18.77
TSS	ENSSSCG00000000148	5	11542534	11542607	0.94	0.09	1.48	0.10	0.64	0.24	2.57	0.53	1.50	0.29	1.57	0.39
XIR_ON	ENSSSCG00000000148	5	11516454	11516636	0.94	0.09	1.48	0.10	0.64	0.24	2.57	0.53	1.50	0.29	1.57	0.39
AE	ENSSSCG00000000148	5	11541362	11542628	0.94	0.35	1.48	0.70	0.64	0.05	2.57	0.17	1.50	0.31	1.57	0.08
SKIP_ON	ENSSSCG00000000148	5	11516636	11516677	0.94	0.35	1.48	0.70	0.64	0.05	2.57	0.17	1.50	0.31	1.57	0.08
XIR_OFF	ENSSSCG00000000148	5	11516454	11516636	0.94	0.35	1.48	0.70	0.64	0.05	2.57	0.17	1.50	0.31	1.57	0.08
AE	ENSSSCG00000000148	5	11541404	11542628	0.94	0.50	1.48	0.67	0.64	0.35	2.57	1.86	1.50	0.90	1.57	1.10
SKIP_OFF	ENSSSCG00000000148	5	11516636	11516677	0.94	0.50	1.48	0.67	0.64	0.35	2.57	1.86	1.50	0.90	1.57	1.10
TSS	ENSSSCG00000000148	5	11542768	11543023	0.94	0.85	1.48	1.37	0.64	0.40	2.57	2.03	1.50	1.21	1.57	1.18
TTS	ENSSSCG00000000148	5	11509336	11511176	0.94	0.94	1.48	1.48	0.64	0.64	2.57	2.57	1.50	1.50	1.57	1.57
TSS	ENSSSCG00000000152	5	11799218	11799676	20.19	0.00	21.61	0.00	29.15	0.19	22.90	0.25	19.59	0.00	20.68	0.00

MSKIP_OFF	ENSSSCG00000000152	5	11887743	11897527	20.19	0.12	21.61	0.00	29.15	0.13	22.90	0.00	19.59	0.00	20.68	0.06
SKIP_OFF	ENSSSCG00000000152	5	11897439	11897527	20.19	0.12	21.61	0.00	29.15	0.13	22.90	0.00	19.59	0.00	20.68	0.06
SKIP_ON	ENSSSCG00000000152	5	11887743	11887782	20.19	0.00	21.61	0.00	29.15	0.77	22.90	0.00	19.59	0.00	20.68	0.00
TSS	ENSSSCG00000000152	5	11752664	11752875	20.19	0.14	21.61	0.28	29.15	0.81	22.90	4.18	19.59	0.15	20.68	1.03
MSKIP_ON	ENSSSCG00000000152	5	11890802	11897527	20.19	0.14	21.61	0.28	29.15	0.99	22.90	4.42	19.59	0.15	20.68	1.03
SKIP_OFF	ENSSSCG00000000152	5	11887743	11887782	20.19	0.14	21.61	0.28	29.15	0.99	22.90	4.42	19.59	0.15	20.68	1.03
SKIP_ON	ENSSSCG00000000152	5	11890802	11890844	20.19	0.14	21.61	0.28	29.15	0.99	22.90	4.42	19.59	0.15	20.68	1.03
SKIP_OFF	ENSSSCG00000000152	5	11875949	11876041	20.19	0.89	21.61	0.97	29.15	0.60	22.90	0.22	19.59	0.92	20.68	0.83
MSKIP_ON	ENSSSCG00000000152	5	11887743	11897527	20.19	1.49	21.61	0.24	29.15	1.63	22.90	1.31	19.59	0.58	20.68	1.03
MSKIP_ON	ENSSSCG00000000152	5	11887743	11893041	20.19	1.49	21.61	0.24	29.15	1.63	22.90	1.31	19.59	0.58	20.68	1.03
SKIP_ON	ENSSSCG00000000152	5	11893010	11893041	20.19	1.49	21.61	0.24	29.15	1.63	22.90	1.31	19.59	0.58	20.68	1.03
MSKIP_OFF	ENSSSCG00000000152	5	11887743	11893041	20.19	0.42	21.61	1.95	29.15	2.35	22.90	0.46	19.59	1.05	20.68	0.80
SKIP_OFF	ENSSSCG00000000152	5	11887743	11887782	20.19	0.42	21.61	1.95	29.15	2.35	22.90	0.46	19.59	1.05	20.68	0.80
SKIP_ON	ENSSSCG00000000152	5	11897439	11897527	20.19	0.42	21.61	1.95	29.15	2.35	22.90	0.46	19.59	1.05	20.68	0.80
AE	ENSSSCG00000000152	5	11883894	11884038	20.19	2.38	21.61	1.21	29.15	2.41	22.90	1.78	19.59	1.50	20.68	1.86
TSS	ENSSSCG00000000152	5	11633546	11633824	20.19	1.76	21.61	2.45	29.15	3.13	22.90	2.19	19.59	1.96	20.68	1.63
TSS	ENSSSCG00000000152	5	11696934	11697001	20.19	4.72	21.61	6.53	29.15	6.68	22.90	3.77	19.59	4.43	20.68	6.70
TSS	ENSSSCG00000000152	5	11808730	11809415	20.19	13.56	21.61	12.36	29.15	18.34	22.90	12.52	19.59	13.04	20.68	11.32
MSKIP_ON	ENSSSCG00000000152	5	11887743	11897527	20.19	16.26	21.61	16.70	29.15	20.14	22.90	14.51	19.59	15.85	20.68	16.13
SKIP_OFF	ENSSSCG00000000152	5	11893010	11893041	20.19	16.26	21.61	16.70	29.15	20.14	22.90	14.51	19.59	15.85	20.68	16.13
SKIP_ON	ENSSSCG00000000152	5	11887743	11887782	20.19	16.26	21.61	16.70	29.15	20.14	22.90	14.51	19.59	15.85	20.68	16.13
AE	ENSSSCG00000000152	5	11883906	11884038	20.19	16.05	21.61	17.96	29.15	23.60	22.90	18.92	19.59	16.12	20.68	17.19
TTS	ENSSSCG00000000152	5	11899706	11899864	20.19	18.42	21.61	19.17	29.15	25.24	22.90	20.71	19.59	17.62	20.68	19.05
SKIP_ON	ENSSSCG00000000152	5	11875949	11876041	20.19	19.30	21.61	20.64	29.15	28.54	22.90	22.67	19.59	18.66	20.68	19.85
TSS	ENSSSCG00000000156	5	12525806	12525927	18.56	1.26	10.51	0.78	14.99	0.92	19.29	1.12	19.20	1.07	18.92	0.96
TSS	ENSSSCG00000000156	5	12525569	12525727	18.56	17.31	10.51	9.72	14.99	14.07	19.29	18.17	19.20	18.12	18.92	17.96
TTS	ENSSSCG00000000156	5	12501275	12506332	18.56	18.56	10.51	10.51	14.99	14.99	19.29	19.29	19.20	19.20	18.92	18.92
TTS	ENSSSCG00000000157	5	12578357	12579900	0.16	0.09	0.10	0.09	0.27	0.16	0.89	0.61	0.70	0.36	1.22	0.78
TSS	ENSSSCG00000000157	5	12535679	12535770	0.16	0.16	0.10	0.10	0.27	0.27	0.89	0.89	0.70	0.70	1.22	1.22
TSS	ENSSSCG00000000158	5	12579975	12580462	15.95	15.95	11.53	11.53	14.21	14.21	13.22	13.22	11.95	11.95	16.86	16.86
TTS	ENSSSCG00000000158	5	12605489	12607578	15.95	15.95	11.53	11.53	14.21	14.21	13.22	13.22	11.95	11.95	16.86	16.86
SKIP_OFF	ENSSSCG00000000160	5	12654723	12654872	6.06	0.13	4.16	0.00	5.61	0.00	5.47	0.00	5.07	0.00	4.90	0.12
TSS	ENSSSCG00000000160	5	12638291	12639128	6.06	0.13	4.16	0.00	5.61	0.00	5.47	0.00	5.07	0.00	4.90	0.12
TSS	ENSSSCG00000000160	5	12638389	12638508	6.06	2.91	4.16	2.26	5.61	2.32	5.47	2.68	5.07	3.58	4.90	1.62
TSS	ENSSSCG00000000160	5	12638514	12638667	6.06	3.02	4.16	1.90	5.61	3.29	5.47	2.80	5.07	1.50	4.90	3.17
SKIP_ON	ENSSSCG00000000160	5	12654723	12654872	6.06	5.93	4.16	4.16	5.61	5.61	5.47	5.47	5.07	5.07	4.90	4.79
TTS	ENSSSCG00000000160	5	12667225	12667537	6.06	6.06	4.16	4.16	5.61	5.61	5.47	5.47	5.07	5.07	4.90	4.90
XSKIP_OFF	ENSSSCG00000000161	5	12709306	12709367	19.17	0.00	14.04	0.00	15.01	0.00	14.77	0.00	13.50	0.00	13.95	0.00
XSKIP_ON	ENSSSCG00000000161	5	12709306	12709367	19.17	19.17	14.04	14.04	15.01	15.01	14.77	14.77	13.50	13.50	13.95	13.95
TSS	ENSSSCG00000000161	5	12730655	12730726	19.17	19.17	14.04	14.04	15.01	15.01	14.77	14.77	13.50	13.50	13.95	13.95
TTS	ENSSSCG00000000161	5	12703304	12703413	19.17	19.17	14.04	14.04	15.01	15.01	14.77	14.77	13.50	13.50	13.95	13.95
SKIP_OFF	ENSSSCG00000000162	5	12797065	12797166	0.19	0.00	0.58	0.03	0.58	0.00	1.42	0.06	0.57	0.00	0.56	0.00
MSKIP_OFF	ENSSSCG00000000162	5	12793906	12794985	0.19	0.00	0.58	0.00	0.58	0.07	1.42	0.00	0.57	0.00	0.56	0.00
MSKIP_ON	ENSSSCG00000000162	5	12793906	12794985	0.19	0.19	0.58	0.58	0.58	0.50	1.42	1.42	0.57	0.57	0.56	0.56
SKIP_ON	ENSSSCG00000000162	5	12797065	12797166	0.19	0.19	0.58	0.54	0.58	0.58	1.42	1.36	0.57	0.57	0.56	0.56
TSS	ENSSSCG00000000162	5	13067791	13069699	0.19	0.19	0.58	0.58	0.58	0.58	1.42	1.42	0.57	0.57	0.56	0.56
TTS	ENSSSCG00000000162	5	12754539	12756736	0.19	0.19	0.58	0.58	0.58	0.58	1.42	1.42	0.57	0.57	0.56	0.56
IR_ON	ENSSSCG00000000164	5	13362997	13363077	11.33	3.21	8.05	2.47	9.16	2.22	15.33	5.11	7.83	1.74	13.44	3.93
IR_OFF	ENSSSCG00000000164	5	13356674	13356738	11.33	4.71	8.05	2.56	9.16	2.94	15.33	5.15	7.83	3.08	13.44	3.90
IR_OFF	ENSSSCG00000000164	5	13362997	13363077	11.33	3.41	8.05	3.02	9.16	4.01	15.33	5.07	7.83	3.00	13.44	5.62

SKIP_OFF	ENSSSCG00000000164	5	13356245	13356385	11.33	3.41	8.05	3.02	9.16	4.01	15.33	5.07	7.83	3.00	13.44	5.62
SKIP_ON	ENSSSCG00000000164	5	13356245	13356385	11.33	7.92	8.05	5.03	9.16	5.15	15.33	10.27	7.83	4.82	13.44	7.82
IR_ON	ENSSSCG00000000164	5	13356674	13356738	11.33	6.62	8.05	5.49	9.16	6.22	15.33	10.18	7.83	4.74	13.44	9.54
TTS	ENSSSCG00000000164	5	13363959	13364594	11.33	6.62	8.05	5.49	9.16	6.22	15.33	10.18	7.83	4.74	13.44	9.54
TSS	ENSSSCG00000000164	5	13275541	13276334	11.33	11.33	8.05	8.05	9.16	9.16	15.33	15.33	7.83	7.83	13.44	13.44
SKIP_OFF	ENSSSCG00000000167	5	13570590	13570637	8.60	0.00	7.24	0.00	8.26	0.00	8.08	0.00	7.38	0.00	7.01	0.00
TSS	ENSSSCG00000000167	5	13585717	13585781	8.60	0.49	7.24	0.33	8.26	0.41	8.08	0.35	7.38	0.29	7.01	0.71
SKIP_ON	ENSSSCG00000000167	5	13486401	13486520	8.60	0.49	7.24	0.33	8.26	0.41	8.08	0.35	7.38	0.29	7.01	0.71
SKIP_OFF	ENSSSCG00000000167	5	13486401	13486520	8.60	6.21	7.24	5.18	8.26	5.94	8.08	5.48	7.38	5.02	7.01	4.69
TTS	ENSSSCG00000000167	5	13468944	13472409	8.60	6.70	7.24	5.51	8.26	6.35	8.08	5.83	7.38	5.31	7.01	5.40
SKIP_ON	ENSSSCG00000000167	5	13570590	13570637	8.60	8.10	7.24	6.91	8.26	7.85	8.08	7.73	7.38	7.09	7.01	6.30
TSS	ENSSSCG00000000167	5	13579953	13580164	8.60	8.10	7.24	6.91	8.26	7.85	8.08	7.73	7.38	7.09	7.01	6.30
TSS	ENSSSCG00000000169	5	13758098	13758140	5.23	0.02	4.37	0.01	12.99	0.03	7.43	0.02	5.35	0.02	6.74	0.01
TTS	ENSSSCG00000000169	5	13804930	13805703	5.23	5.19	4.37	4.33	12.99	12.91	7.43	7.08	5.35	4.15	6.74	5.91
TSS	ENSSSCG00000000169	5	13926468	13926539	5.23	5.19	4.37	4.34	12.99	12.91	7.43	7.35	5.35	5.31	6.74	6.67
TSS	ENSSSCG00000000171	5	14021321	14021776	50.66	50.66	28.70	28.70	38.04	38.04	11.86	11.86	21.06	21.06	31.69	31.69
TTS	ENSSSCG00000000171	5	14028718	14030039	50.66	50.66	28.70	28.70	38.04	38.04	11.86	11.86	21.06	21.06	31.69	31.69
TSS	ENSSSCG00000000175	5	14850477	14850728	15.73	15.73	12.70	12.70	15.02	15.02	10.40	10.40	11.30	11.30	13.70	13.70
TTS	ENSSSCG00000000175	5	14836798	14836923	15.73	15.73	12.70	12.70	15.02	15.02	10.40	10.40	11.30	11.30	13.70	13.70
TSS	ENSSSCG00000000176	5	14909604	14909741	13.24	13.24	9.75	9.75	12.14	12.14	11.96	11.96	11.51	11.51	12.88	12.88
TTS	ENSSSCG00000000176	5	14886694	14889870	13.24	13.24	9.75	9.75	12.14	12.14	11.96	11.96	11.51	11.51	12.88	12.88
TSS	ENSSSCG00000000179	5	14950492	14950839	2.44	2.44	0.49	0.49	0.73	0.73	21.73	21.73	11.76	11.76	18.04	18.04
TTS	ENSSSCG00000000179	5	14958565	14959327	2.44	2.44	0.49	0.49	0.73	0.73	21.73	21.73	11.76	11.76	18.04	18.04
TSS	ENSSSCG00000000180	5	14970662	14970752	23.45	23.45	18.27	18.27	22.11	22.11	32.88	32.88	20.83	20.83	36.70	36.70
TTS	ENSSSCG00000000180	5	14958782	14959544	23.45	23.45	18.27	18.27	22.11	22.11	32.88	32.88	20.83	20.83	36.70	36.70
IR_OFF	ENSSSCG00000000182	5	14999806	14999949	0.70	0.26	1.31	0.68	0.76	0.23	0.24	0.15	0.37	0.21	0.67	0.31
IR_ON	ENSSSCG00000000182	5	14999806	14999949	0.70	0.43	1.31	0.63	0.76	0.54	0.24	0.09	0.37	0.16	0.67	0.37
TSS	ENSSSCG00000000182	5	15011691	15013613	0.70	0.43	1.31	0.63	0.76	0.54	0.24	0.09	0.37	0.16	0.67	0.37
TTS	ENSSSCG00000000182	5	14995704	14998577	0.70	0.70	1.31	1.31	0.76	0.76	0.24	0.24	0.37	0.37	0.67	0.67
SKIP_OFF	ENSSSCG00000000185	5	15035996	15036105	20.89	0.00	21.24	0.00	19.64	0.00	20.10	0.00	22.02	0.00	21.31	0.00
TSS	ENSSSCG00000000185	5	15045088	15045102	20.89	0.00	21.24	0.00	19.64	0.00	20.10	0.00	22.02	0.00	21.31	0.00
TTS	ENSSSCG00000000185	5	15033060	15033334	20.89	0.38	21.24	0.22	19.64	0.68	20.10	0.00	22.02	0.57	21.31	1.72
TSS	ENSSSCG00000000185	5	15049313	15049439	20.89	0.93	21.24	0.93	19.64	1.07	20.10	1.56	22.02	0.73	21.31	0.42
TSS	ENSSSCG00000000185	5	15035996	15036181	20.89	1.19	21.24	2.11	19.64	2.04	20.10	1.63	22.02	2.54	21.31	2.30
SKIP_OFF	ENSSSCG00000000185	5	15034340	15034377	20.89	1.70	21.24	2.80	19.64	2.43	20.10	3.19	22.02	2.68	21.31	1.01
TSS	ENSSSCG00000000185	5	15049571	15049656	20.89	18.77	21.24	18.20	19.64	16.53	20.10	16.91	22.02	18.75	21.31	18.58
SKIP_ON	ENSSSCG00000000185	5	15034340	15034377	20.89	19.19	21.24	18.44	19.64	17.21	20.10	16.91	22.02	19.34	21.31	20.30
SKIP_ON	ENSSSCG00000000185	5	15035996	15036105	20.89	19.70	21.24	19.13	19.64	17.60	20.10	18.47	22.02	19.48	21.31	19.01
TSS	ENSSSCG00000000186	5	15097490	15097764	0.50	0.50	0.24	0.24	0.27	0.27	0.38	0.38	0.38	0.38	0.18	0.18
TTS	ENSSSCG00000000186	5	15093609	15094920	0.50	0.50	0.24	0.24	0.27	0.27	0.38	0.38	0.38	0.38	0.18	0.18
TSS	ENSSSCG00000000188	5	15118996	15119577	1.57	1.57	0.98	0.98	0.73	0.73	0.33	0.33	0.85	0.85	0.80	0.80
TTS	ENSSSCG00000000188	5	15114527	15115537	1.57	1.57	0.98	0.98	0.73	0.73	0.33	0.33	0.85	0.85	0.80	0.80
MSKIP_OFF	ENSSSCG00000000189	5	15130504	15131765	10.35	0.17	9.76	0.00	12.74	0.00	14.15	0.42	14.13	0.03	10.98	0.46
SKIP_OFF	ENSSSCG00000000189	5	15124452	15124529	10.35	0.00	9.76	0.00	12.74	0.22	14.15	0.00	14.13	0.00	10.98	0.00
TSS	ENSSSCG00000000189	5	15135226	15135252	10.35	9.87	9.76	9.40	12.74	12.19	14.15	13.55	14.13	13.40	10.98	10.30
SKIP_ON	ENSSSCG00000000189	5	15124452	15124529	10.35	10.35	9.76	9.76	12.74	12.53	14.15	14.15	14.13	14.13	10.98	10.98
MSKIP_ON	ENSSSCG00000000189	5	15130504	15131765	10.35	10.18	9.76	9.76	12.74	12.74	14.15	13.74	14.13	14.10	10.98	10.52
TTS	ENSSSCG00000000189	5	15119638	15122154	10.35	10.35	9.76	9.76	12.74	12.74	14.15	14.15	14.13	14.13	10.98	10.98
TSS	ENSSSCG00000000190	5	15190076	15190862	416.62	50.69	276.00	43.50	202.65	25.96	312.52	45.43	262.27	41.59	265.03	39.38
TTS	ENSSSCG00000000190	5	15150240	15150804	416.62	145.17	276.00	42.40	202.65	17.06	312.52	19.01	262.27	31.79	265.03	39.95

TSS	ENSSSCG00000000190	5	15189714	15190062	416.62	170.24	276.00	83.55	202.65	62.50	312.52	117.57	262.27	113.01	265.03	108.42
TSS	ENSSSCG00000000190	5	15153516	15153620	416.62	195.69	276.00	148.95	202.65	114.19	312.52	149.53	262.27	107.67	265.03	117.22
TSS	ENSSSCG00000000191	5	15083878	15084043	4.68	4.68	6.38	6.38	6.05	6.05	5.13	5.13	6.68	6.68	4.49	4.49
TTS	ENSSSCG00000000191	5	15058089	15058595	4.68	4.68	6.38	6.38	6.05	6.05	5.13	5.13	6.68	6.68	4.49	4.49
TSS	ENSSSCG00000000194	5	15153184	15153599	86.78	18.33	33.77	3.44	20.49	2.35	45.30	27.44	30.83	11.90	33.50	10.59
TSS	ENSSSCG00000000194	5	15260842	15261045	86.78	68.46	33.77	30.34	20.49	18.13	45.30	17.86	30.83	18.93	33.50	22.91
TTS	ENSSSCG00000000194	5	15268707	15269779	86.78	86.78	33.77	33.77	20.49	20.49	45.30	45.30	30.83	30.83	33.50	33.50
TTS	ENSSSCG00000000195	5	15288398	15289524	0.29	0.29	0.34	0.24	0.26	0.26	0.10	0.10	0.19	0.19	0.12	0.12
TSS	ENSSSCG00000000195	5	15285252	15285891	0.29	0.29	0.34	0.34	0.26	0.26	0.10	0.10	0.19	0.19	0.12	0.12
TSS	ENSSSCG00000000197	5	15311180	15312520	3.65	0.00	1.49	0.00	2.66	0.00	8.24	0.00	2.70	0.00	0.77	0.00
TTS	ENSSSCG00000000197	5	15308282	15309162	3.65	0.00	1.49	0.00	2.66	0.00	8.24	0.00	2.70	0.00	0.77	0.00
TSS	ENSSSCG00000000198	5	15316383	15316951	0.23	0.00	0.00	0.00	0.37	0.00	0.96	0.00	0.52	0.00	1.05	0.00
TSS	ENSSSCG00000000198	5	15322508	15322771	0.23	0.23	0.00	0.00	0.37	0.37	0.96	0.96	0.52	0.52	1.05	1.05
TTS	ENSSSCG00000000198	5	15334737	15335026	0.23	0.23	0.00	0.00	0.37	0.37	0.96	0.96	0.52	0.52	1.05	1.05
SKIP_ON	ENSSSCG00000000199	5	15471648	15471693	9.61	0.21	6.41	0.11	9.85	0.14	10.78	0.00	8.86	0.11	11.98	0.20
SKIP_OFF	ENSSSCG00000000199	5	15471648	15471693	9.61	9.40	6.41	6.30	9.85	9.71	10.78	10.78	8.86	8.74	11.98	11.78
TSS	ENSSSCG00000000199	5	15347633	15347928	9.61	9.61	6.41	6.41	9.85	9.85	10.78	10.78	8.86	8.86	11.98	11.98
TTS	ENSSSCG00000000199	5	15483736	15484756	9.61	9.61	6.41	6.41	9.85	9.85	10.78	10.78	8.86	8.86	11.98	11.98
IR_ON	ENSSSCG00000000202	5	15524605	15524794	14.90	2.06	11.62	1.57	13.84	4.12	11.71	2.93	11.93	2.46	13.20	1.26
IR_OFF	ENSSSCG00000000202	5	15524605	15524794	14.90	12.84	11.62	10.05	13.84	9.72	11.71	8.78	11.93	9.47	13.20	11.93
TSS	ENSSSCG00000000202	5	15526422	15526535	14.90	14.90	11.62	11.62	13.84	13.84	11.71	11.71	11.93	11.93	13.20	13.20
TTS	ENSSSCG00000000202	5	15517033	15517464	14.90	14.90	11.62	11.62	13.84	13.84	11.71	11.71	11.93	11.93	13.20	13.20
TSS	ENSSSCG00000000203	5	15495902	15496975	2.09	0.94	1.02	0.20	0.85	0.33	7.08	3.49	4.94	2.86	6.56	2.88
TSS	ENSSSCG00000000203	5	15495251	15495326	2.09	1.16	1.02	0.82	0.85	0.52	7.08	3.59	4.94	2.08	6.56	3.68
TTS	ENSSSCG00000000203	5	15516051	15517458	2.09	2.09	1.02	1.02	0.85	0.85	7.08	7.08	4.94	4.94	6.56	6.56
SKIP_ON	ENSSSCG00000000204	5	15577357	15577437	8.38	0.51	6.73	1.25	7.21	0.34	11.03	0.31	8.87	0.39	8.46	0.18
SKIP_OFF	ENSSSCG00000000204	5	15577357	15577437	8.38	7.87	6.73	5.48	7.21	6.86	11.03	10.73	8.87	8.48	8.46	8.28
TTS	ENSSSCG00000000204	5	15591821	15596650	8.38	7.87	6.73	5.48	7.21	6.86	11.03	10.73	8.87	8.48	8.46	8.28
TSS	ENSSSCG00000000204	5	15570454	15570659	8.38	8.38	6.73	6.73	7.21	7.21	11.03	11.03	8.87	8.87	8.46	8.46
TSS	ENSSSCG00000000205	5	15559626	15560066	1.40	1.40	0.91	0.91	0.89	0.89	1.00	1.00	1.76	1.76	1.71	1.71
TTS	ENSSSCG00000000205	5	15542246	15542345	1.40	1.40	0.91	0.91	0.89	0.89	1.00	1.00	1.76	1.76	1.71	1.71
TSS	ENSSSCG00000000206	5	15812439	15813034	7.37	7.37	10.05	10.05	6.22	6.22	14.79	14.79	7.26	7.26	2.63	2.63
TTS	ENSSSCG00000000206	5	15779334	15782890	7.37	7.37	10.05	10.05	6.22	6.22	14.79	14.79	7.26	7.26	2.63	2.63
TSS	ENSSSCG00000000207	5	15774938	15775227	0.31	0.31	0.41	0.41	0.63	0.63	0.67	0.67	0.95	0.95	0.33	0.33
TTS	ENSSSCG00000000207	5	15775251	15775449	0.31	0.31	0.41	0.41	0.63	0.63	0.67	0.67	0.95	0.95	0.33	0.33
SKIP_OFF	ENSSSCG00000000209	5	15725036	15725097	4.60	0.73	2.92	0.00	5.36	0.00	3.26	0.17	4.48	0.00	3.98	0.00
SKIP_ON	ENSSSCG00000000209	5	15725036	15725097	4.60	1.53	2.92	1.40	5.36	2.23	3.26	1.33	4.48	2.17	3.98	2.56
TSS	ENSSSCG00000000209	5	15742295	15742388	4.60	2.27	2.92	1.40	5.36	2.24	3.26	1.50	4.48	2.17	3.98	2.56
TTS	ENSSSCG00000000209	5	15711254	15712132	4.60	2.33	2.92	1.52	5.36	3.13	3.26	1.76	4.48	2.31	3.98	1.42
TSS	ENSSSCG00000000209	5	15761292	15761537	4.60	5.74	2.92	4.70	5.36	6.39	3.26	5.46	4.48	5.91	3.98	4.45
TSS	ENSSSCG00000000211	5	15876401	15876890	0.17	0.17	0.13	0.13	0.13	0.13	0.26	0.26	0.05	0.05	0.50	0.50
TTS	ENSSSCG00000000211	5	15879345	15881332	0.17	0.17	0.13	0.13	0.13	0.13	0.26	0.26	0.05	0.05	0.50	0.50
TSS	ENSSSCG00000000212	5	15887947	15888678	0.13	0.13	0.06	0.06	0.19	0.19	0.10	0.10	0.23	0.23	0.12	0.12
TTS	ENSSSCG00000000212	5	15890590	15892148	0.13	0.13	0.06	0.06	0.19	0.19	0.10	0.10	0.23	0.23	0.12	0.12
SKIP_OFF	ENSSSCG00000000214	5	16012723	16012829	5.19	0.22	2.76	0.00	4.05	0.00	6.75	0.00	4.87	0.00	6.68	0.34
TSS	ENSSSCG00000000214	5	16008485	16008530	5.19	0.22	2.76	0.00	4.05	0.00	6.75	0.00	4.87	0.00	6.68	0.34
TSS	ENSSSCG00000000214	5	16008533	16008824	5.19	2.01	2.76	0.53	4.05	0.83	6.75	3.73	4.87	2.24	6.68	2.19
TSS	ENSSSCG00000000214	5	16007448	16007793	5.19	2.95	2.76	2.23	4.05	3.21	6.75	3.02	4.87	2.63	6.68	4.14
TTS	ENSSSCG00000000214	5	16021020	16021674	5.19	2.95	2.76	2.23	4.05	3.21	6.75	3.02	4.87	2.63	6.68	4.14
SKIP_ON	ENSSSCG00000000214	5	16012723	16012829	5.19	4.96	2.76	2.76	4.05	4.05	6.75	6.75	4.87	4.87	6.68	6.33

Table S4 Differentially spliced events

data...l.	event_type	gene_id	chr	event start	event end	XL13	XL17	XL18	XS12	XS15	XS16	XL AveFPKM	XS AveFPKM	FC	logFC	AveExpr	t	P. Value	adj. P. Val	B
1058034	TTS	ENSSSCG00000002768	6	28446687	28446702	1.42	0.93	1.36	0.00	0.00	0.00	1.24	0.00	695762.58	19.41	0.62	-8.18	0.0007	0.038	0.22
1000765	TSS	ENSSSCG00000004263	1	44940794	44940850	1.55	1.24	1.02	0.00	0.00	0.00	1.27	0.00	51279.67	15.65	0.63	-8.40	0.0006	0.036	0.35
1019643	TSS	ENSSSCG000000029811	13	3980464	3980557	0.71	0.92	0.84	0.00	0.00	0.00	0.83	0.00	5943.19	12.54	0.41	-11.90	0.0001	0.020	1.96
1014231	SKIP_OFF	ENSSSCG000000033228	12	27261499	27261513	2.15	1.93	1.54	0.00	0.00	0.00	1.87	0.00	4076.38	11.99	0.94	-10.91	0.0002	0.023	1.57
1014220	SKIP_ON	ENSSSCG000000033228	12	27262711	27262722	2.15	1.93	1.54	0.00	0.00	0.00	1.87	0.00	4076.38	11.99	0.94	-10.91	0.0002	0.023	1.57
1049709	TSS	ENSSSCG000000006191	4	64710542	64710633	0.90	0.76	0.79	0.00	0.00	0.00	0.82	0.00	3976.77	11.96	0.41	-14.88	0.0001	0.015	2.93
1023585	SKIP_OFF	ENSSSCG000000010281	14	74747072	74747197	4.37	5.26	5.11	0.00	0.00	0.02	4.91	0.01	761.07	9.57	2.46	-18.82	0.0000	0.010	3.85
1069392	SKIP_OFF	ENSSSCG000000028225	7	116374054	116374209	0.31	0.33	0.31	0.00	0.00	0.00	0.32	0.00	728.24	9.51	0.16	-8.23	0.0007	0.037	0.25
1029818	TTS	ENSSSCG000000034942	15	48383713	48388326	107.11	101.29	85.77	0.41	2.00	2.25	98.06	1.55	63.07	5.98	49.81	-16.03	0.0000	0.013	3.23
1029817	TSS	ENSSSCG000000034942	15	48377513	48377756	111.90	104.71	87.37	0.50	2.11	2.33	101.33	1.65	61.40	5.94	51.49	-14.51	0.0001	0.015	2.82
1075974	SKIP_OFF	ENSSSCG000000015537	9	122359024	122359125	0.51	0.53	0.42	0.00	0.03	0.00	0.49	0.01	41.96	5.39	0.25	-9.42	0.0004	0.030	0.89
1067382	MSKIP_OFF	ENSSSCG000000001825	7	53686932	53687906	1.26	1.12	1.14	0.00	0.08	0.00	1.18	0.03	41.89	5.39	0.60	-18.80	0.0000	0.010	3.85
1024037	TSS	ENSSSCG000000010455	14	101367855	101368158	0.98	0.61	0.86	0.08	0.00	0.00	0.81	0.03	31.72	4.99	0.42	-7.09	0.0013	0.047	-0.45
1016020	TSS	ENSSSCG000000011423	13	33926804	33926915	0.34	0.27	0.28	0.01	0.03	0.02	0.30	0.02	16.50	4.04	0.16	-6.47	0.0019	0.055	-0.88
1032155	MSKIP_OFF	ENSSSCG000000007133	17	30804841	30805130	0.70	1.03	0.76	0.17	0.00	0.00	0.83	0.06	14.43	3.85	0.44	-6.61	0.0017	0.053	-0.78
1032151	XSKIP_OFF	ENSSSCG000000007133	17	30805003	30805130	0.70	1.03	0.76	0.17	0.00	0.00	0.83	0.06	14.43	3.85	0.44	-6.61	0.0017	0.053	-0.78
1031358	TSS	ENSSSCG000000030343	16	34871780	34871822	0.60	0.77	0.62	0.00	0.00	0.19	0.66	0.06	10.55	3.40	0.36	-6.99	0.0014	0.048	-0.52
1031365	XAE	ENSSSCG000000030343	16	34839254	34839386	0.60	0.77	0.62	0.00	0.00	0.19	0.66	0.06	10.55	3.40	0.36	-6.99	0.0014	0.048	-0.52
1000555	TSS	ENSSSCG000000004195	1	32051209	32051376	1.39	1.37	1.53	0.16	0.26	0.00	1.43	0.14	10.28	3.36	0.79	-13.70	0.0001	0.017	2.58
1008290	TTS	ENSSSCG000000011147	10	65572686	65574571	119.94	95.45	81.49	1.17	16.69	16.71	98.96	11.52	8.59	3.10	55.24	-7.51	0.0010	0.043	-0.18
1019143	MSKIP_OFF	ENSSSCG000000026746	13	79332564	79332882	1.09	1.00	1.10	0.13	0.26	0.00	1.06	0.13	8.10	3.02	0.60	-10.75	0.0002	0.024	1.50
1019148	SKIP_OFF	ENSSSCG000000026746	13	79330784	79330858	1.09	1.00	1.10	0.13	0.26	0.00	1.06	0.13	8.10	3.02	0.60	-10.75	0.0002	0.024	1.50
1045599	SKIP_OFF	ENSSSCG000000008421	3	92002381	92002550	23.42	15.59	20.60	0.12	5.72	2.14	19.87	2.66	7.47	2.90	11.26	-6.50	0.0019	0.054	-0.86
1062615	TSS	ENSSSCG000000027684	6	83507215	83508007	0.61	0.50	0.57	0.01	0.16	0.06	0.56	0.08	7.34	2.87	0.32	-7.53	0.0010	0.043	-0.17
1062616	TTS	ENSSSCG000000027684	6	83488973	83493215	0.61	0.50	0.57	0.01	0.16	0.06	0.56	0.08	7.34	2.87	0.32	-7.53	0.0010	0.043	-0.17
1045593	TSS	ENSSSCG000000008421	3	91964415	91964639	24.13	16.40	21.30	0.12	6.08	2.36	20.61	2.85	7.22	2.85	11.73	-6.62	0.0017	0.053	-0.77
1045594	TTS	ENSSSCG000000008421	3	92020227	92021398	21.40	15.59	20.17	0.12	6.08	2.22	19.05	2.81	6.79	2.76	10.93	-6.95	0.0014	0.049	-0.55
1045601	XSKIP_OFF	ENSSSCG000000008421	3	92015950	92015950	21.40	15.59	20.17	0.12	6.08	2.22	19.05	2.81	6.79	2.76	10.93	-6.95	0.0014	0.049	-0.55
1045596	SKIP_ON	ENSSSCG000000008421	3	91984228	91984299	21.40	15.59	20.17	0.12	6.08	2.22	19.05	2.81	6.79	2.76	10.93	-6.95	0.0014	0.049	-0.55
1010172	TSS	ENSSSCG000000022159	11	18756040	18756356	5.62	6.01	5.44	0.17	2.05	0.74	5.69	0.98	5.78	2.53	3.34	-8.59	0.0006	0.035	0.45
1000556	TTS	ENSSSCG000000004195	1	32006042	32007153	1.72	1.37	1.97	0.26	0.48	0.19	1.68	0.31	5.44	2.44	1.00	-7.36	0.0011	0.045	-0.27
1079470	TSS	ENSSSCG000000012638	X	100826849	100827728	13.78	17.69	16.20	0.83	5.48	2.63	15.89	2.98	5.33	2.41	9.44	-7.76	0.0009	0.041	-0.02
1023991	SKIP_ON	ENSSSCG000000010437	14	99783084	99783098	45.82	54.54	58.86	1.47	18.39	14.04	53.07	11.30	4.70	2.23	32.19	-6.98	0.0014	0.049	-0.52
1018359	TTS	ENSSSCG000000021966	13	74766604	74766639	0.92	1.04	0.80	0.19	0.24	0.19	0.92	0.21	4.46	2.16	0.56	-9.21	0.0004	0.031	0.78
1065608	TTS	ENSSSCG000000040607	6	8484601	8485030	2.36	2.82	2.31	0.16	1.07	0.53	2.49	0.59	4.24	2.08	1.54	-6.49	0.0019	0.055	-0.87
1080548	TSS	ENSSSCG000000030241	X	88234558	88234608	38.74	32.90	32.73	3.64	8.80	12.52	34.79	8.32	4.18	2.06	21.56	-8.67	0.0006	0.034	0.50
1039380	SKIP_OFF	ENSSSCG000000014136	2	91768020	91773257	8.63	6.72	7.94	0.51	2.68	2.82	7.76	2.00	3.88	1.96	4.88	-6.55	0.0018	0.054	-0.82
1039385	SKIP_ON	ENSSSCG000000014136	2	91746365	91749304	8.63	6.72	7.94	0.51	2.68	2.82	7.76	2.00	3.88	1.96	4.88	-6.55	0.0018	0.054	-0.82
1007330	TSS	ENSSSCG000000010840	10	12322181	12322304	2.56	1.84	2.57	0.48	0.68	0.68	2.33	0.61	3.80	1.92	1.47	-7.14	0.0013	0.047	-0.42
1007336	XSKIP_ON	ENSSSCG000000010840	10	12321629	12321642	2.56	1.84	2.57	0.48	0.68	0.68	2.33	0.61	3.80	1.92	1.47	-7.14	0.0013	0.047	-0.42
1048761	TSS	ENSSSCG000000040786	3	86783366	86783498	11.93	10.98	11.60	2.06	3.13	3.95	11.50	3.05	3.78	1.92	7.27	-14.66	0.0001	0.015	2.86
1004422	SKIP_ON	ENSSSCG000000005585	1	264307939	264308067	1.51	1.32	1.07	0.36	0.44	0.30	1.30	0.37	3.54	1.82	0.83	-6.97	0.0014	0.049	-0.53
1078216	TTS	ENSSSCG000000012112	X	7910855	7912885	15.47	21.90	20.62	6.49	5.77	6.20	19.33	6.15	3.14	1.65	12.74	-7.09	0.0013	0.047	-0.45
1057413	SKIP_ON	ENSSSCG000000038732	5	23018912	23018971	1.48	1.61	1.18	0.48	0.46	0.47	1.42	0.47	3.03	1.60	0.95	-7.50	0.0010	0.043	-0.19
1067628	SKIP_ON	ENSSSCG000000001914	7	59486916	59487053	28.94	28.08	25.52	3.98	10.76	12.66	27.52	9.13	3.01	1.59	18.32	-6.91	0.0015	0.049	-0.57
1067626	TSS	ENSSSCG000000001914	7	59503667	59505269	29.42	28.08	25.63	4.25	10.86	12.76	27.71	9.29	2.98	1.58	18.50	-6.97	0.0014	0.049	-0.53
1067627	TTS	ENSSSCG000000001914	7	59481407	59481749	29.42	28.08	25.63	4.25	10.86	12.76	27.71	9.29	2.98	1.58	18.50	-6.97	0.0014	0.049	-0.53
1080443	TSS	ENSSSCG000000027465	X	57176103	57176254	3.55	3.43	3.92	1.25	1.47	1.01	3.63	1.24	2.92	1.54	2.44	-12.57	0.0001	0.019	2.20
1080444	TTS	ENSSSCG000000027465	X	57198622	57201459	3.55	3.43	3.92	1.25	1.47	1.01	3.63	1.24	2.92	1.54	2.44	-12.57	0.0001	0.019	2.20

1010176	TSS	ENSSSCG00000022159	11	18757615	18757700	10.68	14.85	13.81	4.31	5.31	4.37	13.11	4.66	2.81	1.49	8.89	-6.93	0.0014	0.049	-0.56
1010181	XSKIP_OFF	ENSSSCG00000022159	11	18756754	18756822	10.68	14.85	13.81	4.31	5.31	4.37	13.11	4.66	2.81	1.49	8.89	-6.93	0.0014	0.049	-0.56
1025836	SKIP_OFF	ENSSSCG00000032622	14	6791993	6792022	4.08	3.47	3.51	0.85	1.50	1.81	3.69	1.39	2.66	1.41	2.54	-7.01	0.0014	0.048	-0.50
1042954	SKIP_OFF	ENSSSCG00000039045	2	151018018	151018741	4.78	5.92	5.42	1.68	1.65	2.73	5.37	2.02	2.66	1.41	3.70	-7.34	0.0011	0.045	-0.29
1042957	SKIP_ON	ENSSSCG00000039045	2	151012135	151012311	4.78	5.92	5.42	1.68	1.65	2.73	5.37	2.02	2.66	1.41	3.70	-7.34	0.0011	0.045	-0.29
1063447	TSS	ENSSSCG00000032060	6	7255180	7255332	22.83	30.01	26.13	8.05	8.98	12.73	26.32	9.92	2.65	1.41	18.12	-6.91	0.0015	0.049	-0.57
1063449	TTS	ENSSSCG00000032060	6	7278340	7278710	23.81	30.75	29.47	8.41	9.53	14.17	28.01	10.70	2.62	1.39	19.35	-6.65	0.0017	0.053	-0.76
1042059	TSS	ENSSSCG00000033765	2	142983077	142985349	0.63	0.64	0.69	0.18	0.30	0.28	0.65	0.25	2.59	1.37	0.45	-7.36	0.0011	0.045	-0.28
1042060	TTS	ENSSSCG00000033765	2	142985373	142985628	0.63	0.64	0.69	0.18	0.30	0.28	0.65	0.25	2.59	1.37	0.45	-7.36	0.0011	0.045	-0.28
1025041	TSS	ENSSSCG00000010746	14	135672821	135672926	17.13	17.05	15.32	3.67	8.87	6.59	16.50	6.38	2.59	1.37	11.44	-6.65	0.0017	0.053	-0.75
1025043	TTS	ENSSSCG00000010746	14	135302758	135307810	17.17	17.05	15.35	3.67	8.90	6.59	16.53	6.39	2.59	1.37	11.46	-6.64	0.0017	0.053	-0.76
1034342	TSS	ENSSSCG00000016444	18	6342709	6343108	43.38	41.94	43.24	10.61	20.82	19.00	42.85	16.81	2.55	1.35	29.83	-8.71	0.0005	0.034	0.52
1034343	TTS	ENSSSCG00000016444	18	6348590	6348958	43.38	41.94	43.24	10.61	20.82	19.00	42.85	16.81	2.55	1.35	29.83	-8.71	0.0005	0.034	0.52
1011118	TSS	ENSSSCG00000017215	12	6197682	6197717	2.67	2.49	3.04	0.95	1.37	0.92	2.73	1.08	2.53	1.34	1.91	-7.89	0.0008	0.040	0.05
1020290	XMSKIP_ON	ENSSSCG00000034493	13	160191825	160204381	5.73	5.69	7.14	2.45	3.00	1.97	6.19	2.47	2.50	1.32	4.33	-7.03	0.0014	0.048	-0.49
1020271	TSS	ENSSSCG00000034493	13	160224671	160224803	5.73	5.69	7.14	2.45	3.00	2.02	6.19	2.49	2.49	1.32	4.34	-7.09	0.0013	0.047	-0.45
1020293	XSKIP_OFF	ENSSSCG00000034493	13	160204668	160204775	5.73	5.69	7.14	2.45	3.00	2.02	6.19	2.49	2.49	1.32	4.34	-7.09	0.0013	0.047	-0.45
1049789	TTS	ENSSSCG00000006206	4	67899254	67901126	8.27	7.36	9.44	2.71	4.35	3.15	8.36	3.40	2.45	1.30	5.88	-6.78	0.0016	0.051	-0.66
1005309	TSS	ENSSSCG00000026042	1	16119103	16119704	0.80	0.78	0.85	0.38	0.35	0.26	0.81	0.33	2.45	1.29	0.57	-8.56	0.0006	0.035	0.44
1005310	TTS	ENSSSCG00000026042	1	16112178	16114324	0.80	0.78	0.85	0.38	0.35	0.26	0.81	0.33	2.45	1.29	0.57	-8.56	0.0006	0.035	0.44
1053460	TSS	ENSSSCG00000000038	5	6152922	6152942	139.14	147.27	162.53	50.47	60.85	74.59	149.65	61.97	2.41	1.27	105.81	-9.52	0.0004	0.029	0.94
1053461	TTS	ENSSSCG00000000038	5	6169090	6169262	139.14	147.27	162.53	50.47	60.85	74.59	149.65	61.97	2.41	1.27	105.81	-9.52	0.0004	0.029	0.94
1060176	IR_ON	ENSSSCG00000003660	6	95386229	95386908	6.37	7.40	7.23	3.03	3.30	2.39	7.00	2.91	2.41	1.27	4.95	-10.31	0.0003	0.026	1.31
1060174	MIR_ON	ENSSSCG00000003660	6	95386229	95386908	6.37	7.40	7.23	3.03	3.30	2.39	7.00	2.91	2.41	1.27	4.95	-10.31	0.0003	0.026	1.31
1060171	SKIP_OFF	ENSSSCG00000003660	6	95391911	95392005	6.37	7.40	7.23	3.03	3.30	2.39	7.00	2.91	2.41	1.27	4.95	-10.31	0.0003	0.026	1.31
1016507	TSS	ENSSSCG00000011550	13	66055124	66055295	7.84	6.04	6.53	3.45	2.73	2.42	6.80	2.87	2.37	1.25	4.84	-6.76	0.0016	0.051	-0.67
1005180	SKIP_OFF	ENSSSCG00000024088	1	109266431	109266550	5.39	4.25	4.49	2.31	1.74	2.11	4.71	2.05	2.29	1.20	3.38	-7.29	0.0012	0.045	-0.32
1005177	TSS	ENSSSCG00000024088	1	109584637	109584733	5.39	4.25	4.49	2.31	1.74	2.11	4.71	2.05	2.29	1.20	3.38	-7.29	0.0012	0.045	-0.32
1020278	MSKIP_OFF	ENSSSCG00000034493	13	160191825	160204775	1.63	1.68	1.85	0.55	0.91	0.81	1.72	0.76	2.27	1.18	1.24	-7.82	0.0009	0.041	0.01
1020291	XMSKIP_OFF	ENSSSCG00000034493	13	160191825	160204381	1.63	1.68	1.85	0.55	0.91	0.81	1.72	0.76	2.27	1.18	1.24	-7.82	0.0009	0.041	0.01
1020298	XSKIP_OFF	ENSSSCG00000034493	13	160204236	160204381	1.63	1.68	1.85	0.55	0.91	0.81	1.72	0.76	2.27	1.18	1.24	-7.82	0.0009	0.041	0.01
1074531	TSS	ENSSSCG00000015015	9	38582399	38583148	1.67	1.97	2.05	0.78	1.03	0.74	1.90	0.85	2.23	1.16	1.37	-7.19	0.0012	0.046	-0.38
1017953	TSS	ENSSSCG00000011977	13	160064051	160064647	25.94	30.48	25.28	10.04	14.97	12.12	27.23	12.38	2.20	1.14	19.81	-7.27	0.0012	0.046	-0.34
1013963	AE	ENSSSCG00000030167	12	18917114	18917247	24.16	24.48	23.67	9.38	9.55	14.50	24.11	11.14	2.16	1.11	17.62	-8.12	0.0007	0.038	0.19
1013959	TSS	ENSSSCG00000030167	12	18913190	18913407	24.16	24.48	23.67	9.38	9.55	14.50	24.11	11.14	2.16	1.11	17.62	-8.12	0.0007	0.038	0.19
1049667	TTS	ENSSSCG00000006177	4	62097975	62098400	3.25	2.70	3.54	1.39	1.42	1.58	3.16	1.46	2.16	1.11	2.31	-7.06	0.0013	0.048	-0.47
1038547	TSS	ENSSSCG00000013849	2	61476477	61476814	20.77	20.19	22.38	8.67	8.89	11.91	21.11	9.82	2.15	1.10	15.47	-9.71	0.0003	0.028	1.03
1038548	TTS	ENSSSCG00000013849	2	61450736	61455161	20.77	20.19	22.38	8.67	8.89	11.91	21.11	9.82	2.15	1.10	15.47	-9.71	0.0003	0.028	1.03
1010177	TTS	ENSSSCG00000022159	11	18564277	18566808	42.31	45.92	44.72	17.67	24.64	19.75	44.32	20.69	2.14	1.10	32.50	-10.80	0.0002	0.024	1.52
1078313	SKIP_OFF	ENSSSCG00000012126	X	10463816	10463935	33.86	36.07	36.82	14.79	21.11	15.79	35.58	17.23	2.07	1.05	26.40	-9.06	0.0005	0.032	0.70
1078308	TSS	ENSSSCG00000012126	X	10582201	10582431	33.98	36.49	37.33	15.14	21.27	15.79	35.93	17.40	2.07	1.05	26.66	-8.99	0.0005	0.032	0.67
1013962	TTS	ENSSSCG00000030167	12	18919292	18919407	44.79	48.30	44.40	18.51	20.97	27.82	45.83	22.43	2.04	1.03	34.13	-8.15	0.0007	0.038	0.21
1050981	TSS	ENSSSCG00000006644	4	98250968	98251593	11.98	13.16	12.17	4.36	7.12	6.93	12.44	6.14	2.03	1.02	9.29	-6.96	0.0014	0.049	-0.54
1050986	XSKIP_OFF	ENSSSCG00000006644	4	98254271	98254459	11.98	13.16	12.17	4.36	7.12	6.93	12.44	6.14	2.03	1.02	9.29	-6.96	0.0014	0.049	-0.54
1056491	TTS	ENSSSCG00000027792	5	79545430	79545440	7.35	7.44	7.11	3.47	4.64	2.70	7.30	3.60	2.03	1.02	5.45	-6.84	0.0015	0.050	-0.62
1036268	TSS	ENSSSCG00000012955	2	6126815	6126932	14.14	15.61	15.69	7.93	6.10	8.64	15.15	7.56	2.00	1.00	11.35	-8.86	0.0005	0.033	0.60
1063581	TSS	ENSSSCG00000032536	6	49402430	49402661	2.36	2.07	3.23	4.94	5.11	5.30	2.55	5.12	0.50	-1.00	3.83	7.42	0.0011	0.044	-0.24
1063582	TTS	ENSSSCG00000032536	6	49399123	49400510	2.36	2.07	3.23	4.94	5.11	5.30	2.55	5.12	0.50	-1.00	3.83	7.42	0.0011	0.044	-0.24
1062300	TSS	ENSSSCG00000026045	6	60759168	60759606	1.68	1.45	1.96	3.28	3.72	3.23	1.70	3.41	0.50	-1.01	2.55	8.40	0.0006	0.036	0.35
1062301	TTS	ENSSSCG00000026045	6	60768214	60773371	1.68	1.45	1.96	3.28	3.72	3.23	1.70	3.41	0.50	-1.01	2.55	8.40	0.0006	0.036	0.35
1065387	TSS	ENSSSCG00000039793	6	150605432	150605505	5.30	5.77	5.28	12.36	10.15	10.46	5.45	10.99	0.50	-1.01	8.22	8.30	0.0007	0.037	0.29
1065394	SKIP_OFF	ENSSSCG00000039793	6	150322722	150322811	5.30	5.77	5.28	12.36	10.15	10.46	5.45	10.99	0.50	-1.01	8.22	8.30	0.0007	0.037	0.29
1037214	TSS	ENSSSCG00000013360	2	40550623	40550843	7.63	7.90	10.29	17.43	19.29	15.38	8.61	17.36	0.50	-1.01	12.98	6.60	0.0018	0.053	-0.79
1037215	TTS	ENSSSCG00000013360	2	40545774	40547345	7.63	7.90	10.29	17.43	19.29	15.38	8.61	17.36	0.50	-1.01	12.98	6.60	0.0018	0.053	-0.79

1062338	TSS	ENSSSCG00000026152	6	52598136	52598375	6.60	5.63	6.06	13.95	10.58	12.41	6.10	12.31	0.50	-1.01	9.21	6.51	0.0019	0.054	-0.85
1062339	TTS	ENSSSCG00000026152	6	52559614	52559826	6.60	5.63	6.06	13.95	10.58	12.41	6.10	12.31	0.50	-1.01	9.21	6.51	0.0019	0.054	-0.85
1002950	TSS	ENSSSCG00000004983	1	169801523	169802376	5.47	3.76	3.64	8.43	8.17	9.41	4.29	8.67	0.49	-1.02	6.48	6.64	0.0017	0.053	-0.76
1015161	TSS	ENSSSCG00000011192	13	2840435	2840955	5.82	4.44	5.45	10.49	10.51	10.85	5.24	10.62	0.49	-1.02	7.93	13.28	0.0001	0.017	2.44
1015162	TTS	ENSSSCG00000011192	13	2786676	2786825	5.82	4.44	5.45	10.49	10.51	10.85	5.24	10.62	0.49	-1.02	7.93	13.28	0.0001	0.017	2.44
1024532	TSS	ENSSSCG00000010589	14	113707659	113707899	3.05	2.04	2.89	5.66	4.76	5.77	2.66	5.40	0.49	-1.02	4.03	6.47	0.0019	0.055	-0.88
1024533	TTS	ENSSSCG00000010589	14	113732447	113733826	3.05	2.04	2.89	5.66	4.76	5.77	2.66	5.40	0.49	-1.02	4.03	6.47	0.0019	0.055	-0.88
1071761	TSS	ENSSSCG00000009071	8	96269180	96269321	1.70	1.73	2.36	4.13	3.84	3.75	1.93	3.91	0.49	-1.02	2.92	8.57	0.0006	0.035	0.44
1015163	MSKIP_ON	ENSSSCG00000011192	13	2830603	2835308	5.82	4.44	5.14	10.26	10.30	10.85	5.13	10.47	0.49	-1.03	7.80	12.78	0.0001	0.019	2.28
1015165	MSKIP_ON	ENSSSCG00000011192	13	2833855	2836900	5.82	4.44	5.14	10.26	10.30	10.85	5.13	10.47	0.49	-1.03	7.80	12.78	0.0001	0.019	2.28
1013209	TSS	ENSSSCG00000017995	12	54584353	54585051	2.21	1.56	1.62	3.96	3.30	3.78	1.79	3.68	0.49	-1.04	2.74	6.98	0.0014	0.049	-0.52
1013210	TTS	ENSSSCG00000017995	12	54640087	54642376	2.21	1.56	1.62	3.96	3.30	3.78	1.79	3.68	0.49	-1.04	2.74	6.98	0.0014	0.049	-0.52
1017551	MSKIP_ON	ENSSSCG00000011849	13	134122648	134123063	4.04	4.15	5.96	9.45	8.95	10.71	4.72	9.70	0.49	-1.04	7.21	6.51	0.0019	0.054	-0.85
1017553	SKIP_ON	ENSSSCG00000011849	13	134122913	134123063	4.04	4.15	5.96	9.45	8.95	10.71	4.72	9.70	0.49	-1.04	7.21	6.51	0.0019	0.054	-0.85
1076241	TTS	ENSSSCG00000015645	9	67113960	67114343	4.25	4.59	4.93	9.67	8.80	9.96	4.59	9.48	0.48	-1.05	7.03	12.90	0.0001	0.019	2.32
1065392	SKIP_OFF	ENSSSCG00000039793	6	150342486	150342578	4.10	4.34	3.04	8.88	7.41	7.44	3.83	7.91	0.48	-1.05	5.87	6.89	0.0015	0.050	-0.58
1062303	IR_OFF	ENSSSCG00000026045	6	60763804	60764065	1.36	1.35	1.68	3.14	3.22	2.72	1.46	3.03	0.48	-1.05	2.25	8.50	0.0006	0.035	0.41
1065388	TTS	ENSSSCG00000039793	6	150247296	150251485	5.01	5.08	4.47	11.55	9.29	9.40	4.85	10.08	0.48	-1.05	7.47	7.30	0.0012	0.045	-0.31
1033458	SKIP_OFF	ENSSSCG00000028004	17	28029891	28031062	1.66	1.34	1.28	3.16	2.90	2.84	1.43	2.97	0.48	-1.05	2.20	10.16	0.0003	0.026	1.24
1033454	TSS	ENSSSCG00000028004	17	27855900	27856020	1.66	1.34	1.28	3.16	2.90	2.84	1.43	2.97	0.48	-1.05	2.20	10.16	0.0003	0.026	1.24
1017891	AE	ENSSSCG00000011949	13	157384808	157384870	2.56	1.83	3.03	5.53	5.15	4.74	2.47	5.14	0.48	-1.06	3.81	6.80	0.0016	0.050	-0.65
1044306	TSS	ENSSSCG00000007958	3	38813966	38815170	3.18	2.58	3.22	5.87	6.46	6.35	2.99	6.23	0.48	-1.06	4.61	12.33	0.0001	0.019	2.12
1044307	TTS	ENSSSCG00000007958	3	38805243	38808516	3.18	2.58	3.22	5.87	6.46	6.35	2.99	6.23	0.48	-1.06	4.61	12.33	0.0001	0.019	2.12
1075908	TSS	ENSSSCG00000015509	9	118113600	118114655	12.70	11.48	13.42	27.51	23.72	27.16	12.53	26.13	0.48	-1.06	19.33	10.81	0.0002	0.024	1.52
1075973	SKIP_ON	ENSSSCG00000015537	9	122359024	122359125	3.66	3.19	2.96	7.40	6.24	6.87	3.27	6.84	0.48	-1.06	5.05	9.57	0.0004	0.029	0.96
1075909	TTS	ENSSSCG00000015509	9	117915443	117915775	12.65	11.37	13.37	27.34	23.67	27.16	12.46	26.06	0.48	-1.06	19.26	10.84	0.0002	0.024	1.54
1065397	SKIP_ON	ENSSSCG00000039793	6	150548748	150548891	5.10	5.47	4.64	12.19	9.74	9.93	5.07	10.62	0.48	-1.07	7.85	7.15	0.0013	0.047	-0.41
1017546	SKIP_OFF	ENSSSCG00000011849	13	134120411	134120455	6.44	5.37	7.72	13.43	12.37	15.12	6.51	13.64	0.48	-1.07	10.07	7.21	0.0012	0.046	-0.37
1072749	AE	ENSSSCG00000026655	8	132130280	132130358	2.63	2.51	2.68	5.54	5.23	5.61	2.60	5.46	0.48	-1.07	4.03	22.63	0.0000	0.009	4.49
1072746	IR_OFF	ENSSSCG00000026655	8	132144939	132144955	2.63	2.51	2.68	5.54	5.23	5.61	2.60	5.46	0.48	-1.07	4.03	22.63	0.0000	0.009	4.49
1072747	XAE	ENSSSCG00000026655	8	132074583	132074699	2.63	2.51	2.68	5.54	5.23	5.61	2.60	5.46	0.48	-1.07	4.03	22.63	0.0000	0.009	4.49
1072744	XMSKIP_OFF	ENSSSCG00000026655	8	132051031	132054454	2.63	2.51	2.68	5.54	5.23	5.61	2.60	5.46	0.48	-1.07	4.03	22.63	0.0000	0.009	4.49
1079410	TSS	ENSSSCG00000012619	X	98095128	98095236	1.23	1.31	1.29	2.75	2.54	2.79	1.28	2.69	0.48	-1.07	1.99	16.63	0.0000	0.012	3.38
1073767	SKIP_OFF	ENSSSCG00000014598	9	2008898	2008930	6.80	7.94	6.40	15.93	14.81	13.88	7.05	14.87	0.47	-1.08	10.96	11.06	0.0002	0.023	1.63
1017544	TTS	ENSSSCG00000011849	13	134124013	134124823	7.83	6.08	8.15	16.00	14.10	16.46	7.35	15.52	0.47	-1.08	11.44	8.95	0.0005	0.032	0.65
1019259	SKIP_ON	ENSSSCG00000027571	13	165841504	165841572	4.46	4.64	5.20	11.57	9.41	9.29	4.77	10.09	0.47	-1.08	7.43	7.28	0.0012	0.045	-0.33
1037489	AE	ENSSSCG00000013427	2	77193065	77193206	7.89	7.63	9.98	18.85	18.94	16.26	8.50	18.01	0.47	-1.08	13.26	8.77	0.0005	0.033	0.55
1037490	XAE	ENSSSCG00000013427	2	77193065	77193206	7.89	7.63	9.98	18.85	18.94	16.26	8.50	18.01	0.47	-1.08	13.26	8.77	0.0005	0.033	0.55
1013923	TTS	ENSSSCG00000029553	12	917062	917264	1.47	1.32	1.87	3.50	3.05	3.33	1.55	3.29	0.47	-1.08	2.42	8.60	0.0006	0.035	0.46
1032383	SKIP_ON	ENSSSCG00000007247	17	35929730	35929802	3.31	3.03	2.41	6.54	6.02	6.08	2.92	6.21	0.47	-1.09	4.56	11.13	0.0002	0.023	1.66
1047244	AE	ENSSSCG00000029185	3	112087391	112087592	7.54	4.68	6.95	13.21	12.92	14.76	6.39	13.63	0.47	-1.09	10.01	7.38	0.0011	0.045	-0.26
1047241	TSS	ENSSSCG00000029185	3	112089263	112089586	7.54	4.68	6.95	13.21	12.92	14.76	6.39	13.63	0.47	-1.09	10.01	7.38	0.0011	0.045	-0.26
1012554	XMSKIP_OFF	ENSSSCG00000017754	12	44165136	44166843	1.14	1.33	1.80	3.28	3.08	2.78	1.43	3.04	0.47	-1.09	2.24	6.91	0.0015	0.049	-0.57
1012558	XSKIP_OFF	ENSSSCG00000017754	12	44166808	44166843	1.14	1.33	1.80	3.28	3.08	2.78	1.43	3.04	0.47	-1.09	2.24	6.91	0.0015	0.049	-0.57
1060060	TSS	ENSSSCG00000003619	6	89346932	89347036	1.16	1.30	1.47	2.62	2.72	3.07	1.31	2.80	0.47	-1.10	2.06	9.36	0.0004	0.030	0.86
1060061	TTS	ENSSSCG00000003619	6	89384841	89384979	1.16	1.30	1.47	2.62	2.72	3.07	1.31	2.80	0.47	-1.10	2.06	9.36	0.0004	0.030	0.86
1057139	AE	ENSSSCG00000035733	5	414555	414679	13.28	10.68	9.12	22.71	22.85	25.29	11.03	23.62	0.47	-1.10	17.32	9.07	0.0005	0.032	0.71
1057132	TSS	ENSSSCG00000035733	5	401269	401381	13.28	10.68	9.12	22.71	22.85	25.29	11.03	23.62	0.47	-1.10	17.32	9.07	0.0005	0.032	0.71
1051165	TSS	ENSSSCG00000006733	4	103676385	103676441	2.84	2.78	2.33	6.24	6.11	4.82	2.65	5.72	0.46	-1.11	4.18	6.75	0.0016	0.051	-0.68
1000061	IR_OFF	ENSSSCG00000004023	1	2098700	2101548	6.10	4.77	4.48	11.79	9.79	11.73	5.12	11.10	0.46	-1.12	8.11	7.69	0.0009	0.042	-0.07
1000059	MIR_OFF	ENSSSCG00000004023	1	2097678	2101548	6.10	4.77	4.48	11.79	9.79	11.73	5.12	11.10	0.46	-1.12	8.11	7.69	0.0009	0.042	-0.07
1013922	TSS	ENSSSCG00000029553	12	837752	837887	1.37	1.32	1.75	3.45	2.92	3.29	1.48	3.22	0.46	-1.12	2.35	8.78	0.0005	0.033	0.56
1013931	XAE	ENSSSCG00000029553	12	864924	865100	1.37	1.32	1.75	3.45	2.92	3.29	1.48	3.22	0.46	-1.12	2.35	8.78	0.0005	0.033	0.56
1013924	XSKIP_ON	ENSSSCG00000029553	12	890862	890958	1.37	1.32	1.75	3.45	2.92	3.29	1.48	3.22	0.46	-1.12	2.35	8.78	0.0005	0.033	0.56

1038771	SKIP_ON	ENSSSCG00000013895	2	59681239	59681259	1.32	1.26	1.49	3.31	2.75	2.80	1.36	2.95	0.46	-1.12	2.15	8.62	0.0006	0.035	0.47
1013921	TSS	ENSSSCG00000029553	12	833115	833527	1.09	1.00	1.21	2.09	2.39	2.71	1.10	2.39	0.46	-1.12	1.75	7.07	0.0013	0.047	-0.46
1055810	SKIP_OFF	ENSSSCG00000000939	5	100357554	100357634	2.95	1.74	1.83	4.67	4.95	4.58	2.17	4.74	0.46	-1.13	3.45	6.72	0.0016	0.052	-0.71
1055813	SKIP_ON	ENSSSCG00000000939	5	100357377	100357472	2.95	1.74	1.83	4.67	4.95	4.58	2.17	4.74	0.46	-1.13	3.45	6.72	0.0016	0.052	-0.71
1021979	TSS	ENSSSCG00000009822	14	31849687	31850332	1.09	0.98	1.24	2.35	2.70	2.21	1.11	2.42	0.46	-1.13	1.76	8.26	0.0007	0.037	0.27
1021980	TTS	ENSSSCG00000009822	14	31859213	31862651	1.09	0.98	1.24	2.35	2.70	2.21	1.11	2.42	0.46	-1.13	1.76	8.26	0.0007	0.037	0.27
1017887	TTS	ENSSSCG00000011949	13	157356251	157361581	2.56	1.84	3.03	5.89	5.45	4.94	2.48	5.43	0.46	-1.13	3.95	7.06	0.0013	0.048	-0.47
1063595	AE	ENSSSCG00000032585	6	58187493	58187630	2.07	2.37	2.88	5.88	5.63	4.54	2.44	5.35	0.46	-1.13	3.89	6.50	0.0019	0.054	-0.86
1063592	TSS	ENSSSCG00000032585	6	58188909	58189093	2.07	2.37	2.88	5.88	5.63	4.54	2.44	5.35	0.46	-1.13	3.89	6.50	0.0019	0.054	-0.86
1022693	TTS	ENSSSCG00000010031	14	48303322	48303506	2.74	2.21	3.03	6.70	5.20	5.63	2.66	5.84	0.45	-1.14	4.25	6.62	0.0017	0.053	-0.77
1038769	SKIP_ON	ENSSSCG00000013895	2	59679199	59679274	1.40	1.56	2.05	4.18	3.38	3.49	1.67	3.68	0.45	-1.14	2.68	6.66	0.0017	0.053	-0.74
1075912	SKIP_OFF	ENSSSCG00000015509	9	118058399	118058467	6.96	4.43	6.27	14.16	11.28	13.48	5.89	12.97	0.45	-1.14	9.43	6.53	0.0018	0.054	-0.84
1016834	TTS	ENSSSCG00000011670	13	82042731	82045106	10.12	9.90	14.20	22.16	27.81	25.62	11.41	25.20	0.45	-1.14	18.30	6.79	0.0016	0.051	-0.65
1063252	TSS	ENSSSCG00000031102	6	65333764	65333894	3.33	2.75	3.61	6.77	6.87	7.79	3.23	7.14	0.45	-1.14	5.19	10.06	0.0003	0.027	1.19
1063253	TTS	ENSSSCG00000031102	6	65323756	65327576	3.33	2.75	3.61	6.77	6.87	7.79	3.23	7.14	0.45	-1.14	5.19	10.06	0.0003	0.027	1.19
1013926	XAE	ENSSSCG00000029553	12	851814	851945	2.36	2.32	2.83	5.48	5.18	5.95	2.50	5.54	0.45	-1.15	4.02	11.49	0.0002	0.022	1.80
1013929	XAE	ENSSSCG00000029553	12	856994	857213	2.36	2.32	2.83	5.48	5.18	5.95	2.50	5.54	0.45	-1.15	4.02	11.49	0.0002	0.022	1.80
1021823	SKIP_ON	ENSSSCG00000009783	14	29894182	29894238	5.81	4.02	6.22	11.91	10.89	12.71	5.35	11.84	0.45	-1.15	8.60	8.05	0.0008	0.039	0.15
1015649	SKIP_ON	ENSSSCG00000011330	13	29857575	29857724	0.51	0.60	0.60	1.20	1.28	1.30	0.57	1.26	0.45	-1.15	0.91	12.47	0.0001	0.019	2.17
1015643	TSS	ENSSSCG00000011330	13	29855380	29855461	0.51	0.60	0.60	1.20	1.28	1.30	0.57	1.26	0.45	-1.15	0.91	12.47	0.0001	0.019	2.17
1038765	TSS	ENSSSCG00000013895	2	59684201	59684511	1.26	1.09	1.49	3.19	2.75	2.56	1.28	2.83	0.45	-1.15	2.06	7.36	0.0011	0.045	-0.28
1038778	XMIR_OFF	ENSSSCG00000013895	2	59680706	59681442	1.26	1.09	1.49	3.19	2.75	2.56	1.28	2.83	0.45	-1.15	2.06	7.36	0.0011	0.045	-0.28
1009882	TSS	ENSSSCG00000009501	11	65201457	65201471	10.16	8.87	10.31	24.06	19.13	22.15	9.78	21.78	0.45	-1.15	15.78	8.47	0.0006	0.035	0.39
1009885	XSKIP_OFF	ENSSSCG00000009501	11	65155199	65155225	10.16	8.87	10.31	24.06	19.13	22.15	9.78	21.78	0.45	-1.15	15.78	8.47	0.0006	0.035	0.39
1077402	SKIP_ON	ENSSSCG00000032721	9	133192899	133192958	1.59	1.72	1.79	4.04	3.21	4.12	1.70	3.79	0.45	-1.16	2.74	7.39	0.0011	0.045	-0.26
1021820	TSS	ENSSSCG00000009783	14	29894683	29895548	5.81	4.02	6.22	12.08	11.06	12.71	5.35	11.95	0.45	-1.16	8.65	8.45	0.0006	0.036	0.38
1074123	SKIP_ON	ENSSSCG00000014880	9	12071027	12071143	0.62	1.02	0.88	1.86	1.78	2.00	0.84	1.88	0.45	-1.16	1.36	8.00	0.0008	0.039	0.12
1003157	TTS	ENSSSCG00000005055	1	184495850	184496155	110.23	115.17	100.51	249.15	213.19	268.93	108.63	243.76	0.45	-1.17	176.20	8.51	0.0006	0.035	0.41
1003155	TSS	ENSSSCG00000005055	1	184478643	184478771	102.18	115.07	96.89	238.87	205.65	263.04	104.72	235.85	0.44	-1.17	170.28	7.97	0.0008	0.039	0.10
1013903	IR_ON	ENSSSCG00000029102	12	22308513	22309044	1.06	0.97	1.43	2.45	2.74	2.61	1.15	2.60	0.44	-1.17	1.88	9.05	0.0005	0.032	0.70
1013902	SKIP_OFF	ENSSSCG00000029102	12	22318990	22319046	1.06	0.97	1.43	2.45	2.74	2.61	1.15	2.60	0.44	-1.17	1.88	9.05	0.0005	0.032	0.70
1047242	TTS	ENSSSCG00000029185	3	112083268	112085409	9.17	6.53	9.05	18.12	16.98	20.99	8.25	18.70	0.44	-1.18	13.47	7.55	0.0010	0.043	-0.15
1079419	XAE	ENSSSCG00000012619	X	98104754	98104856	2.06	2.50	2.92	5.75	5.50	5.71	2.49	5.65	0.44	-1.18	4.07	12.76	0.0001	0.019	2.27
1037865	IR_ON	ENSSSCG00000013572	2	71577682	71577768	1.33	1.39	0.83	2.97	2.66	2.43	1.18	2.69	0.44	-1.18	1.94	6.70	0.0017	0.052	-0.72
1037862	SKIP_OFF	ENSSSCG00000013572	2	71601762	71601874	1.33	1.39	0.83	2.97	2.66	2.43	1.18	2.69	0.44	-1.18	1.94	6.70	0.0017	0.052	-0.72
1017547	SKIP_ON	ENSSSCG00000011849	13	134122648	134122743	6.59	5.30	7.58	14.77	13.60	15.83	6.49	14.73	0.44	-1.18	10.61	9.49	0.0004	0.029	0.92
1002142	SKIP_ON	ENSSSCG00000004704	1	127869779	127869923	0.83	1.23	1.49	2.45	2.93	2.68	1.18	2.69	0.44	-1.18	1.93	6.65	0.0017	0.053	-0.76
1065839	TTS	ENSSSCG00000001011	7	1681355	1685563	12.73	16.36	11.79	32.59	29.43	31.14	13.63	31.05	0.44	-1.19	22.34	11.11	0.0002	0.023	1.65
1065838	TSS	ENSSSCG00000001011	7	1693212	1693281	12.70	16.35	11.78	32.53	29.39	31.14	13.61	31.02	0.44	-1.19	22.32	11.11	0.0002	0.023	1.65
1012159	TTS	ENSSSCG00000017601	12	31272730	31272764	0.81	0.59	0.75	1.43	1.66	1.84	0.72	1.64	0.44	-1.19	1.18	7.00	0.0014	0.048	-0.51
1076398	TSS	ENSSSCG00000021702	9	9280491	9280627	1.01	0.91	0.86	1.88	2.46	2.02	0.93	2.12	0.44	-1.20	1.52	6.85	0.0015	0.050	-0.62
1076399	TTS	ENSSSCG00000021702	9	9176032	9179459	1.01	0.91	0.86	1.88	2.46	2.02	0.93	2.12	0.44	-1.20	1.52	6.85	0.0015	0.050	-0.62
1066035	IR_OFF	ENSSSCG00000001095	7	19588399	19591335	6.63	7.09	5.22	12.16	15.78	15.67	6.31	14.53	0.43	-1.20	10.42	6.64	0.0017	0.053	-0.76
1017564	AE	ENSSSCG00000011849	13	134108471	134108692	4.60	3.79	5.17	11.54	9.53	10.20	4.52	10.42	0.43	-1.21	7.47	8.80	0.0005	0.033	0.57
1069238	TTS	ENSSSCG00000025768	7	112167899	112167927	132.41	115.25	176.24	347.68	286.09	344.34	141.30	326.04	0.43	-1.21	233.67	7.27	0.0012	0.046	-0.33
1027502	TSS	ENSSSCG00000015931	15	75852198	75852290	2.62	2.22	3.29	6.81	6.46	5.52	2.71	6.26	0.43	-1.21	4.49	7.56	0.0010	0.043	-0.15
1027503	TTS	ENSSSCG00000015931	15	75872968	75874947	2.62	2.22	3.29	6.81	6.46	5.52	2.71	6.26	0.43	-1.21	4.49	7.56	0.0010	0.043	-0.15
1068303	SKIP_OFF	ENSSSCG00000002332	7	94942115	94942361	1.83	1.52	1.31	3.91	3.16	3.70	1.55	3.59	0.43	-1.21	2.57	7.93	0.0008	0.040	0.08
1068310	SKIP_ON	ENSSSCG00000002332	7	94879654	94879720	1.83	1.52	1.31	3.91	3.16	3.70	1.55	3.59	0.43	-1.21	2.57	7.93	0.0008	0.040	0.08
1068308	XSKIP_ON	ENSSSCG00000002332	7	94829992	94830087	1.83	1.52	1.31	3.91	3.16	3.70	1.55	3.59	0.43	-1.21	2.57	7.93	0.0008	0.040	0.08
1017555	SKIP_ON	ENSSSCG00000011849	13	134106510	134106580	4.60	3.70	5.17	11.54	9.44	10.20	4.49	10.39	0.43	-1.21	7.44	8.38	0.0006	0.036	0.34
1045306	TTS	ENSSSCG00000008336	3	72620712	72623370	16.85	23.47	20.13	50.44	39.63	50.40	20.15	46.82	0.43	-1.22	33.49	6.96	0.0014	0.049	-0.54
1045305	TSS	ENSSSCG00000008336	3	72694121	72694173	16.85	23.47	20.13	50.44	39.63	50.40	20.15	46.82	0.43	-1.22	33.49	6.96	0.0014	0.049	-0.54
1070914	TSS	ENSSSCG00000008761	8	20254332	20255039	2.93	2.14	3.17	6.10	6.79	6.29	2.75	6.39	0.43	-1.22	4.57	10.32	0.0003	0.026	1.31

1070915	TTS	ENSSSCG00000008761	8	20368774	20368848	2.93	2.14	3.17	6.10	6.79	6.29	2.75	6.39	0.43	-1.22	4.57	10.32	0.0003	0.026	1.31
1056727	TTS	ENSSSCG00000031441	5	2873428	2875485	4.73	3.17	3.38	8.67	8.13	9.49	3.76	8.76	0.43	-1.22	6.26	8.44	0.0006	0.036	0.37
1044426	TSS	ENSSSCG00000008004	3	41060908	41062032	4.91	4.01	4.92	9.89	11.28	11.14	4.61	10.77	0.43	-1.22	7.69	12.17	0.0001	0.019	2.06
1044427	TTS	ENSSSCG00000008004	3	41053268	41057978	4.91	4.01	4.92	9.89	11.28	11.14	4.61	10.77	0.43	-1.22	7.69	12.17	0.0001	0.019	2.06
1008516	SKIP_OFF	ENSSSCG00000024127	10	49056944	49057030	4.77	3.88	5.23	10.95	9.89	11.74	4.63	10.86	0.43	-1.23	7.74	9.90	0.0003	0.027	1.12
1008517	SKIP_ON	ENSSSCG00000024127	10	49053729	49053905	4.77	3.88	5.23	10.95	9.89	11.74	4.63	10.86	0.43	-1.23	7.74	9.90	0.0003	0.027	1.12
1002956	SKIP_ON	ENSSSCG00000004983	1	169843986	169844114	5.57	3.82	3.64	10.74	9.25	10.79	4.34	10.26	0.42	-1.24	7.30	7.90	0.0008	0.040	0.06
1024461	MSKIP_OFF	ENSSSCG00000010563	14	112495835	112510827	2.53	2.28	1.58	5.05	5.11	4.95	2.13	5.04	0.42	-1.24	3.58	10.54	0.0002	0.025	1.41
1024455	SKIP_OFF	ENSSSCG00000010563	14	112495835	112495912	2.53	2.28	1.58	5.05	5.11	4.95	2.13	5.04	0.42	-1.24	3.58	10.54	0.0002	0.025	1.41
1043988	TSS	ENSSSCG00000007839	3	23979880	23980230	6.59	5.76	7.82	15.62	14.71	17.37	6.72	15.90	0.42	-1.24	11.31	9.90	0.0003	0.027	1.12
1039468	SKIP_OFF	ENSSSCG00000014170	2	103324699	103324764	12.24	11.19	12.24	28.59	26.64	29.31	11.89	28.18	0.42	-1.24	20.04	19.86	0.0000	0.009	4.05
1005482	MSKIP_ON	ENSSSCG00000027765	1	175234854	175244312	3.20	3.79	3.95	9.58	7.94	8.42	3.65	8.65	0.42	-1.25	6.15	9.86	0.0003	0.028	1.10
1005474	SKIP_ON	ENSSSCG00000027765	1	175234854	175235006	3.20	3.79	3.95	9.58	7.94	8.42	3.65	8.65	0.42	-1.25	6.15	9.86	0.0003	0.028	1.10
1005478	SKIP_ON	ENSSSCG00000027765	1	175244214	175244312	3.20	3.79	3.95	9.58	7.94	8.42	3.65	8.65	0.42	-1.25	6.15	9.86	0.0003	0.028	1.10
1056726	TSS	ENSSSCG00000031441	5	2947615	2947785	4.53	3.17	3.38	8.67	8.13	9.49	3.69	8.76	0.42	-1.25	6.23	9.30	0.0004	0.030	0.83
1043990	TTS	ENSSSCG00000007839	3	23887124	23891252	6.80	6.74	8.03	16.49	16.05	18.95	7.19	17.16	0.42	-1.26	12.18	10.64	0.0002	0.025	1.45
1061958	TSS	ENSSSCG00000024476	6	27627759	27627840	7.17	4.30	5.82	13.27	12.54	15.45	5.76	13.75	0.42	-1.26	9.76	7.05	0.0013	0.048	-0.48
1061959	TTS	ENSSSCG00000024476	6	27637313	27637508	7.17	4.30	5.82	13.27	12.54	15.45	5.76	13.75	0.42	-1.26	9.76	7.05	0.0013	0.048	-0.48
1053150	TSS	ENSSSCG00000038558	4	98470392	98470664	20.01	15.75	22.66	41.58	45.66	52.45	19.47	46.56	0.42	-1.26	33.02	7.66	0.0009	0.042	-0.08
1003727	SKIP_ON	ENSSSCG00000005272	1	228123311	228123382	1.96	2.23	2.60	5.53	5.27	5.45	2.26	5.42	0.42	-1.26	3.84	16.22	0.0000	0.013	3.28
1043422	AE	ENSSSCG00000007568	3	1884375	1885672	1.06	0.66	0.98	2.22	2.08	2.21	0.90	2.17	0.41	-1.27	1.54	10.01	0.0003	0.027	1.17
1004414	TTS	ENSSSCG00000005582	1	264045670	264046096	1.48	1.78	1.94	4.23	3.98	4.34	1.73	4.19	0.41	-1.27	2.96	14.72	0.0001	0.015	2.88
1043413	SKIP_ON	ENSSSCG00000007568	3	1893261	1893395	1.13	0.80	1.13	2.51	2.26	2.68	1.02	2.48	0.41	-1.28	1.75	9.10	0.0005	0.032	0.72
1003724	TSS	ENSSSCG00000005272	1	228141654	228142091	1.33	1.71	1.68	4.03	3.34	4.15	1.57	3.84	0.41	-1.29	2.71	8.54	0.0006	0.035	0.43
1041230	TTS	ENSSSCG00000028144	2	62352434	62353106	1.91	1.61	2.59	5.18	4.57	5.18	2.04	4.98	0.41	-1.29	3.51	8.80	0.0005	0.033	0.57
1006683	TSS	ENSSSCG00000037508	1	261314310	261315093	1.85	2.31	2.05	5.06	5.10	5.03	2.07	5.07	0.41	-1.29	3.57	22.55	0.0000	0.009	4.48
1074872	TTS	ENSSSCG00000015120	9	46563482	46565228	5.46	2.65	4.13	10.71	9.69	9.62	4.08	10.01	0.41	-1.29	7.04	7.11	0.0013	0.047	-0.44
1053153	SKIP_ON	ENSSSCG00000038558	4	98500781	98500912	17.35	14.26	19.19	36.04	40.70	47.85	16.93	41.53	0.41	-1.29	29.23	7.02	0.0014	0.048	-0.50
1004111	TSS	ENSSSCG00000005425	1	246548367	246548794	20.67	19.37	22.65	50.18	48.37	55.47	20.90	51.34	0.41	-1.30	36.12	13.85	0.0001	0.017	2.62
1016206	SKIP_ON	ENSSSCG00000011482	13	40582144	40582518	1.10	1.20	1.29	2.97	2.49	3.35	1.19	2.94	0.41	-1.30	2.07	7.20	0.0012	0.046	-0.38
1061792	TSS	ENSSSCG00000023276	6	119192757	119193356	2.61	1.36	1.99	4.90	4.55	5.23	1.99	4.89	0.41	-1.30	3.44	7.49	0.0010	0.043	-0.19
1002583	TTS	ENSSSCG00000004856	1	145914838	145914887	2.35	2.39	2.12	5.97	6.16	4.88	2.29	5.67	0.40	-1.31	3.98	8.78	0.0005	0.033	0.56
1004114	IR_ON	ENSSSCG00000005425	1	246706001	246706092	20.54	19.10	21.87	49.43	47.84	55.27	20.50	50.85	0.40	-1.31	35.68	13.45	0.0001	0.017	2.50
1004113	TTS	ENSSSCG00000005425	1	246712492	246714861	20.54	19.00	21.87	49.43	47.84	55.27	20.47	50.85	0.40	-1.31	35.66	13.41	0.0001	0.017	2.49
1043201	TSS	ENSSSCG00000040416	2	5906314	5906388	6.60	5.61	7.62	17.85	14.07	17.34	6.61	16.42	0.40	-1.31	11.51	7.91	0.0008	0.040	0.06
1043202	TTS	ENSSSCG00000040416	2	5886993	5889017	6.60	5.61	7.62	17.85	14.07	17.34	6.61	16.42	0.40	-1.31	11.51	7.91	0.0008	0.040	0.06
1045468	MSKIP_ON	ENSSSCG00000008386	3	80725341	80728852	2.89	1.39	2.22	5.84	5.07	5.27	2.17	5.40	0.40	-1.32	3.78	6.97	0.0014	0.049	-0.53
1003725	TTS	ENSSSCG00000005272	1	228110584	228113906	0.62	0.52	0.93	1.58	1.70	1.89	0.69	1.72	0.40	-1.32	1.21	6.99	0.0014	0.048	-0.52
1066031	TTS	ENSSSCG00000001095	7	19594926	19595084	8.55	8.40	7.30	18.22	20.48	21.89	8.09	20.20	0.40	-1.32	14.14	11.28	0.0002	0.022	1.72
1074876	IR_OFF	ENSSSCG00000015120	9	46565827	46566044	5.25	2.57	4.08	10.61	9.51	9.62	3.97	9.92	0.40	-1.32	6.94	7.43	0.0011	0.044	-0.23
1021241	SKIP_ON	ENSSSCG00000009578	14	20143	20331	0.46	0.71	0.46	1.38	1.50	1.18	0.54	1.35	0.40	-1.32	0.95	6.47	0.0019	0.055	-0.88
1063119	TTS	ENSSSCG00000030018	6	119185481	119188299	2.72	1.36	1.99	5.18	4.55	5.46	2.02	5.06	0.40	-1.32	3.54	6.77	0.0016	0.051	-0.67
1013571	TSS	ENSSSCG00000023423	12	5208271	5208679	18.61	14.57	16.37	39.83	38.40	45.95	16.51	41.39	0.40	-1.33	28.95	10.19	0.0003	0.026	1.25
1013572	TTS	ENSSSCG00000023423	12	5203195	5204286	18.61	14.57	16.37	39.83	38.40	45.95	16.51	41.39	0.40	-1.33	28.95	10.19	0.0003	0.026	1.25
1074206	SKIP_OFF	ENSSSCG00000014909	9	19639974	19640021	0.79	0.99	1.26	2.25	2.45	2.92	1.01	2.54	0.40	-1.33	1.78	6.69	0.0017	0.052	-0.72
1029414	SKIP_OFF	ENSSSCG00000029002	15	120347643	120347759	3.67	4.07	3.73	10.08	9.23	9.50	3.82	9.60	0.40	-1.33	6.71	21.66	0.0000	0.009	4.35
1029412	TTS	ENSSSCG00000029002	15	120409735	120411641	3.67	4.07	3.73	10.08	9.23	9.50	3.82	9.60	0.40	-1.33	6.71	21.66	0.0000	0.009	4.35
1073937	TTS	ENSSSCG00000014818	9	7301154	7303228	2.51	2.98	3.87	8.53	7.05	7.95	3.12	7.84	0.40	-1.33	5.48	8.52	0.0006	0.035	0.42
1069830	TSS	ENSSSCG00000033093	7	95746786	95746887	0.76	1.06	1.41	2.51	2.77	2.85	1.08	2.71	0.40	-1.33	1.89	8.03	0.0008	0.039	0.14
1069831	TTS	ENSSSCG00000033093	7	95926094	95930034	0.76	1.06	1.41	2.51	2.77	2.85	1.08	2.71	0.40	-1.33	1.89	8.03	0.0008	0.039	0.14
1062528	TSS	ENSSSCG00000027169	6	105613258	105613386	2.84	3.24	3.50	7.58	7.96	8.59	3.19	8.04	0.40	-1.33	5.62	14.57	0.0001	0.015	2.84
1062529	TTS	ENSSSCG00000027169	6	105645096	105645113	2.84	3.24	3.50	7.58	7.96	8.59	3.19	8.04	0.40	-1.33	5.62	14.57	0.0001	0.015	2.84
1010604	TTS	ENSSSCG00000035318	11	3265765	3266161	0.81	0.94	0.77	2.25	1.98	2.12	0.84	2.12	0.40	-1.33	1.48	13.13	0.0001	0.018	2.40
1063392	IR_OFF	ENSSSCG00000031781	6	28545357	28546178	8.70	8.18	6.63	22.23	18.01	19.12	7.84	19.78	0.40	-1.34	13.81	9.01	0.0005	0.032	0.68

1048013	TSS	ENSSSCG00000035256	3	17978746	17978861	0.57	0.52	0.72	1.57	1.69	1.32	0.60	1.53	0.40	-1.34	1.07	7.42	0.0011	0.044	-0.23
1048014	TTS	ENSSSCG00000035256	3	17979260	17985101	0.57	0.52	0.72	1.57	1.69	1.32	0.60	1.53	0.40	-1.34	1.07	7.42	0.0011	0.044	-0.23
1002951	TTS	ENSSSCG00000004983	1	169867741	169867907	8.62	6.82	7.02	21.19	15.51	20.49	7.49	19.06	0.39	-1.35	13.27	6.55	0.0018	0.054	-0.82
1004016	TSS	ENSSSCG00000005376	1	240049360	240049734	0.96	1.06	1.09	3.05	2.58	2.29	1.04	2.64	0.39	-1.35	1.84	7.51	0.0010	0.043	-0.18
1004017	TTS	ENSSSCG00000005376	1	240004944	240005157	0.96	1.06	1.09	3.05	2.58	2.29	1.04	2.64	0.39	-1.35	1.84	7.51	0.0010	0.043	-0.18
1017541	TSS	ENSSSCG00000011849	13	134098408	134098661	1.62	1.06	1.60	3.31	3.42	4.16	1.42	3.63	0.39	-1.35	2.53	7.17	0.0012	0.047	-0.40
1062740	SKIP_OFF	ENSSSCG00000028126	6	97325537	97325616	2.09	1.23	2.35	4.67	4.89	4.96	1.89	4.84	0.39	-1.36	3.37	8.91	0.0005	0.033	0.62
1043924	SKIP_OFF	ENSSSCG00000007814	3	19240628	19240687	0.62	0.61	0.94	1.87	1.61	2.08	0.72	1.85	0.39	-1.36	1.29	6.76	0.0016	0.051	-0.68
1049488	TSS	ENSSSCG00000006108	4	42930834	42931137	6.61	7.21	9.60	23.19	18.29	18.83	7.81	20.10	0.39	-1.36	13.96	7.25	0.0012	0.046	-0.34
1001960	IR_OFF	ENSSSCG00000004651	1	122426153	122426241	1.73	2.32	1.41	4.55	4.70	4.81	1.82	4.69	0.39	-1.37	3.25	10.79	0.0002	0.024	1.52
1029968	MSKIP_OFF	ENSSSCG00000036679	15	46633434	46635454	0.69	0.80	0.96	2.01	1.94	2.36	0.81	2.10	0.39	-1.37	1.46	8.75	0.0005	0.034	0.54
1002141	TTS	ENSSSCG00000004704	1	127913530	127915445	1.69	1.62	2.79	5.82	4.75	5.31	2.03	5.29	0.38	-1.38	3.66	7.04	0.0013	0.048	-0.48
1029965	SKIP_ON	ENSSSCG00000036679	15	46621430	46622995	0.70	0.80	0.97	2.06	1.99	2.39	0.82	2.15	0.38	-1.38	1.48	9.30	0.0004	0.030	0.83
1013448	SKIP_ON	ENSSSCG00000022196	12	40212120	40212293	0.89	0.46	0.49	1.61	1.62	1.58	0.62	1.60	0.38	-1.38	1.11	7.20	0.0012	0.046	-0.38
1013447	TTS	ENSSSCG00000022196	12	40229934	40230006	0.89	0.46	0.49	1.61	1.62	1.58	0.62	1.60	0.38	-1.38	1.11	7.20	0.0012	0.046	-0.38
1062737	TSS	ENSSSCG00000028126	6	97324691	97324885	2.37	1.50	2.82	5.61	5.94	5.90	2.23	5.82	0.38	-1.38	4.03	9.47	0.0004	0.029	0.91
1062738	TTS	ENSSSCG00000028126	6	97343305	97345993	2.37	1.50	2.82	5.61	5.94	5.90	2.23	5.82	0.38	-1.38	4.03	9.47	0.0004	0.029	0.91
1071350	TTS	ENSSSCG00000008942	8	67695793	67702227	12.21	10.94	11.11	32.40	30.53	26.50	11.42	29.81	0.38	-1.38	20.61	10.94	0.0002	0.023	1.58
1067624	TSS	ENSSSCG00000001913	7	59452117	59452420	4.01	2.89	3.89	8.11	9.39	10.71	3.60	9.40	0.38	-1.39	6.50	7.41	0.0011	0.044	-0.24
1067625	TTS	ENSSSCG00000001913	7	59460278	59461206	4.01	2.89	3.89	8.11	9.39	10.71	3.60	9.40	0.38	-1.39	6.50	7.41	0.0011	0.044	-0.24
1070064	IR_ON	ENSSSCG00000035153	7	20684479	20684559	2.03	1.65	2.57	5.67	4.81	5.90	2.08	5.46	0.38	-1.39	3.77	8.41	0.0006	0.036	0.36
1070062	MIR_ON	ENSSSCG00000035153	7	20684479	20684750	2.03	1.65	2.57	5.67	4.81	5.90	2.08	5.46	0.38	-1.39	3.77	8.41	0.0006	0.036	0.36
1079416	SKIP_ON	ENSSSCG00000012619	X	98040878	98040922	1.23	2.14	1.74	4.19	4.54	4.73	1.71	4.48	0.38	-1.39	3.10	9.54	0.0004	0.029	0.95
1075717	TSS	ENSSSCG00000015434	9	105985831	105986060	33.61	31.34	33.17	90.19	70.87	96.79	32.71	85.95	0.38	-1.39	59.33	7.25	0.0012	0.046	-0.35
1075720	XAE	ENSSSCG00000015434	9	105984989	105985060	33.61	31.34	33.17	90.19	70.87	96.79	32.71	85.95	0.38	-1.39	59.33	7.25	0.0012	0.046	-0.35
1001823	TSS	ENSSSCG00000004617	1	119020990	119021978	5.38	4.61	7.10	16.18	14.53	14.30	5.70	15.00	0.38	-1.40	10.35	10.45	0.0002	0.025	1.37
1002149	SKIP_OFF	ENSSSCG00000004704	1	127910069	127910182	0.37	0.34	0.44	0.88	0.97	1.16	0.38	1.01	0.38	-1.40	0.69	6.81	0.0016	0.050	-0.64
1002140	TSS	ENSSSCG00000004704	1	127869890	127869923	0.37	0.34	0.44	0.88	0.97	1.16	0.38	1.01	0.38	-1.40	0.69	6.81	0.0016	0.050	-0.64
1079562	SKIP_OFF	ENSSSCG00000012660	X	106829230	106829476	1.99	1.37	2.26	5.24	4.39	5.21	1.87	4.94	0.38	-1.40	3.41	8.51	0.0006	0.035	0.41
1013446	TSS	ENSSSCG00000022196	12	40205096	40205358	0.89	0.46	0.49	1.61	1.62	1.65	0.62	1.63	0.38	-1.40	1.12	7.36	0.0011	0.045	-0.28
1002581	TSS	ENSSSCG00000004856	1	146002702	146003308	2.05	2.05	2.24	6.04	5.25	5.61	2.12	5.63	0.38	-1.41	3.87	15.60	0.0000	0.013	3.12
1075718	TTS	ENSSSCG00000015434	9	105951383	105954349	37.64	36.04	37.10	102.56	82.22	110.32	36.93	98.37	0.38	-1.41	67.65	7.78	0.0009	0.041	-0.01
1049492	SKIP_ON	ENSSSCG00000006108	4	42884699	42884803	6.75	7.13	9.43	24.60	18.42	19.19	7.77	20.74	0.37	-1.42	14.25	6.51	0.0019	0.054	-0.85
1076007	XSKIP_ON	ENSSSCG00000015549	9	123909838	123910034	1.26	1.27	1.56	3.66	3.44	3.84	1.37	3.65	0.37	-1.42	2.51	15.67	0.0000	0.013	3.14
1076338	MSKIP_OFF	ENSSSCG00000015664	9	67954724	67958377	3.63	2.29	2.31	6.99	7.06	7.94	2.74	7.33	0.37	-1.42	5.04	9.03	0.0005	0.032	0.69
1076341	SKIP_OFF	ENSSSCG00000015664	9	67954724	67954744	3.63	2.29	2.31	6.99	7.06	7.94	2.74	7.33	0.37	-1.42	5.04	9.03	0.0005	0.032	0.69
1076331	SKIP_ON	ENSSSCG00000015664	9	67952156	67952176	3.63	2.29	2.31	6.99	7.06	7.94	2.74	7.33	0.37	-1.42	5.04	9.03	0.0005	0.032	0.69
1076319	XSKIP_ON	ENSSSCG00000015664	9	67947529	67947897	3.63	2.29	2.31	6.99	7.06	7.94	2.74	7.33	0.37	-1.42	5.04	9.03	0.0005	0.032	0.69
1066029	TSS	ENSSSCG00000001095	7	19586002	19586585	5.03	5.04	4.33	11.35	13.46	13.69	4.80	12.83	0.37	-1.42	8.82	10.90	0.0002	0.023	1.56
1063389	TSS	ENSSSCG00000031781	6	28548002	28548152	8.31	7.77	6.09	22.23	18.01	19.12	7.39	19.78	0.37	-1.42	13.59	9.20	0.0004	0.031	0.78
1006689	SKIP_OFF	ENSSSCG00000037508	1	261345165	261345226	1.48	2.06	1.69	4.70	4.78	4.58	1.75	4.69	0.37	-1.43	3.22	16.97	0.0000	0.012	3.46
1006690	SKIP_ON	ENSSSCG00000037508	1	261326633	261326716	1.48	2.06	1.69	4.70	4.78	4.58	1.75	4.69	0.37	-1.43	3.22	16.97	0.0000	0.012	3.46
1069237	TSS	ENSSSCG00000025768	7	112160789	112161017	83.68	73.90	101.76	238.13	209.30	252.83	86.44	233.42	0.37	-1.43	159.93	10.30	0.0003	0.026	1.30
1017566	AE	ENSSSCG00000011849	13	134122913	134123040	2.78	1.39	1.84	5.70	5.15	5.44	2.00	5.43	0.37	-1.44	3.71	8.26	0.0007	0.037	0.27
1040768	TSS	ENSSSCG00000024389	2	229252	229570	1.31	1.37	1.54	4.33	3.08	4.05	1.41	3.82	0.37	-1.44	2.61	6.59	0.0018	0.053	-0.80
1040769	TTS	ENSSSCG00000024389	2	221989	223854	1.31	1.37	1.54	4.33	3.08	4.05	1.41	3.82	0.37	-1.44	2.61	6.59	0.0018	0.053	-0.80
1029989	AE	ENSSSCG00000036679	15	46673660	46673715	3.51	3.90	5.22	12.20	10.17	11.89	4.21	11.42	0.37	-1.44	7.82	9.35	0.0004	0.030	0.86
1070060	SKIP_ON	ENSSSCG00000035153	7	20682902	20682924	1.75	1.52	2.42	5.32	4.58	5.61	1.90	5.17	0.37	-1.45	3.53	8.45	0.0006	0.036	0.38
1050088	XSKIP_ON	ENSSSCG00000006309	4	83579006	83579041	1.86	1.13	1.86	4.87	4.34	4.08	1.62	4.43	0.37	-1.45	3.02	8.77	0.0005	0.033	0.55
1029983	MSKIP_ON	ENSSSCG00000036679	15	46684528	46727479	2.81	3.10	4.26	10.15	8.18	9.50	3.39	9.28	0.37	-1.45	6.33	8.58	0.0006	0.035	0.45
1029986	SKIP_OFF	ENSSSCG00000036679	15	46636139	46636297	2.81	3.10	4.26	10.15	8.18	9.50	3.39	9.28	0.37	-1.45	6.33	8.58	0.0006	0.035	0.45
1029969	SKIP_ON	ENSSSCG00000036679	15	46727424	46727479	2.81	3.10	4.26	10.15	8.18	9.50	3.39	9.28	0.37	-1.45	6.33	8.58	0.0006	0.035	0.45
1025401	TTS	ENSSSCG00000025876	14	71442852	71443821	2.45	1.59	3.63	6.69	7.38	6.96	2.56	7.01	0.36	-1.45	4.78	7.56	0.0010	0.043	-0.15
1018959	SKIP_ON	ENSSSCG00000025408	13	25726122	25726223	1.90	2.01	2.74	6.34	5.36	6.57	2.22	6.09	0.36	-1.46	4.15	8.96	0.0005	0.032	0.65

1029967	MSKIP_ON	ENSSSCG00000036679	15	46633434	46635454	2.82	3.10	4.27	10.19	8.23	9.53	3.40	9.32	0.36	-1.46	6.36	8.65	0.0006	0.034	0.49
1068589	IR_OFF	ENSSSCG00000002428	7	110750762	110750877	5.80	5.65	7.01	17.61	13.94	19.11	6.15	16.89	0.36	-1.46	11.52	7.15	0.0013	0.047	-0.41
1068584	TSS	ENSSSCG00000002428	7	110731668	110731940	5.80	5.65	7.01	17.61	13.94	19.11	6.15	16.89	0.36	-1.46	11.52	7.15	0.0013	0.047	-0.41
1021593	TSS	ENSSSCG00000009714	14	20144601	20144723	1.07	1.16	0.59	2.24	2.59	2.90	0.94	2.58	0.36	-1.46	1.76	6.64	0.0017	0.053	-0.76
1068585	TTS	ENSSSCG00000002428	7	110783385	110783501	5.80	5.65	7.01	17.61	14.06	19.11	6.15	16.93	0.36	-1.46	11.54	7.35	0.0011	0.045	-0.28
1022433	SKIP_ON	ENSSSCG00000009956	14	43364583	43364656	2.91	3.28	2.66	8.03	7.50	8.82	2.95	8.12	0.36	-1.46	5.53	12.88	0.0001	0.019	2.31
1018952	TTS	ENSSSCG000000025408	13	25210498	25213056	1.90	1.98	2.70	6.28	5.36	6.50	2.19	6.04	0.36	-1.46	4.12	9.43	0.0004	0.030	0.89
1070056	TSS	ENSSSCG000000035153	7	20682082	20682755	1.98	1.91	2.87	6.08	5.41	7.28	2.26	6.26	0.36	-1.47	4.26	6.78	0.0016	0.051	-0.66
1043933	SKIP_OFF	ENSSSCG00000007814	3	19274300	19274428	0.76	0.54	0.66	1.93	1.58	1.96	0.66	1.83	0.36	-1.48	1.24	8.64	0.0006	0.034	0.49
1055225	TSS	ENSSSCG00000000741	5	67280924	67281762	0.13	0.17	0.22	0.49	0.46	0.51	0.17	0.49	0.36	-1.49	0.33	6.57	0.0018	0.054	-0.81
1055226	TTS	ENSSSCG00000000741	5	67290121	67292348	0.13	0.17	0.22	0.49	0.46	0.51	0.17	0.49	0.36	-1.49	0.33	6.57	0.0018	0.054	-0.81
1076005	TSS	ENSSSCG000000015549	9	123910348	123910397	1.36	1.36	1.93	4.63	4.03	4.37	1.55	4.34	0.36	-1.49	2.95	11.35	0.0002	0.022	1.75
1076006	TTS	ENSSSCG000000015549	9	123892115	123895470	1.36	1.36	1.93	4.63	4.03	4.37	1.55	4.34	0.36	-1.49	2.95	11.35	0.0002	0.022	1.75
1032862	TSS	ENSSSCG00000007454	17	49337732	49337793	7.89	5.62	6.88	20.78	16.88	19.44	6.79	19.03	0.36	-1.49	12.91	9.86	0.0003	0.028	1.10
1032863	TTS	ENSSSCG00000007454	17	49258553	49260250	7.89	5.62	6.88	20.78	16.88	19.44	6.79	19.03	0.36	-1.49	12.91	9.86	0.0003	0.028	1.10
1018951	TSS	ENSSSCG000000025408	13	25751275	25751362	1.90	2.01	2.74	6.66	5.36	6.64	2.22	6.22	0.36	-1.49	4.22	8.37	0.0006	0.036	0.33
1022694	SKIP_ON	ENSSSCG000000010031	14	48298349	48298509	1.83	0.96	1.46	4.57	3.50	3.85	1.42	3.97	0.36	-1.49	2.69	6.70	0.0017	0.052	-0.72
1034429	TSS	ENSSSCG000000016491	18	8205725	8205996	2.28	2.00	2.14	4.90	6.40	6.71	2.14	6.00	0.36	-1.49	4.07	7.26	0.0012	0.046	-0.34
1034430	TTS	ENSSSCG000000016491	18	8256074	8256269	2.28	2.00	2.14	4.90	6.40	6.71	2.14	6.00	0.36	-1.49	4.07	7.26	0.0012	0.046	-0.34
1023179	TSS	ENSSSCG000000010164	14	57480793	57481988	3.18	2.67	3.75	9.44	7.85	9.69	3.20	8.99	0.36	-1.49	6.10	9.37	0.0004	0.030	0.86
1023180	TTS	ENSSSCG000000010164	14	57424780	57428021	3.18	2.67	3.75	9.44	7.85	9.69	3.20	8.99	0.36	-1.49	6.10	9.37	0.0004	0.030	0.86
1012768	AE	ENSSSCG000000017829	12	48417303	48418064	0.43	0.25	0.55	1.12	1.24	1.10	0.41	1.15	0.36	-1.49	0.78	7.49	0.0010	0.043	-0.19
1012764	IR_OFF	ENSSSCG000000017829	12	48456557	48456663	0.43	0.25	0.55	1.12	1.24	1.10	0.41	1.15	0.36	-1.49	0.78	7.49	0.0010	0.043	-0.19
1012754	TSS	ENSSSCG000000017829	12	48417089	48417225	0.43	0.25	0.55	1.12	1.24	1.10	0.41	1.15	0.36	-1.49	0.78	7.49	0.0010	0.043	-0.19
1012762	XIR_OFF	ENSSSCG000000017829	12	48417225	48417303	0.43	0.25	0.55	1.12	1.24	1.10	0.41	1.15	0.36	-1.49	0.78	7.49	0.0010	0.043	-0.19
1009292	TSS	ENSSSCG00000009293	11	2829290	2829535	1.88	2.27	1.82	6.67	5.14	5.10	1.99	5.64	0.35	-1.50	3.81	7.20	0.0012	0.046	-0.38
1076252	AE	ENSSSCG000000015645	9	66839798	66840598	1.79	1.43	1.47	4.94	4.23	4.12	1.56	4.43	0.35	-1.50	3.00	10.75	0.0002	0.024	1.50
1015605	TSS	ENSSSCG000000011314	13	28996446	28996615	17.74	9.82	16.65	46.62	35.74	43.09	14.74	41.82	0.35	-1.50	28.28	7.10	0.0013	0.047	-0.44
1015606	TTS	ENSSSCG000000011314	13	28977503	28977963	17.74	9.82	16.65	46.62	35.74	43.09	14.74	41.82	0.35	-1.50	28.28	7.10	0.0013	0.047	-0.44
1017557	MSKIP_ON	ENSSSCG000000011849	13	134122648	134123040	2.55	1.15	1.62	5.32	4.65	5.12	1.77	5.03	0.35	-1.51	3.40	7.55	0.0010	0.043	-0.16
1017558	SKIP_ON	ENSSSCG000000011849	13	134122913	134123040	2.55	1.15	1.62	5.32	4.65	5.12	1.77	5.03	0.35	-1.51	3.40	7.55	0.0010	0.043	-0.16
1025402	SKIP_ON	ENSSSCG000000025876	14	71456564	71456662	2.45	1.59	2.90	6.69	7.38	5.69	2.32	6.59	0.35	-1.51	4.45	7.26	0.0012	0.046	-0.34
1003920	TSS	ENSSSCG000000005324	1	236550424	236551267	1.34	0.59	1.47	3.57	2.97	3.14	1.13	3.23	0.35	-1.51	2.18	6.72	0.0016	0.052	-0.70
1003921	TTS	ENSSSCG000000005324	1	236539348	236539523	1.34	0.59	1.47	3.57	2.97	3.14	1.13	3.23	0.35	-1.51	2.18	6.72	0.0016	0.052	-0.70
1021957	TSS	ENSSSCG000000009814	14	31259727	31260038	7.57	4.94	6.92	19.63	14.97	20.82	6.47	18.48	0.35	-1.51	12.48	6.53	0.0018	0.054	-0.84
1021958	TTS	ENSSSCG000000009814	14	31306107	31306441	7.57	4.94	6.92	19.63	14.97	20.82	6.47	18.48	0.35	-1.51	12.48	6.53	0.0018	0.054	-0.84
1044489	TTS	ENSSSCG000000008020	3	40371484	40372136	6.06	5.52	5.78	18.65	13.23	17.66	5.79	16.52	0.35	-1.51	11.15	6.81	0.0016	0.050	-0.64
1076248	SKIP_OFF	ENSSSCG000000015645	9	67111018	67111056	1.83	1.43	1.47	4.94	4.35	4.24	1.58	4.51	0.35	-1.52	3.04	12.20	0.0001	0.019	2.07
1076245	SKIP_ON	ENSSSCG000000015645	9	67107456	67107602	1.83	1.43	1.47	4.94	4.35	4.24	1.58	4.51	0.35	-1.52	3.04	12.20	0.0001	0.019	2.07
1044488	TSS	ENSSSCG000000008020	3	40309635	40309750	6.06	5.45	5.74	18.62	13.16	17.63	5.75	16.47	0.35	-1.52	11.11	6.74	0.0016	0.051	-0.69
1052735	TSS	ENSSSCG000000034398	4	41372785	41373922	3.46	3.17	3.55	9.94	10.04	9.26	3.39	9.75	0.35	-1.52	6.57	24.56	0.0000	0.009	4.75
1052736	TTS	ENSSSCG000000034398	4	41392294	41397071	3.46	3.17	3.55	9.94	10.04	9.26	3.39	9.75	0.35	-1.52	6.57	24.56	0.0000	0.009	4.75
1047455	TSS	ENSSSCG000000031876	3	24910674	24910849	4.86	5.23	7.67	15.49	18.83	16.86	5.92	17.06	0.35	-1.53	11.49	9.04	0.0005	0.032	0.69
1062739	SKIP_ON	ENSSSCG000000028126	6	97325537	97325616	0.27	0.27	0.47	0.94	1.05	0.94	0.34	0.97	0.35	-1.53	0.66	7.91	0.0008	0.040	0.07
1037654	SKIP_ON	ENSSSCG000000013494	2	74915417	74915482	0.48	0.61	0.51	1.48	1.41	1.76	0.54	1.55	0.35	-1.53	1.04	8.80	0.0005	0.033	0.57
1067990	SKIP_ON	ENSSSCG00000002041	7	76202082	76202212	0.48	0.66	0.81	2.10	1.63	1.89	0.65	1.87	0.35	-1.53	1.26	7.58	0.0010	0.043	-0.14
1067986	TSS	ENSSSCG00000002041	7	76176590	76176688	0.48	0.66	0.81	2.10	1.63	1.89	0.65	1.87	0.35	-1.53	1.26	7.58	0.0010	0.043	-0.14
1017072	MSKIP_ON	ENSSSCG000000011733	13	100063060	100066548	4.87	3.66	5.08	14.81	13.90	10.68	4.53	13.13	0.35	-1.53	8.83	6.87	0.0015	0.050	-0.60
1016624	TSS	ENSSSCG000000011589	13	68828618	68828870	13.33	10.13	9.45	35.77	25.99	33.63	10.97	31.80	0.34	-1.54	21.39	6.91	0.0015	0.049	-0.57
1016626	SKIP_ON	ENSSSCG000000011589	13	68877935	68877988	13.24	9.91	9.40	35.62	25.80	33.54	10.85	31.65	0.34	-1.54	21.25	6.86	0.0015	0.050	-0.60
1016625	TTS	ENSSSCG000000011589	13	68901616	68902060	13.24	9.91	9.40	35.62	25.80	33.54	10.85	31.65	0.34	-1.54	21.25	6.86	0.0015	0.050	-0.60
1047458	IR_ON	ENSSSCG000000031876	3	24908295	24908427	3.58	3.32	5.83	11.22	12.74	13.22	4.24	12.39	0.34	-1.55	8.32	8.66	0.0006	0.034	0.49
1047456	TTS	ENSSSCG000000031876	3	24876637	24877434	3.58	3.32	5.83	11.22	12.74	13.22	4.24	12.39	0.34	-1.55	8.32	8.66	0.0006	0.034	0.49
1007767	TSS	ENSSSCG000000011014	10	40055608	40057661	0.36	0.20	0.28	0.77	0.82	0.87	0.28	0.82	0.34	-1.55	0.55	8.29	0.0007	0.037	0.29

1075976	SKIP_OFF	ENSSSCG00000015537	9	122374193	122374276	1.10	0.61	0.80	2.24	2.27	2.83	0.83	2.44	0.34	-1.55	1.64	7.06	0.0013	0.048	-0.47
1004665	TSS	ENSSSCG00000005655	1	269030324	269030719	22.57	14.22	14.69	50.95	44.98	54.94	17.16	50.29	0.34	-1.55	33.73	8.88	0.0005	0.033	0.61
1004666	TTS	ENSSSCG00000005655	1	269002245	269002599	22.57	14.22	14.69	50.95	44.98	54.94	17.16	50.29	0.34	-1.55	33.73	8.88	0.0005	0.033	0.61
1058127	TSS	ENSSSCG00000002805	6	19969041	19969347	7.56	5.70	5.74	20.55	16.07	19.08	6.33	18.57	0.34	-1.55	12.45	8.92	0.0005	0.032	0.63
1058128	TTS	ENSSSCG00000002805	6	19948918	19950689	7.56	5.70	5.74	20.55	16.07	19.08	6.33	18.57	0.34	-1.55	12.45	8.92	0.0005	0.032	0.63
1017062	TSS	ENSSSCG00000011733	13	100077743	100077857	6.21	3.66	5.08	15.77	16.00	12.18	4.98	14.65	0.34	-1.56	9.82	7.13	0.0013	0.047	-0.43
1075716	TSS	ENSSSCG00000015434	9	105985376	105985968	4.03	4.70	3.94	12.36	11.35	13.53	4.22	12.41	0.34	-1.56	8.32	12.87	0.0001	0.019	2.31
1075719	XAE	ENSSSCG00000015434	9	105984989	105985090	4.03	4.70	3.94	12.36	11.35	13.53	4.22	12.41	0.34	-1.56	8.32	12.87	0.0001	0.019	2.31
1022928	TTS	ENSSSCG00000010099	14	50593561	50594491	2.02	1.36	1.29	5.33	4.02	4.37	1.56	4.58	0.34	-1.56	3.07	7.03	0.0014	0.048	-0.49
1048105	TSS	ENSSSCG000000036096	3	39263447	39264019	1.02	1.15	1.40	3.56	3.26	3.70	1.19	3.50	0.34	-1.56	2.35	13.87	0.0001	0.017	2.63
1048106	TTS	ENSSSCG000000036096	3	39261903	39262192	1.02	1.15	1.40	3.56	3.26	3.70	1.19	3.50	0.34	-1.56	2.35	13.87	0.0001	0.017	2.63
1070554	TSS	ENSSSCG000000039469	7	96999538	96999655	8.51	9.85	11.44	33.39	25.67	28.67	9.93	29.24	0.34	-1.56	19.59	8.55	0.0006	0.035	0.43
1070555	TTS	ENSSSCG000000039469	7	97041926	97047090	8.51	9.85	11.44	33.39	25.67	28.67	9.93	29.24	0.34	-1.56	19.59	8.55	0.0006	0.035	0.43
1017692	SKIP_ON	ENSSSCG00000011881	13	138736852	138736983	1.60	1.15	1.87	4.70	4.57	4.38	1.54	4.55	0.34	-1.56	3.04	13.66	0.0001	0.017	2.56
1028643	MSKIP_ON	ENSSSCG00000016263	15	131322801	131339081	2.29	1.82	2.71	8.01	6.40	5.73	2.27	6.72	0.34	-1.56	4.49	6.52	0.0019	0.054	-0.85
1028620	TTS	ENSSSCG00000016263	15	131343089	131343135	2.29	1.82	2.71	8.01	6.40	5.73	2.27	6.72	0.34	-1.56	4.49	6.52	0.0019	0.054	-0.85
1037779	TSS	ENSSSCG00000013546	2	72610577	72610691	1.05	1.64	1.79	4.67	4.01	4.59	1.49	4.42	0.34	-1.57	2.96	9.98	0.0003	0.027	1.16
1037780	TTS	ENSSSCG00000013546	2	72619546	72620207	1.05	1.64	1.79	4.67	4.01	4.59	1.49	4.42	0.34	-1.57	2.96	9.98	0.0003	0.027	1.16
1025405	IR_OFF	ENSSSCG00000025876	14	71445904	71448305	2.07	1.39	2.89	5.80	6.79	6.23	2.12	6.27	0.34	-1.57	4.19	8.44	0.0006	0.036	0.37
1001798	MSKIP_ON	ENSSSCG00000004612	1	116551464	116574940	0.82	0.96	0.51	2.57	2.30	1.94	0.76	2.27	0.34	-1.57	1.52	7.02	0.0014	0.048	-0.50
1001805	SKIP_ON	ENSSSCG00000004612	1	116574759	116574940	0.82	0.96	0.51	2.57	2.30	1.94	0.76	2.27	0.34	-1.57	1.52	7.02	0.0014	0.048	-0.50
1001807	SKIP_ON	ENSSSCG00000004612	1	116551464	116551581	0.82	0.96	0.51	2.57	2.30	1.94	0.76	2.27	0.34	-1.57	1.52	7.02	0.0014	0.048	-0.50
1058928	AE	ENSSSCG00000003152	6	54253754	54254088	0.41	0.29	0.28	0.82	1.03	1.06	0.33	0.97	0.34	-1.58	0.65	7.18	0.0012	0.046	-0.39
1058925	TSS	ENSSSCG00000003152	6	54250531	54250860	0.41	0.29	0.28	0.82	1.03	1.06	0.33	0.97	0.34	-1.58	0.65	7.18	0.0012	0.046	-0.39
1058926	TTS	ENSSSCG00000003152	6	54266697	54266893	0.41	0.29	0.28	0.82	1.03	1.06	0.33	0.97	0.34	-1.58	0.65	7.18	0.0012	0.046	-0.39
1057699	TSS	ENSSSCG00000002637	6	112234	112267	2.46	1.53	3.62	7.26	6.95	8.53	2.54	7.58	0.33	-1.58	5.06	6.92	0.0014	0.049	-0.57
1057700	TTS	ENSSSCG00000002637	6	117929	118086	2.46	1.53	3.62	7.26	6.95	8.53	2.54	7.58	0.33	-1.58	5.06	6.92	0.0014	0.049	-0.57
1020171	XSKIP_OFF	ENSSSCG000000033860	13	117146539	117146594	4.80	4.67	5.48	17.68	14.71	12.45	4.98	14.94	0.33	-1.58	9.96	6.88	0.0015	0.050	-0.59
1018955	SKIP_ON	ENSSSCG000000025408	13	25634994	25635155	1.27	1.63	1.89	5.32	4.52	4.52	1.60	4.79	0.33	-1.58	3.19	10.54	0.0002	0.025	1.41
1018957	SKIP_ON	ENSSSCG000000025408	13	25646911	25646994	1.27	1.63	1.89	5.32	4.52	4.52	1.60	4.79	0.33	-1.58	3.19	10.54	0.0002	0.025	1.41
1069540	SKIP_ON	ENSSSCG000000030626	7	53785612	53785713	0.42	0.45	0.44	1.17	1.38	1.40	0.44	1.32	0.33	-1.59	0.88	10.87	0.0002	0.024	1.55
1069537	TSS	ENSSSCG000000030626	7	53794648	53794796	0.42	0.45	0.44	1.17	1.38	1.40	0.44	1.32	0.33	-1.59	0.88	10.87	0.0002	0.024	1.55
1018456	TSS	ENSSSCG000000022618	13	18243374	18243908	4.79	3.26	3.17	11.56	9.25	13.01	3.74	11.27	0.33	-1.59	7.51	6.59	0.0018	0.053	-0.80
1018457	TTS	ENSSSCG000000022618	13	18349953	18350381	4.79	3.26	3.17	11.56	9.25	13.01	3.74	11.27	0.33	-1.59	7.51	6.59	0.0018	0.053	-0.80
1015607	SKIP_ON	ENSSSCG00000011314	13	28990147	28990271	15.61	8.39	16.17	45.45	34.50	41.36	13.39	40.44	0.33	-1.59	26.91	7.08	0.0013	0.047	-0.46
1033030	TSS	ENSSSCG00000007504	17	57783154	57783577	10.13	5.13	3.94	18.81	18.94	20.29	6.40	19.35	0.33	-1.60	12.87	7.03	0.0014	0.048	-0.49
1033031	TTS	ENSSSCG00000007504	17	57796389	57797990	10.13	5.13	3.94	18.81	18.94	20.29	6.40	19.35	0.33	-1.60	12.87	7.03	0.0014	0.048	-0.49
1043084	TTS	ENSSSCG000000039731	2	102427004	102427598	1.60	2.26	1.92	6.26	5.23	6.00	1.93	5.83	0.33	-1.60	3.88	11.31	0.0002	0.022	1.73
1034185	TSS	ENSSSCG000000040392	17	49380787	49380788	4.40	2.72	2.63	9.68	8.69	11.08	3.25	9.82	0.33	-1.60	6.53	7.72	0.0009	0.041	-0.05
1034186	TTS	ENSSSCG000000040392	17	49320614	49320680	4.40	2.72	2.63	9.68	8.69	11.08	3.25	9.82	0.33	-1.60	6.53	7.72	0.0009	0.041	-0.05
1073921	TSS	ENSSSCG00000014812	9	6785303	6785635	2.70	2.15	1.88	7.97	5.58	6.79	2.24	6.78	0.33	-1.60	4.51	6.60	0.0018	0.053	-0.79
1001955	SKIP_ON	ENSSSCG00000004651	1	122514570	122514658	3.59	3.57	3.06	10.39	9.90	10.80	3.41	10.36	0.33	-1.60	6.88	23.35	0.0000	0.009	4.59
1074212	AE	ENSSSCG00000014909	9	19646385	19650290	0.51	0.27	0.35	1.06	1.29	1.05	0.37	1.13	0.33	-1.61	0.75	7.10	0.0013	0.047	-0.44
1074204	TTS	ENSSSCG00000014909	9	19640768	19641300	0.51	0.27	0.35	1.06	1.29	1.05	0.37	1.13	0.33	-1.61	0.75	7.10	0.0013	0.047	-0.44
1068886	TSS	ENSSSCG00000002520	7	121187349	121187737	4.72	2.48	3.16	12.03	9.88	9.67	3.45	10.53	0.33	-1.61	6.99	7.49	0.0010	0.043	-0.19
1028431	TSS	ENSSSCG00000016214	15	121284920	121285147	3.86	5.32	3.00	13.98	10.22	13.12	4.06	12.44	0.33	-1.62	8.25	6.72	0.0016	0.052	-0.70
1017543	TSS	ENSSSCG00000011849	13	134101345	134101771	1.71	1.60	1.60	5.22	4.71	5.14	1.64	5.02	0.33	-1.62	3.33	21.69	0.0000	0.009	4.35
1020541	SKIP_ON	ENSSSCG000000036033	13	11035201	11035264	1.34	1.80	2.03	5.85	5.20	4.83	1.72	5.29	0.33	-1.62	3.51	10.41	0.0003	0.025	1.35
1008123	MSKIP_OFF	ENSSSCG00000011090	10	53925155	53926881	4.67	4.38	3.18	13.69	10.85	13.28	4.08	12.61	0.32	-1.63	8.34	9.06	0.0005	0.032	0.71
1050127	TTS	ENSSSCG00000006325	4	85069603	85069852	35.85	22.64	32.54	93.16	77.86	111.26	30.34	94.09	0.32	-1.63	62.22	6.49	0.0019	0.055	-0.87
1009252	TTS	ENSSSCG00000009270	11	1022644	1025613	9.36	5.90	6.56	25.66	19.22	22.90	7.27	22.59	0.32	-1.64	14.93	7.58	0.0010	0.043	-0.13
1000678	TTS	ENSSSCG00000004222	1	37043805	37045906	1.45	1.00	1.02	3.52	3.07	4.21	1.16	3.60	0.32	-1.64	2.38	7.13	0.0013	0.047	-0.42
1000673	TSS	ENSSSCG00000004222	1	37054910	37055099	1.45	1.00	1.02	3.52	3.07	4.21	1.16	3.60	0.32	-1.64	2.38	7.13	0.0013	0.047	-0.42
1017690	TSS	ENSSSCG00000011881	13	138681330	138681831	1.48	1.12	1.51	4.59	4.23	4.00	1.37	4.27	0.32	-1.64	2.82	14.10	0.0001	0.016	2.70

1017691 TTS	ENSSSCG00000011881	13	138740653	138743791	1.48	1.12	1.51	4.59	4.23	4.00	1.37	4.27	0.32	-1.64	2.82	14.10	0.0001	0.016	2.70
1013375 TTS	ENSSSCG00000021363	12	53113963	53117122	7.00	5.47	5.85	20.08	15.05	22.03	6.11	19.05	0.32	-1.64	12.58	6.46	0.0019	0.055	-0.89
1069832 SKIP_ON	ENSSSCG00000033093	7	95904553	95904606	0.38	0.78	1.04	2.13	2.13	2.59	0.73	2.28	0.32	-1.64	1.51	6.61	0.0017	0.053	-0.78
1054358 AE	ENSSSCG00000000449	5	22869184	22869861	1.22	2.13	3.43	6.69	7.34	7.15	2.26	7.06	0.32	-1.64	4.66	7.60	0.0010	0.042	-0.13
1054350 TSS	ENSSSCG00000000449	5	22868430	22868453	1.22	2.13	3.43	6.69	7.34	7.15	2.26	7.06	0.32	-1.64	4.66	7.60	0.0010	0.042	-0.13
1054355 XIR_ON	ENSSSCG00000000449	5	22869411	22869801	1.22	2.13	3.43	6.69	7.34	7.15	2.26	7.06	0.32	-1.64	4.66	7.60	0.0010	0.042	-0.13
1001083 SKIP_ON	ENSSSCG00000004371	1	72747720	72747752	0.85	1.04	1.35	3.81	3.10	3.22	1.08	3.38	0.32	-1.65	2.23	9.12	0.0004	0.031	0.74
1039952 TSS	ENSSSCG00000014348	2	141293051	141293194	3.89	3.06	3.41	10.57	9.12	12.87	3.45	10.85	0.32	-1.65	7.15	7.04	0.0013	0.048	-0.48
1044200 TSS	ENSSSCG00000007932	3	37591842	37593729	4.81	3.57	5.32	15.94	11.87	15.32	4.57	14.38	0.32	-1.65	9.47	7.61	0.0010	0.042	-0.12
1060782 TSS	ENSSSCG00000003828	6	153197599	153197756	1.72	1.82	1.85	6.39	4.46	6.08	1.79	5.64	0.32	-1.65	3.72	6.81	0.0015	0.050	-0.64
1039141 TSS	ENSSSCG00000014056	2	81372439	81372674	0.81	0.96	1.32	3.33	2.89	3.53	1.03	3.25	0.32	-1.66	2.14	9.60	0.0004	0.029	0.98
1077091 TSS	ENSSSCG00000029649	9	45861694	45861923	31.31	34.00	28.07	85.54	91.84	117.61	31.13	98.33	0.32	-1.66	64.73	7.17	0.0012	0.047	-0.40
1077092 TTS	ENSSSCG00000029649	9	45844619	45845264	31.31	34.00	28.07	85.54	91.84	117.61	31.13	98.33	0.32	-1.66	64.73	7.17	0.0012	0.047	-0.40
1040317 TSS	ENSSSCG00000021082	2	141823828	141824530	0.25	0.25	0.21	0.75	0.69	0.80	0.24	0.75	0.32	-1.66	0.49	10.03	0.0003	0.027	1.18
1040318 TTS	ENSSSCG00000021082	2	141662775	141663149	0.25	0.25	0.21	0.75	0.69	0.80	0.24	0.75	0.32	-1.66	0.49	10.03	0.0003	0.027	1.18
1014970 TSS	ENSSSCG00000039424	12	1141096	1142937	16.61	9.71	13.69	39.22	44.65	42.60	13.34	42.15	0.32	-1.66	27.75	12.00	0.0001	0.020	2.00
1066098 TSS	ENSSSCG00000001203	7	22082220	22082282	1.63	0.77	1.23	3.75	3.69	4.06	1.21	3.83	0.32	-1.66	2.52	10.12	0.0003	0.026	1.22
1066099 TTS	ENSSSCG00000001203	7	22087495	22088469	1.63	0.77	1.23	3.75	3.69	4.06	1.21	3.83	0.32	-1.66	2.52	10.12	0.0003	0.026	1.22
1070467 SKIP_OFF	ENSSSCG00000038886	7	4721548	4721658	0.56	0.73	0.76	2.48	2.20	1.82	0.68	2.17	0.32	-1.67	1.43	7.62	0.0010	0.042	-0.11
1070463 TSS	ENSSSCG00000038886	7	4750286	4750752	0.56	0.73	0.76	2.48	2.20	1.82	0.68	2.17	0.32	-1.67	1.43	7.62	0.0010	0.042	-0.11
1070470 XIR_ON	ENSSSCG00000038886	7	4746693	4746736	0.56	0.73	0.76	2.48	2.20	1.82	0.68	2.17	0.32	-1.67	1.43	7.62	0.0010	0.042	-0.11
1073503 TSS	ENSSSCG00000038080	8	120145621	120145879	9.03	8.29	9.17	26.75	27.16	30.11	8.83	28.01	0.32	-1.67	18.42	18.61	0.0000	0.010	3.81
1073504 TTS	ENSSSCG00000038080	8	120226377	120229307	9.03	8.29	9.17	26.75	27.16	30.11	8.83	28.01	0.32	-1.67	18.42	18.61	0.0000	0.010	3.81
1002726 TSS	ENSSSCG00000004919	1	162512444	162513718	1.54	0.75	1.34	3.96	3.22	4.32	1.21	3.84	0.31	-1.67	2.52	6.94	0.0014	0.049	-0.55
1048426 TSS	ENSSSCG00000038001	3	111327821	111328868	2.18	2.70	2.36	7.51	6.92	8.58	2.41	7.67	0.31	-1.67	5.04	10.91	0.0002	0.023	1.56
1059697 SKIP_ON	ENSSSCG00000003486	6	76150473	76150589	0.18	0.13	0.13	0.45	0.52	0.43	0.15	0.47	0.31	-1.67	0.31	6.55	0.0018	0.054	-0.83
1015910 SKIP_ON	ENSSSCG00000011393	13	32334870	32335061	2.93	2.02	3.46	10.42	8.44	7.92	2.80	8.92	0.31	-1.67	5.86	7.47	0.0010	0.043	-0.20
1050025 TTS	ENSSSCG00000006294	4	81911463	81911495	8.27	8.37	7.69	25.89	26.95	24.78	8.11	25.87	0.31	-1.67	16.99	28.45	0.0000	0.009	5.17
1050087 TTS	ENSSSCG00000006309	4	83583375	83586639	1.86	1.13	1.86	4.87	5.79	4.92	1.62	5.19	0.31	-1.68	3.41	9.78	0.0003	0.028	1.06
1066434 SKIP_OFF	ENSSSCG00000001476	7	25249107	25249149	0.64	1.04	0.59	2.53	2.20	2.57	0.76	2.43	0.31	-1.69	1.59	9.40	0.0004	0.030	0.88
1000001 TSS	ENSSSCG00000004008	1	578465	578588	1.05	0.53	0.96	2.81	2.83	2.55	0.85	2.73	0.31	-1.69	1.79	10.49	0.0002	0.025	1.39
1000002 TTS	ENSSSCG00000004008	1	719872	719928	1.05	0.53	0.96	2.81	2.83	2.55	0.85	2.73	0.31	-1.69	1.79	10.49	0.0002	0.025	1.39
1022432 SKIP_OFF	ENSSSCG00000009956	14	43436685	43436720	6.82	7.32	6.50	22.29	19.05	25.37	6.88	22.24	0.31	-1.69	14.56	8.87	0.0005	0.033	0.61
1077969 TTS	ENSSSCG00000038710	9	45236741	45240812	0.14	0.22	0.18	0.63	0.51	0.59	0.18	0.58	0.31	-1.69	0.38	7.39	0.0011	0.045	-0.26
1076592 TTS	ENSSSCG00000023451	9	128429092	128432727	0.98	1.19	0.74	2.67	3.63	3.15	0.97	3.15	0.31	-1.70	2.06	7.50	0.0010	0.043	-0.18
1022430 TTS	ENSSSCG00000009956	14	43438709	43438870	6.82	7.32	6.50	22.39	19.21	25.49	6.88	22.36	0.31	-1.70	14.62	9.00	0.0005	0.032	0.67
1022428 TSS	ENSSSCG00000009956	14	43304626	43305485	6.82	7.32	6.50	22.39	19.21	25.49	6.88	22.36	0.31	-1.70	14.62	9.00	0.0005	0.032	0.67
1015904 XMSKIP_ON	ENSSSCG00000011393	13	32340609	32341006	3.06	1.72	3.57	10.72	8.51	7.96	2.78	9.06	0.31	-1.70	5.92	6.61	0.0018	0.053	-0.78
1003706 TSS	ENSSSCG00000005266	1	225951643	225951810	0.55	0.43	0.56	1.67	1.96	1.37	0.51	1.67	0.31	-1.70	1.09	6.79	0.0016	0.051	-0.65
1003707 TTS	ENSSSCG00000005266	1	226109327	226111095	0.55	0.43	0.56	1.67	1.96	1.37	0.51	1.67	0.31	-1.70	1.09	6.79	0.0016	0.051	-0.65
1034993 TSS	ENSSSCG00000016690	18	43975913	43976006	0.51	0.89	0.80	1.92	2.71	2.54	0.73	2.39	0.31	-1.70	1.56	6.50	0.0019	0.054	-0.86
1044298 SKIP_ON	ENSSSCG00000007955	3	38750963	38751074	1.90	1.21	1.32	5.22	4.23	4.98	1.48	4.81	0.31	-1.70	3.14	9.61	0.0004	0.029	0.98
1009251 TSS	ENSSSCG00000009270	11	943456	943592	11.05	7.26	8.54	34.29	24.31	28.88	8.95	29.16	0.31	-1.70	19.05	6.95	0.0014	0.049	-0.55
1039443 TSS	ENSSSCG00000014161	2	101291853	101292482	1.35	1.09	1.34	4.56	4.58	3.20	1.26	4.11	0.31	-1.71	2.69	6.49	0.0019	0.055	-0.87
1039444 TTS	ENSSSCG00000014161	2	100937214	100937379	1.35	1.09	1.34	4.56	4.58	3.20	1.26	4.11	0.31	-1.71	2.69	6.49	0.0019	0.055	-0.87
1032057 MSKIP_OFF	ENSSSCG00000007094	17	26652875	26654116	2.03	0.81	1.87	5.75	5.14	4.50	1.57	5.13	0.31	-1.71	3.35	7.15	0.0013	0.047	-0.41
1032046 SKIP_OFF	ENSSSCG00000007094	17	26652875	26654116	2.03	0.81	1.87	5.75	5.14	4.50	1.57	5.13	0.31	-1.71	3.35	7.15	0.0013	0.047	-0.41
1032054 XSKIP_OFF	ENSSSCG00000007094	17	26652875	26654816	2.03	0.81	1.87	5.75	5.14	4.50	1.57	5.13	0.31	-1.71	3.35	7.15	0.0013	0.047	-0.41
1043415 XSKIP_ON	ENSSSCG00000007568	3	1867257	1867357	4.25	2.43	2.78	11.24	8.54	11.15	3.15	10.31	0.31	-1.71	6.73	7.25	0.0012	0.046	-0.35
1043417 XSKIP_ON	ENSSSCG00000007568	3	1875787	1875877	4.25	2.43	2.78	11.24	8.54	11.15	3.15	10.31	0.31	-1.71	6.73	7.25	0.0012	0.046	-0.35
1043419 XSKIP_ON	ENSSSCG00000007568	3	1884171	1884220	4.25	2.43	2.78	11.24	8.54	11.15	3.15	10.31	0.31	-1.71	6.73	7.25	0.0012	0.046	-0.35
1001081 TSS	ENSSSCG00000004371	1	72683320	72683322	0.81	1.04	1.25	3.81	3.10	3.22	1.03	3.38	0.31	-1.71	2.20	9.70	0.0003	0.028	1.02
1001957 SKIP_ON	ENSSSCG00000004651	1	122444378	122444476	7.51	5.99	5.66	18.19	20.28	24.49	6.39	20.99	0.30	-1.72	13.69	8.00	0.0008	0.039	0.12
1078719 TSS	ENSSSCG00000012295	X	43207054	43207146	2.15	1.59	2.14	6.93	5.46	6.95	1.96	6.45	0.30	-1.72	4.20	9.00	0.0005	0.032	0.68

1078720	TTS	ENSSSCG00000012295	X	43211102	43211626	2.15	1.59	2.14	6.93	5.46	6.95	1.96	6.45	0.30	-1.72	4.20	9.00	0.0005	0.032	0.68
1001952	TSS	ENSSSCG00000004651	1	122526534	122526981	7.51	5.99	5.66	18.30	20.28	24.49	6.39	21.02	0.30	-1.72	13.70	8.13	0.0007	0.038	0.20
1049633	TSS	ENSSSCG00000006161	4	57684704	57685354	0.28	0.65	0.39	1.43	1.30	1.60	0.44	1.45	0.30	-1.72	0.94	7.29	0.0012	0.045	-0.32
1049634	TTS	ENSSSCG00000006161	4	57743673	57744709	0.28	0.65	0.39	1.43	1.30	1.60	0.44	1.45	0.30	-1.72	0.94	7.29	0.0012	0.045	-0.32
1063362	TSS	ENSSSCG000000031652	6	31564986	31565042	2.64	1.92	2.45	8.52	7.97	6.57	2.33	7.69	0.30	-1.72	5.01	9.15	0.0004	0.031	0.75
1063363	TTS	ENSSSCG000000031652	6	31658230	31661190	2.64	1.92	2.45	8.52	7.97	6.57	2.33	7.69	0.30	-1.72	5.01	9.15	0.0004	0.031	0.75
1063364	SKIP_ON	ENSSSCG000000031652	6	31622310	31622390	2.64	1.92	2.45	8.52	7.97	6.57	2.33	7.69	0.30	-1.72	5.01	9.15	0.0004	0.031	0.75
1044682	TSS	ENSSSCG00000008089	3	43750687	43750795	1.05	0.59	1.33	2.79	3.25	3.73	0.99	3.26	0.30	-1.72	2.12	6.88	0.0015	0.050	-0.59
1044683	TTS	ENSSSCG00000008089	3	43771701	43771926	1.05	0.59	1.33	2.79	3.25	3.73	0.99	3.26	0.30	-1.72	2.12	6.88	0.0015	0.050	-0.59
1002144	SKIP_ON	ENSSSCG00000004704	1	127886234	127886383	1.01	1.30	1.88	5.12	4.43	4.23	1.39	4.59	0.30	-1.72	2.99	9.10	0.0004	0.032	0.73
1066398	TTS	ENSSSCG00000001459	7	25029182	25033067	0.24	0.28	0.33	1.03	0.88	0.90	0.28	0.94	0.30	-1.72	0.61	10.20	0.0003	0.026	1.26
1002151	SKIP_OFF	ENSSSCG00000004704	1	127894725	127894907	1.01	1.30	1.88	5.12	4.48	4.23	1.39	4.61	0.30	-1.73	3.00	9.24	0.0004	0.031	0.80
1002146	SKIP_ON	ENSSSCG00000004704	1	127890879	127890941	1.01	1.30	1.88	5.12	4.48	4.23	1.39	4.61	0.30	-1.73	3.00	9.24	0.0004	0.031	0.80
1004123	SKIP_ON	ENSSSCG00000005426	1	246833278	246833310	2.00	1.77	1.50	6.63	5.52	5.32	1.76	5.83	0.30	-1.73	3.79	9.94	0.0003	0.027	1.14
1004125	XSKIP_ON	ENSSSCG00000005426	1	246833278	246833310	2.00	1.77	1.50	6.63	5.52	5.32	1.76	5.83	0.30	-1.73	3.79	9.94	0.0003	0.027	1.14
1056118	TSS	ENSSSCG000000023788	5	29205704	29206656	0.37	0.48	0.70	1.61	1.63	1.90	0.52	1.71	0.30	-1.73	1.12	8.88	0.0005	0.033	0.61
1033550	TTS	ENSSSCG000000031228	17	62911874	62913752	0.36	0.21	0.21	0.85	0.88	0.86	0.26	0.86	0.30	-1.73	0.56	10.05	0.0003	0.027	1.19
1021559	TSS	ENSSSCG00000009699	14	15718522	15718821	0.54	0.40	0.63	1.42	1.90	1.89	0.52	1.74	0.30	-1.73	1.13	7.38	0.0011	0.045	-0.26
1021560	TTS	ENSSSCG00000009699	14	15752844	15755457	0.54	0.40	0.63	1.42	1.90	1.89	0.52	1.74	0.30	-1.73	1.13	7.38	0.0011	0.045	-0.26
1039473	SKIP_ON	ENSSSCG000000014170	2	103270394	103270456	1.05	1.34	1.39	3.71	4.51	4.34	1.26	4.19	0.30	-1.73	2.72	11.54	0.0002	0.022	1.82
1050889	SKIP_ON	ENSSSCG00000006620	4	97676065	97676139	1.18	0.59	1.32	3.49	2.84	3.92	1.03	3.42	0.30	-1.73	2.22	6.57	0.0018	0.054	-0.81
1021822	TTS	ENSSSCG00000009783	14	29890066	29890329	1.93	1.49	2.52	6.71	5.81	7.25	1.98	6.59	0.30	-1.74	4.28	9.48	0.0004	0.029	0.92
1021828	XIR_OFF	ENSSSCG00000009783	14	29890329	29890404	1.93	1.49	2.52	6.71	5.81	7.25	1.98	6.59	0.30	-1.74	4.28	9.48	0.0004	0.029	0.92
1050026	SKIP_ON	ENSSSCG00000006294	4	81769768	81769869	8.10	7.30	6.65	24.91	24.86	23.85	7.35	24.54	0.30	-1.74	15.94	33.36	0.0000	0.009	5.55
1050028	SKIP_ON	ENSSSCG00000006294	4	81756380	81756448	8.10	7.30	6.65	24.91	24.86	23.85	7.35	24.54	0.30	-1.74	15.94	33.36	0.0000	0.009	5.55
1064453	SKIP_ON	ENSSSCG000000035849	6	167680823	167681128	19.25	16.77	12.45	55.75	44.43	61.87	16.16	54.02	0.30	-1.74	35.09	7.34	0.0011	0.045	-0.29
1067233	SKIP_OFF	ENSSSCG00000001779	7	49010454	49010575	0.75	0.55	0.57	1.78	2.43	2.07	0.63	2.09	0.30	-1.74	1.36	7.58	0.0010	0.043	-0.13
1067235	XSKIP_OFF	ENSSSCG00000001779	7	49010454	49010575	0.75	0.55	0.57	1.78	2.43	2.07	0.63	2.09	0.30	-1.74	1.36	7.58	0.0010	0.043	-0.13
1063366	SKIP_ON	ENSSSCG000000031652	6	31569558	31569702	2.64	1.81	2.44	8.52	7.97	6.57	2.29	7.69	0.30	-1.74	4.99	9.03	0.0005	0.032	0.69
1012505	TTS	ENSSSCG000000017747	12	43362342	43367139	0.47	0.36	0.26	1.05	1.16	1.45	0.36	1.22	0.30	-1.74	0.79	6.54	0.0018	0.054	-0.83
1067425	SKIP_ON	ENSSSCG00000001837	7	54885999	54886070	3.48	1.69	2.05	7.22	7.42	9.56	2.41	8.06	0.30	-1.75	5.24	6.47	0.0019	0.055	-0.88
1060733	IR_ON	ENSSSCG00000003814	6	148940163	148942244	1.52	1.16	1.96	6.05	5.19	4.34	1.55	5.19	0.30	-1.75	3.37	7.08	0.0013	0.047	-0.46
1060645	TSS	ENSSSCG00000003784	6	138950089	138950599	0.33	0.28	0.44	0.95	1.35	1.20	0.35	1.17	0.30	-1.75	0.76	6.59	0.0018	0.053	-0.80
1066395	TSS	ENSSSCG00000001459	7	25037763	25037892	1.86	1.21	1.38	5.47	4.73	4.78	1.48	4.99	0.30	-1.75	3.24	11.97	0.0001	0.020	1.99
1029785	TSS	ENSSSCG000000034567	15	68107090	68107339	0.86	1.42	1.02	3.14	3.64	4.32	1.10	3.70	0.30	-1.75	2.40	7.23	0.0012	0.046	-0.36
1029786	TTS	ENSSSCG000000034567	15	68057757	68059443	0.86	1.42	1.02	3.14	3.64	4.32	1.10	3.70	0.30	-1.75	2.40	7.23	0.0012	0.046	-0.36
1000420	TTS	ENSSSCG00000004149	1	25985796	25986510	2.67	3.31	5.17	12.32	10.97	14.30	3.72	12.53	0.30	-1.75	8.12	7.65	0.0009	0.042	-0.09
1028292	AE	ENSSSCG000000016164	15	115572770	115573036	0.79	0.53	0.79	2.80	2.40	1.94	0.71	2.38	0.30	-1.75	1.54	6.72	0.0016	0.052	-0.71
1063287	TSS	ENSSSCG000000031300	6	163066161	163066663	0.38	0.27	0.24	1.01	1.02	0.98	0.30	1.00	0.30	-1.75	0.65	12.79	0.0001	0.019	2.28
1064254	TSS	ENSSSCG000000035104	6	27489130	27489238	0.56	0.41	0.34	1.43	1.42	1.59	0.44	1.48	0.30	-1.76	0.96	11.63	0.0002	0.021	1.86
1064255	TTS	ENSSSCG000000035104	6	27451465	27451652	0.56	0.41	0.34	1.43	1.42	1.59	0.44	1.48	0.30	-1.76	0.96	11.63	0.0002	0.021	1.86
1001953	TTS	ENSSSCG00000004651	1	122370623	122374061	7.15	5.99	5.45	18.30	20.28	24.24	6.20	20.94	0.30	-1.76	13.57	8.61	0.0006	0.035	0.47
1027848	TSS	ENSSSCG000000016052	15	95015284	95015635	1.69	0.59	1.02	4.18	3.70	3.30	1.10	3.73	0.30	-1.76	2.41	6.78	0.0016	0.051	-0.66
1050024	TSS	ENSSSCG00000006294	4	81640178	81640307	7.37	6.75	5.98	22.67	23.36	21.92	6.70	22.65	0.30	-1.76	14.67	29.16	0.0000	0.009	5.23
1060785	TTS	ENSSSCG00000003828	6	152754730	152755149	2.81	3.12	2.32	10.18	7.57	10.27	2.75	9.34	0.29	-1.76	6.05	7.65	0.0009	0.042	-0.09
1043412	TTS	ENSSSCG00000007568	3	1861492	1864621	3.20	2.43	2.78	11.08	7.70	9.92	2.80	9.57	0.29	-1.77	6.18	7.06	0.0013	0.047	-0.47
1039447	SKIP_ON	ENSSSCG000000014161	2	101194422	101194583	1.17	1.09	1.34	4.56	4.58	3.20	1.20	4.11	0.29	-1.78	2.66	6.65	0.0017	0.053	-0.75
1030340	TSS	ENSSSCG000000016782	16	3969915	3970084	3.82	3.73	5.73	16.09	13.98	15.42	4.42	15.16	0.29	-1.78	9.79	12.65	0.0001	0.019	2.23
1033548	TSS	ENSSSCG000000031228	17	62905780	62906298	0.33	0.21	0.21	0.85	0.88	0.86	0.25	0.86	0.29	-1.78	0.56	11.42	0.0002	0.022	1.78
1020056	TSS	ENSSSCG000000033000	13	68190712	68190982	1.55	2.31	1.80	7.42	6.07	6.02	1.89	6.51	0.29	-1.79	4.20	9.59	0.0004	0.029	0.97
1020058	TTS	ENSSSCG000000033000	13	68179806	68184769	1.55	2.31	1.80	7.42	6.07	6.02	1.89	6.51	0.29	-1.79	4.20	9.59	0.0004	0.029	0.97
1070110	TSS	ENSSSCG000000035596	7	23852615	23852971	1.11	0.67	0.89	3.09	3.27	2.87	0.89	3.08	0.29	-1.79	1.98	13.19	0.0001	0.018	2.42
1070111	TTS	ENSSSCG000000035596	7	23872509	23872620	1.11	0.67	0.89	3.09	3.27	2.87	0.89	3.08	0.29	-1.79	1.98	13.19	0.0001	0.018	2.42
1064443	TSS	ENSSSCG000000035849	6	167743530	167743708	19.25	16.77	12.81	60.54	45.26	62.77	16.28	56.19	0.29	-1.79	36.23	7.29	0.0012	0.045	-0.32

Table S5 The most significantly upregulated and downregulated AS events

data...1.	event_type	gene_id	chrom	event_start	event_end	XL13	XL17	XL18	XS12	XS15	XS16	XL AveFPKM	XS AveFPKM	FC	logFC	AveExpr	t	P.Value	adj.P.Val	B
1037279	SKIP_OFF	ENSSSCG00000013382	2	42257144	42257614	0.00	0.00	0.00	0.47	0.78	0.59	0.00	0.61	0.00	-22.93	0.31	6.57	0.002	0.05	-0.81
1062231	TTS	ENSSSCG00000025652	6	18075478	18075965	0.00	0.00	0.00	4.78	3.45	5.89	0.00	4.71	0.00	-22.12	2.35	7.09	0.001	0.05	-0.45
1062235	XIR_OFF	ENSSSCG00000025652	6	18075965	18076256	0.00	0.00	0.00	4.78	3.45	5.89	0.00	4.71	0.00	-22.12	2.35	7.09	0.001	0.05	-0.45
1044201	TSS	ENSSSCG00000007932	3	37594724	37594788	0.00	0.00	0.00	11.42	6.45	9.66	0.00	9.18	0.00	-20.06	4.59	6.70	0.002	0.05	-0.72
1031206	SKIP_OFF	ENSSSCG00000021527	16	62909457	62909644	0.00	0.00	0.00	0.86	0.78	1.02	0.00	0.89	0.00	-18.57	0.44	11.42	0.000	0.02	1.77
1069930	TSS	ENSSSCG00000033721	7	76489466	76489520	0.00	0.00	0.00	5.13	4.04	5.46	0.00	4.87	0.00	-17.76	2.44	12.01	0.000	0.02	2.00
1037695	SKIP_OFF	ENSSSCG00000013506	2	74469449	74469532	0.00	0.00	0.00	0.42	0.52	0.63	0.00	0.52	0.00	-17.63	0.26	7.52	0.001	0.04	-0.17
1037692	SKIP_ON	ENSSSCG00000013506	2	74465870	74465947	0.00	0.00	0.00	0.42	0.52	0.63	0.00	0.52	0.00	-17.47	0.26	7.52	0.001	0.04	-0.17
1052716	TSS	ENSSSCG00000034242	4	60637049	60637238	0.00	0.00	0.00	1.74	1.16	1.43	0.00	1.44	0.00	-17.45	0.72	8.87	0.001	0.03	0.61
1074745	TSS	ENSSSCG00000015089	9	45535018	45535259	0.00	0.00	0.00	1.38	0.90	1.38	0.00	1.22	0.00	-16.61	0.61	7.80	0.001	0.04	0.00
1074753	XSKIP_ON	ENSSSCG00000015089	9	45534751	45534780	0.00	0.00	0.00	1.38	0.90	1.38	0.00	1.22	0.00	-16.61	0.61	7.80	0.001	0.04	0.00
1065341	TSS	ENSSSCG00000039678	6	168651154	168651178	0.00	0.00	0.00	0.69	1.01	0.66	0.00	0.79	0.00	-16.39	0.39	7.09	0.001	0.05	-0.45
1072030	TSS	ENSSSCG00000009169	8	118605293	118605600	0.00	0.00	0.00	0.97	0.77	0.64	0.00	0.79	0.00	-15.52	0.40	8.08	0.001	0.04	0.17
1071119	SKIP_OFF	ENSSSCG00000008838	8	40250019	40250153	0.00	0.00	0.00	1.77	1.00	1.65	0.00	1.47	0.00	-14.71	0.74	6.49	0.002	0.05	-0.87
1071114	TSS	ENSSSCG00000008838	8	40369803	40369921	0.00	0.00	0.00	1.77	1.00	1.65	0.00	1.47	0.00	-14.71	0.74	6.49	0.002	0.05	-0.87
1056121	SKIP_ON	ENSSSCG00000023788	5	29291627	29291686	0.00	0.00	0.00	0.81	0.70	0.90	0.00	0.80	0.00	-14.43	0.40	12.32	0.000	0.02	2.11
1075337	TSS	ENSSSCG00000015313	9	72185595	72185727	0.00	0.00	0.00	0.75	0.81	0.61	0.00	0.72	0.00	-14.01	0.36	10.70	0.000	0.02	1.48
1075343	XSKIP_ON	ENSSSCG00000015313	9	72184300	72184518	0.00	0.00	0.00	0.75	0.81	0.61	0.00	0.72	0.00	-14.01	0.36	10.70	0.000	0.02	1.48
1037352	SKIP_OFF	ENSSSCG00000013397	2	45928980	45929072	0.00	0.00	0.00	0.38	0.39	0.32	0.00	0.36	0.00	-12.93	0.18	8.47	0.001	0.04	0.39
1072238	MSKIP_OFF	ENSSSCG00000009237	8	135107334	135108713	0.00	0.00	0.00	0.25	0.29	0.25	0.00	0.27	0.00	-12.67	0.13	6.60	0.002	0.05	-0.79
1072235	SKIP_ON	ENSSSCG00000009237	8	135091354	135091709	0.00	0.00	0.00	0.25	0.29	0.25	0.00	0.27	0.00	-12.67	0.13	6.60	0.002	0.05	-0.79
1051835	MSKIP_OFF	ENSSSCG00000006950	4	130780652	130796097	0.01	0.00	0.00	10.84	7.64	13.67	0.00	10.72	0.00	-12.51	5.36	6.53	0.002	0.05	-0.84
1051830	TTS	ENSSSCG00000006950	4	130775388	130775402	0.01	0.00	0.00	10.84	7.64	13.67	0.00	10.72	0.00	-12.51	5.36	6.53	0.002	0.05	-0.84
1045404	TSS	ENSSSCG00000008368	3	78032364	78032476	0.00	0.00	0.00	0.45	0.45	0.46	0.00	0.46	0.00	-12.19	0.23	11.83	0.000	0.02	1.93
1004079	TSS	ENSSSCG00000005398	1	243039252	243039581	0.00	0.00	0.00	3.97	4.94	5.25	0.00	4.72	0.00	-12.08	2.36	13.01	0.000	0.02	2.35
1055931	AE	ENSSSCG00000000982	5	606408	606543	0.00	0.00	0.00	1.05	1.03	0.97	0.00	1.01	0.00	-11.96	0.51	22.53	0.000	0.01	4.48
1055921	TSS	ENSSSCG00000000982	5	599863	599923	0.00	0.00	0.00	1.05	1.03	0.97	0.00	1.01	0.00	-11.96	0.51	22.53	0.000	0.01	4.48
1055928	XIR_ON	ENSSSCG00000000982	5	629518	629546	0.00	0.00	0.00	1.05	1.03	0.97	0.00	1.01	0.00	-11.96	0.51	22.53	0.000	0.01	4.48
1055926	XSKIP_ON	ENSSSCG00000000982	5	632575	632605	0.00	0.00	0.00	1.05	1.03	0.97	0.00	1.01	0.00	-11.96	0.51	22.53	0.000	0.01	4.48
1042711	TSS	ENSSSCG00000037835	2	57310171	57311418	0.00	0.00	0.00	0.90	0.64	0.83	0.00	0.79	0.00	-11.55	0.39	9.48	0.000	0.03	0.92

1069242	SKIP_ON	ENSSSCG00000025788	7	40906172	40906181	0.00	0.00	0.00	0.45	0.44	0.40	0.00	0.43	0.00	-11.52	0.22	10.38	0.000	0.03	1.34
1011794	XSKIP_ON	ENSSSCG00000017444	12	21129339	21129364	0.00	0.00	0.00	0.62	0.73	0.84	0.00	0.73	0.00	-9.31	0.36	10.17	0.000	0.03	1.24
1023980	TSS	ENSSSCG00000010433	14	99216806	99216885	0.00	0.00	0.00	1.41	1.16	1.83	0.00	1.47	0.00	-8.95	0.74	7.75	0.001	0.04	-0.03
1046634	TTS	ENSSSCG00000023273	3	132730306	132730998	0.05	0.00	0.00	5.21	3.96	5.89	0.02	5.02	0.00	-8.25	2.52	9.40	0.000	0.03	0.88
1023649	TSS	ENSSSCG00000010302	14	76393149	76393174	0.01	0.01	0.01	2.68	2.24	2.53	0.01	2.48	0.00	-8.03	1.25	19.18	0.000	0.01	3.92
1061055	SKIP_OFF	ENSSSCG00000003908	6	165225268	165225351	0.11	0.12	0.00	16.83	13.30	16.59	0.08	15.57	0.00	-7.69	7.82	14.43	0.000	0.02	2.80
1061052	TSS	ENSSSCG00000003908	6	165229255	165229516	0.11	0.12	0.00	16.83	13.30	16.59	0.08	15.57	0.00	-7.69	7.82	14.43	0.000	0.02	2.80
1009660	SKIP_ON	ENSSSCG00000009428	11	24320403	24320462	0.06	0.36	0.34	28.09	37.33	27.05	0.25	30.82	0.01	-6.93	15.54	9.94	0.000	0.03	1.14
1024132	SKIP_ON	ENSSSCG00000010478	14	105021390	105021518	0.20	0.00	0.00	6.93	4.33	5.97	0.07	5.75	0.01	-6.41	2.91	7.90	0.001	0.04	0.06
1052719	SKIP_ON	ENSSSCG000000034242	4	60521119	60521274	0.02	0.00	0.04	1.86	1.24	1.71	0.02	1.61	0.01	-6.39	0.81	8.86	0.001	0.03	0.60
1055923	TSS	ENSSSCG00000000982	5	613477	613850	0.04	0.00	0.00	0.93	1.11	1.22	0.01	1.09	0.01	-6.26	0.55	12.22	0.000	0.02	2.08
1027743	TSS	ENSSSCG00000016030	15	91863966	91864130	0.23	0.00	0.07	5.40	6.73	6.71	0.10	6.28	0.02	-5.96	3.19	14.70	0.000	0.02	2.88
1027744	TTS	ENSSSCG00000016030	15	91841945	91842751	0.23	0.00	0.07	5.40	6.73	6.71	0.10	6.28	0.02	-5.96	3.19	14.70	0.000	0.02	2.88
1031202	TTS	ENSSSCG00000021527	16	62917712	62918473	0.00	0.00	0.04	0.82	0.51	0.82	0.01	0.72	0.02	-5.60	0.37	6.62	0.002	0.05	-0.78
1031209	XIR_ON	ENSSSCG00000021527	16	62915281	62916956	0.00	0.00	0.04	0.82	0.51	0.82	0.01	0.72	0.02	-5.60	0.37	6.62	0.002	0.05	-0.78
1068439	TSS	ENSSSCG00000002380	7	98265232	98265373	0.34	0.06	0.03	6.75	5.85	8.37	0.15	6.99	0.02	-5.59	3.57	9.78	0.000	0.03	1.06
1060754	TSS	ENSSSCG000000003819	6	149845338	149845854	0.22	0.03	0.00	5.00	3.50	3.12	0.08	3.87	0.02	-5.57	1.98	6.94	0.001	0.05	-0.55
1060755	TTS	ENSSSCG000000003819	6	149836418	149836641	0.22	0.03	0.00	5.00	3.50	3.12	0.08	3.87	0.02	-5.57	1.98	6.94	0.001	0.05	-0.55
1061053	TTS	ENSSSCG00000003908	6	165224620	165225107	14.06	0.82	1.05	267.71	179.95	308.57	5.31	252.08	0.02	-5.57	128.69	6.86	0.001	0.05	-0.60
1002948	TSS	ENSSSCG000000004983	1	169777107	169777927	0.10	0.06	0.00	3.04	1.84	2.50	0.05	2.46	0.02	-5.57	1.26	7.29	0.001	0.05	-0.32
1031201	TSS	ENSSSCG00000021527	16	62786414	62787095	0.00	0.06	0.05	1.68	1.34	1.87	0.04	1.63	0.02	-5.51	0.83	10.52	0.000	0.02	1.40
1061050	TSS	ENSSSCG00000003908	6	165229389	165229512	13.70	0.70	1.05	246.37	164.19	289.80	5.15	233.45	0.02	-5.50	119.30	6.54	0.002	0.05	-0.83
1061054	SKIP_ON	ENSSSCG00000003908	6	165225268	165225351	13.95	0.70	1.05	250.88	166.65	291.99	5.23	236.51	0.02	-5.50	120.87	6.62	0.002	0.05	-0.78
1032964	SKIP_OFF	ENSSSCG000000007485	17	54951144	54951185	0.11	0.00	0.00	1.94	1.21	1.73	0.04	1.63	0.02	-5.49	0.83	7.59	0.001	0.04	-0.13
1032971	SKIP_ON	ENSSSCG000000007485	17	54942992	54943162	0.11	0.00	0.00	1.94	1.21	1.73	0.04	1.63	0.02	-5.49	0.83	7.59	0.001	0.04	-0.13
1004397	TSS	ENSSSCG000000005529	1	262258298	262258395	1.22	0.05	0.03	17.12	23.30	17.68	0.43	19.37	0.02	-5.48	9.90	10.00	0.000	0.03	1.16
1080598	TSS	ENSSSCG000000030800	X	32018003	32018231	0.24	0.00	0.05	4.70	4.64	3.41	0.10	4.25	0.02	-5.44	2.18	10.31	0.000	0.03	1.31
1080599	TTS	ENSSSCG000000030800	X	32067493	32067687	0.24	0.00	0.05	4.70	4.64	3.41	0.10	4.25	0.02	-5.44	2.18	10.31	0.000	0.03	1.31
1015890	TSS	ENSSSCG00000011391	13	32329090	32329138	1.47	0.03	0.06	17.95	22.56	27.38	0.52	22.63	0.02	-5.44	11.58	8.50	0.001	0.04	0.40
1015894	XSKIP_OFF	ENSSSCG00000011391	13	32322687	32322717	1.47	0.03	0.06	17.95	22.56	27.38	0.52	22.63	0.02	-5.44	11.58	8.50	0.001	0.04	0.40
1073936	TSS	ENSSSCG00000014818	9	7326351	7326438	0.00	0.14	0.12	4.59	2.72	4.15	0.09	3.82	0.02	-5.41	1.96	6.96	0.001	0.05	-0.54
1058161	TSS	ENSSSCG00000002817	6	19603448	19603471	1.44	0.11	0.18	24.21	22.04	26.64	0.58	24.30	0.02	-5.39	12.44	18.01	0.000	0.01	3.69
1058162	TTS	ENSSSCG00000002817	6	19628861	19629173	1.44	0.11	0.18	24.21	22.04	26.64	0.58	24.30	0.02	-5.39	12.44	18.01	0.000	0.01	3.69
1008077	TTS	ENSSSCG00000011078	10	51955000	51960197	1.39	0.07	0.20	17.32	25.28	27.29	0.56	23.30	0.02	-5.39	11.93	7.87	0.001	0.04	0.04
1028387	SKIP_OFF	ENSSSCG00000016203	15	121030260	121030304	0.18	0.00	0.02	3.35	2.92	2.13	0.07	2.80	0.02	-5.37	1.43	7.98	0.001	0.04	0.10

1032352	SKIP_OFF	ENSSSCG00000007236	17	35585086	35585154	0.32	0.00	0.07	5.41	4.10	6.76	0.13	5.42	0.02	-5.37	2.78	7.26	0.001	0.05	-0.34
1069809	TSS	ENSSSCG000000032691	7	41546878	41547100	1.31	0.15	0.18	18.13	20.05	29.44	0.55	22.54	0.02	-5.37	11.54	6.65	0.002	0.05	-0.75
1069810	TTS	ENSSSCG000000032691	7	41558356	41562366	1.31	0.15	0.18	18.13	20.05	29.44	0.55	22.54	0.02	-5.37	11.54	6.65	0.002	0.05	-0.75
1008076	TSS	ENSSSCG00000011078	10	52049317	52050127	1.39	0.07	0.20	16.99	24.93	26.90	0.56	22.94	0.02	-5.37	11.75	7.78	0.001	0.04	-0.01
1047690	SKIP_ON	ENSSSCG000000033394	3	56061027	56061125	0.26	0.00	0.02	4.03	3.30	4.44	0.10	3.93	0.02	-5.37	2.01	11.73	0.000	0.02	1.90
1060768	MSKIP_ON	ENSSSCG000000003823	6	152205755	152212627	1.55	0.05	0.06	20.61	19.53	26.66	0.55	22.27	0.02	-5.34	11.41	10.14	0.000	0.03	1.23
1018502	TSS	ENSSSCG000000023084	13	66664365	66664474	0.31	0.00	0.00	4.96	3.60	3.86	0.10	4.14	0.02	-5.33	2.12	9.96	0.000	0.03	1.15
1018507	XMSKIP_ON	ENSSSCG000000023084	13	66534662	66538763	0.31	0.00	0.00	4.96	3.60	3.86	0.10	4.14	0.02	-5.33	2.12	9.96	0.000	0.03	1.15
1018522	XSKIP_ON	ENSSSCG000000023084	13	66534662	66534717	0.31	0.00	0.00	4.96	3.60	3.86	0.10	4.14	0.02	-5.33	2.12	9.96	0.000	0.03	1.15
1066808	TSS	ENSSSCG000000001594	7	35018707	35018856	0.13	0.03	0.03	2.70	2.25	3.14	0.07	2.70	0.02	-5.32	1.38	10.70	0.000	0.02	1.48
1066809	TTS	ENSSSCG000000001594	7	34918893	34919090	0.13	0.03	0.03	2.70	2.25	3.14	0.07	2.70	0.02	-5.32	1.38	10.70	0.000	0.02	1.48
1059585	TTS	ENSSSCG000000003455	6	74629758	74629778	0.00	0.13	0.16	3.68	3.38	4.91	0.10	3.99	0.03	-5.32	2.05	8.75	0.001	0.03	0.54
1043107	SKIP_ON	ENSSSCG0000000039815	2	78003931	78003993	0.04	0.00	0.06	1.15	1.20	1.55	0.03	1.30	0.03	-5.31	0.67	10.13	0.000	0.03	1.23
1043104	TSS	ENSSSCG0000000039815	2	77977459	77977954	0.04	0.00	0.06	1.15	1.20	1.55	0.03	1.30	0.03	-5.31	0.67	10.13	0.000	0.03	1.23
1001220	TSS	ENSSSCG000000004434	1	81713433	81714250	0.27	0.01	0.02	4.70	2.70	4.26	0.10	3.89	0.03	-5.30	1.99	6.56	0.002	0.05	-0.82
1001221	TTS	ENSSSCG000000004434	1	81603273	81603701	0.27	0.01	0.02	4.70	2.70	4.26	0.10	3.89	0.03	-5.30	1.99	6.56	0.002	0.05	-0.82
1021955	TSS	ENSSSCG000000009809	14	30991763	30992099	1.06	0.10	0.05	13.32	14.33	19.93	0.40	15.86	0.03	-5.30	8.13	7.89	0.001	0.04	0.05
1021956	TTS	ENSSSCG000000009809	14	31006309	31006620	1.06	0.10	0.05	13.32	14.33	19.93	0.40	15.86	0.03	-5.30	8.13	7.89	0.001	0.04	0.05
1067076	TTS	ENSSSCG000000001705	7	39281997	39282593	0.59	0.01	0.00	7.67	6.29	9.40	0.20	7.78	0.03	-5.29	3.99	8.74	0.001	0.03	0.54
1012897	TSS	ENSSSCG000000017884	12	50549637	50549758	2.68	0.16	0.28	41.60	34.24	44.99	1.04	40.28	0.03	-5.28	20.66	12.72	0.000	0.02	2.26
1060766	TSS	ENSSSCG000000003823	6	152175539	152175645	1.55	0.05	0.13	20.61	19.53	26.66	0.57	22.27	0.03	-5.28	11.42	10.14	0.000	0.03	1.23
1060767	TTS	ENSSSCG000000003823	6	152255060	152255220	1.55	0.05	0.13	20.61	19.53	26.66	0.57	22.27	0.03	-5.28	11.42	10.14	0.000	0.03	1.23
1071357	TSS	ENSSSCG000000008943	8	67872872	67872966	0.13	0.00	0.00	1.75	1.52	1.89	0.04	1.72	0.03	-5.26	0.88	14.40	0.000	0.02	2.79
1052721	SKIP_ON	ENSSSCG0000000034242	4	60526376	60526470	0.07	0.01	0.04	1.86	1.34	1.72	0.04	1.64	0.03	-5.25	0.84	10.48	0.000	0.02	1.38
1012898	TTS	ENSSSCG000000017884	12	50524200	50527330	3.18	0.19	0.33	48.05	39.11	51.60	1.23	46.25	0.03	-5.23	23.74	12.45	0.000	0.02	2.16
1020124	TSS	ENSSSCG0000000033462	13	146480431	146480525	1.55	0.22	0.46	25.41	36.21	22.11	0.74	27.91	0.03	-5.23	14.33	6.75	0.002	0.05	-0.68
1020126	TTS	ENSSSCG0000000033462	13	146488120	146488338	1.55	0.22	0.46	25.41	36.21	22.11	0.74	27.91	0.03	-5.23	14.33	6.75	0.002	0.05	-0.68
1055933	TSS	ENSSSCG000000000983	5	646947	647067	0.21	0.03	0.06	2.87	4.44	3.68	0.10	3.66	0.03	-5.23	1.88	8.25	0.001	0.04	0.27
1055934	TTS	ENSSSCG000000000983	5	659313	662557	0.21	0.03	0.06	2.87	4.44	3.68	0.10	3.66	0.03	-5.23	1.88	8.25	0.001	0.04	0.27
1072833	TSS	ENSSSCG0000000028471	8	27998300	27998796	1.78	0.11	0.23	31.79	22.86	24.39	0.71	26.35	0.03	-5.22	13.53	9.70	0.000	0.03	1.03
1072834	TTS	ENSSSCG0000000028471	8	28071843	28072201	1.78	0.11	0.23	31.79	22.86	24.39	0.71	26.35	0.03	-5.22	13.53	9.70	0.000	0.03	1.03
1056947	TSS	ENSSSCG0000000033574	5	87089867	87090254	0.14	0.00	0.00	1.86	1.83	1.70	0.05	1.80	0.03	-5.21	0.92	23.26	0.000	0.01	4.58
1056950	XAE	ENSSSCG0000000033574	5	87058804	87058889	0.14	0.00	0.00	1.86	1.83	1.70	0.05	1.80	0.03	-5.21	0.92	23.26	0.000	0.01	4.58
1047684	TSS	ENSSSCG0000000033394	3	56171560	56171826	0.31	0.02	0.02	4.42	4.11	4.80	0.12	4.45	0.03	-5.20	2.28	20.37	0.000	0.01	4.14
1047685	TTS	ENSSSCG0000000033394	3	55950591	55951982	0.31	0.02	0.02	4.42	4.11	4.80	0.12	4.45	0.03	-5.20	2.28	20.37	0.000	0.01	4.14

1026732	SKIP_ON	ENSSSCG00000015696	15	16916357	16916552	0.70	0.00	0.00	10.47	7.47	7.77	0.23	8.57	0.03	-5.20	4.40	9.03	0.000	0.03	0.69
1011903	TTS	ENSSSCG00000017495	12	22573320	22575118	0.33	0.06	0.10	7.30	4.24	6.32	0.17	5.95	0.03	-5.17	3.06	6.77	0.002	0.05	-0.67
1008021	SKIP_OFF	ENSSSCG00000011069	10	39423888	39423986	0.97	0.00	0.13	15.58	11.85	11.95	0.37	13.12	0.03	-5.16	6.75	10.71	0.000	0.02	1.48
1071282	TSS	ENSSSCG00000008908	8	54945992	54946000	0.42	0.00	0.00	4.25	4.79	6.05	0.14	5.03	0.03	-5.16	2.59	9.39	0.000	0.03	0.87
1071283	TTS	ENSSSCG00000008908	8	54917973	54918127	0.42	0.00	0.00	4.25	4.79	6.05	0.14	5.03	0.03	-5.16	2.59	9.39	0.000	0.03	0.87
1071107	TSS	ENSSSCG00000008834	8	39162404	39163361	5.66	0.15	0.16	76.01	53.82	83.40	1.99	71.08	0.03	-5.16	36.54	8.09	0.001	0.04	0.17
1018509	MSKIP_ON	ENSSSCG00000023084	13	66583381	66589681	0.64	0.02	0.00	7.55	6.83	9.00	0.22	7.79	0.03	-5.15	4.01	11.93	0.000	0.02	1.97
1018516	MSKIP_ON	ENSSSCG00000023084	13	66588449	66589681	0.64	0.02	0.00	7.55	6.83	9.00	0.22	7.79	0.03	-5.15	4.01	11.93	0.000	0.02	1.97
1018520	SKIP_ON	ENSSSCG00000023084	13	66588449	66588508	0.64	0.02	0.00	7.55	6.83	9.00	0.22	7.79	0.03	-5.15	4.01	11.93	0.000	0.02	1.97
1047687	SKIP_OFF	ENSSSCG00000033394	3	56169058	56169214	0.27	0.02	0.00	3.28	3.73	3.39	0.10	3.47	0.03	-5.14	1.78	21.72	0.000	0.01	4.36
1047692	SKIP_ON	ENSSSCG00000033394	3	56166194	56166421	0.27	0.02	0.00	3.28	3.73	3.39	0.10	3.47	0.03	-5.14	1.78	21.72	0.000	0.01	4.36
1000411	TSS	ENSSSCG00000004147	1	25644193	25645094	1.27	0.09	0.12	18.35	16.93	16.46	0.49	17.25	0.03	-5.13	8.87	25.78	0.000	0.01	4.89
1000412	TTS	ENSSSCG00000004147	1	25566903	25567630	1.27	0.09	0.12	18.35	16.93	16.46	0.49	17.25	0.03	-5.13	8.87	25.78	0.000	0.01	4.89
1023808	IR_ON	ENSSSCG00000010339	14	82202414	82202538	0.00	0.00	0.04	0.43	0.49	0.33	0.01	0.42	0.03	-5.12	0.21	6.76	0.002	0.05	-0.67
1065726	TSS	ENSSSCG00000040973	6	14233928	14233941	1.85	0.25	0.21	26.08	25.32	28.61	0.77	26.67	0.03	-5.11	13.72	24.32	0.000	0.01	4.72
1065727	TTS	ENSSSCG00000040973	6	13895493	13895975	1.85	0.25	0.21	26.08	25.32	28.61	0.77	26.67	0.03	-5.11	13.72	24.32	0.000	0.01	4.72
1024130	TSS	ENSSSCG00000010478	14	105011408	105012556	0.85	0.03	0.00	12.00	7.38	11.05	0.29	10.14	0.03	-5.11	5.22	7.27	0.001	0.05	-0.33
1024131	TTS	ENSSSCG00000010478	14	105033136	105033525	0.85	0.03	0.00	12.00	7.38	11.05	0.29	10.14	0.03	-5.11	5.22	7.27	0.001	0.05	-0.33
1018229	TSS	ENSSSCG00000020990	13	39318872	39319018	0.79	0.03	0.11	11.27	12.59	8.34	0.31	10.74	0.03	-5.10	5.52	8.66	0.001	0.03	0.50
1018230	TTS	ENSSSCG00000020990	13	39148454	39148644	0.79	0.03	0.11	11.27	12.59	8.34	0.31	10.74	0.03	-5.10	5.52	8.66	0.001	0.03	0.50
1032349	TSS	ENSSSCG00000007236	17	35558301	35558596	0.91	0.03	0.12	13.24	9.15	13.57	0.35	11.99	0.03	-5.09	6.17	8.53	0.001	0.04	0.42
1032350	TTS	ENSSSCG00000007236	17	35607702	35607778	0.91	0.03	0.12	13.24	9.15	13.57	0.35	11.99	0.03	-5.09	6.17	8.53	0.001	0.04	0.42
1026730	TSS	ENSSSCG00000015696	15	16911090	16911378	0.70	0.01	0.05	10.47	7.47	7.77	0.25	8.57	0.03	-5.09	4.41	9.03	0.000	0.03	0.69
1026731	TTS	ENSSSCG00000015696	15	16970116	16970182	0.70	0.01	0.05	10.47	7.47	7.77	0.25	8.57	0.03	-5.09	4.41	9.03	0.000	0.03	0.69
1068842	TSS	ENSSSCG00000002504	7	117609840	117609972	3.62	0.31	0.78	54.86	46.89	56.34	1.57	52.69	0.03	-5.07	27.13	17.47	0.000	0.01	3.57
1068843	TTS	ENSSSCG00000002504	7	117666773	117667455	3.62	0.31	0.78	54.86	46.89	56.34	1.57	52.69	0.03	-5.07	27.13	17.47	0.000	0.01	3.57
1028177	TTS	ENSSSCG00000016133	15	109989062	109992312	0.10	0.03	0.01	1.92	1.55	1.33	0.05	1.60	0.03	-5.07	0.82	9.30	0.000	0.03	0.83
1000305	TSS	ENSSSCG00000004114	1	19029280	19029353	0.54	0.05	0.19	9.74	9.17	6.99	0.26	8.63	0.03	-5.06	4.45	10.47	0.000	0.03	1.38
1022929	TSS	ENSSSCG00000010100	14	50622937	50623069	0.36	0.10	0.03	5.93	4.70	5.42	0.16	5.35	0.03	-5.06	2.76	14.88	0.000	0.01	2.93
1022930	TTS	ENSSSCG00000010100	14	50603323	50603460	0.36	0.10	0.03	5.93	4.70	5.42	0.16	5.35	0.03	-5.06	2.76	14.88	0.000	0.01	2.93
1028390	IR_ON	ENSSSCG00000016203	15	121035540	121035685	0.34	0.00	0.02	5.11	3.50	3.16	0.12	3.93	0.03	-5.05	2.02	6.61	0.002	0.05	-0.78
1028384	TTS	ENSSSCG00000016203	15	121027040	121028735	0.34	0.00	0.02	5.11	3.50	3.16	0.12	3.93	0.03	-5.05	2.02	6.61	0.002	0.05	-0.78
1028388	XIR_ON	ENSSSCG00000016203	15	121035540	121035685	0.34	0.00	0.02	5.11	3.50	3.16	0.12	3.93	0.03	-5.05	2.02	6.61	0.002	0.05	-0.78
1011539	TSS	ENSSSCG00000017344	12	18471963	18472114	0.23	0.06	0.06	3.17	3.86	4.42	0.12	3.82	0.03	-5.02	1.97	10.70	0.000	0.02	1.48
1070596	TSS	ENSSSCG00000039903	7	39366987	39367116	0.08	0.24	0.42	9.54	6.22	8.35	0.25	8.04	0.03	-5.02	4.14	8.49	0.001	0.04	0.40

1070597	TTS	ENSSSCG00000039903	7	39381748	39381790	0.08	0.24	0.42	9.54	6.22	8.35	0.25	8.04	0.03	-5.02	4.14	8.49	0.001	0.04	0.40
1009658	TSS	ENSSSCG00000009428	11	24321827	24321920	4.09	0.36	0.34	43.78	53.23	57.73	1.60	51.58	0.03	-5.01	26.59	12.37	0.000	0.02	2.13
1009659	TTS	ENSSSCG00000009428	11	24312150	24314072	4.09	0.36	0.34	43.78	53.23	57.73	1.60	51.58	0.03	-5.01	26.59	12.37	0.000	0.02	2.13
1051377	TSS	ENSSSCG00000006792	4	108951206	108951820	0.04	0.00	0.01	0.72	0.56	0.61	0.02	0.63	0.03	-5.01	0.32	10.41	0.000	0.03	1.35
1051378	TTS	ENSSSCG00000006792	4	108961813	108963665	0.04	0.00	0.01	0.72	0.56	0.61	0.02	0.63	0.03	-5.01	0.32	10.41	0.000	0.03	1.35
1026841	TSS	ENSSSCG00000015741	15	31685571	31686108	0.70	0.08	0.04	9.59	6.63	10.26	0.27	8.83	0.03	-5.01	4.55	8.00	0.001	0.04	0.12
1026842	TTS	ENSSSCG00000015741	15	31599673	31600331	0.70	0.08	0.04	9.59	6.63	10.26	0.27	8.83	0.03	-5.01	4.55	8.00	0.001	0.04	0.12
1052718	TTS	ENSSSCG00000034242	4	60505066	60507900	0.09	0.01	0.05	1.86	1.34	1.72	0.05	1.64	0.03	-5.01	0.84	10.37	0.000	0.03	1.33
1058034	TTS	ENSSSCG00000002768	6	28446687	28446702	1.42	0.93	1.36	0.00	0.00	0.00	1.24	0.00	695762.58	19.41	0.62	-8.18	0.001	0.04	0.22
1000765	TSS	ENSSSCG00000004263	1	44940794	44940850	1.55	1.24	1.02	0.00	0.00	0.00	1.27	0.00	51279.67	15.65	0.63	-8.40	0.001	0.04	0.35
1019643	TSS	ENSSSCG00000029811	13	3980464	3980557	0.71	0.92	0.84	0.00	0.00	0.00	0.83	0.00	5943.19	12.54	0.41	-11.90	0.000	0.02	1.96
1014231	SKIP_OFF	ENSSSCG00000033228	12	27261499	27261513	2.15	1.93	1.54	0.00	0.00	0.00	1.87	0.00	4076.38	11.99	0.94	-10.91	0.000	0.02	1.57
1014220	SKIP_ON	ENSSSCG00000033228	12	27262711	27262722	2.15	1.93	1.54	0.00	0.00	0.00	1.87	0.00	4076.38	11.99	0.94	-10.91	0.000	0.02	1.57
1049709	TSS	ENSSSCG00000006191	4	64710542	64710633	0.90	0.76	0.79	0.00	0.00	0.00	0.82	0.00	3976.77	11.96	0.41	-14.88	0.000	0.01	2.93
1023585	SKIP_OFF	ENSSSCG00000010281	14	74747072	74747197	4.37	5.26	5.11	0.00	0.00	0.02	4.91	0.01	761.07	9.57	2.46	-18.82	0.000	0.01	3.85
1069392	SKIP_OFF	ENSSSCG00000028225	7	116374054	116374209	0.31	0.33	0.31	0.00	0.00	0.00	0.32	0.00	728.24	9.51	0.16	-8.23	0.001	0.04	0.25
1029818	TTS	ENSSSCG00000034942	15	48383713	48388326	107.11	101.29	85.77	0.41	2.00	2.25	98.06	1.55	63.07	5.98	49.81	-16.03	0.000	0.01	3.23
1029817	TSS	ENSSSCG00000034942	15	48377513	48377756	111.90	104.71	87.37	0.50	2.11	2.33	101.33	1.65	61.40	5.94	51.49	-14.51	0.000	0.02	2.82
1075974	SKIP_OFF	ENSSSCG00000015537	9	122359024	122359125	0.51	0.53	0.42	0.00	0.03	0.00	0.49	0.01	41.96	5.39	0.25	-9.42	0.000	0.03	0.89
1067382	MSKIP_OFF	ENSSSCG00000001825	7	53686932	53687906	1.26	1.12	1.14	0.00	0.08	0.00	1.18	0.03	41.89	5.39	0.60	-18.80	0.000	0.01	3.85
1024037	TSS	ENSSSCG00000010455	14	101367855	101368158	0.98	0.61	0.86	0.08	0.00	0.00	0.81	0.03	31.72	4.99	0.42	-7.09	0.001	0.05	-0.45
1016020	TSS	ENSSSCG00000011423	13	33926804	33926915	0.34	0.27	0.28	0.01	0.03	0.02	0.30	0.02	16.50	4.04	0.16	-6.47	0.002	0.05	-0.88
1032155	MSKIP_OFF	ENSSSCG00000007133	17	30804841	30805130	0.70	1.03	0.76	0.17	0.00	0.00	0.83	0.06	14.43	3.85	0.44	-6.61	0.002	0.05	-0.78
1032151	XSKIP_OFF	ENSSSCG00000007133	17	30805003	30805130	0.70	1.03	0.76	0.17	0.00	0.00	0.83	0.06	14.43	3.85	0.44	-6.61	0.002	0.05	-0.78
1031358	TSS	ENSSSCG00000030343	16	34871780	34871822	0.60	0.77	0.62	0.00	0.00	0.19	0.66	0.06	10.55	3.40	0.36	-6.99	0.001	0.05	-0.52
1031365	XAE	ENSSSCG00000030343	16	34839254	34839386	0.60	0.77	0.62	0.00	0.00	0.19	0.66	0.06	10.55	3.40	0.36	-6.99	0.001	0.05	-0.52
1000555	TSS	ENSSSCG00000004195	1	32051209	32051376	1.39	1.37	1.53	0.16	0.26	0.00	1.43	0.14	10.28	3.36	0.79	-13.70	0.000	0.02	2.58
1008290	TTS	ENSSSCG00000011147	10	65572686	65574571	119.94	95.45	81.49	1.17	16.69	16.71	98.96	11.52	8.59	3.10	55.24	-7.51	0.001	0.04	-0.18
1019143	MSKIP_OFF	ENSSSCG00000026746	13	79332564	79332882	1.09	1.00	1.10	0.13	0.26	0.00	1.06	0.13	8.10	3.02	0.60	-10.75	0.000	0.02	1.50
1019148	SKIP_OFF	ENSSSCG00000026746	13	79330784	79330858	1.09	1.00	1.10	0.13	0.26	0.00	1.06	0.13	8.10	3.02	0.60	-10.75	0.000	0.02	1.50
1045599	SKIP_OFF	ENSSSCG00000008421	3	92002381	92002550	23.42	15.59	20.60	0.12	5.72	2.14	19.87	2.66	7.47	2.90	11.26	-6.50	0.002	0.05	-0.86
1062615	TSS	ENSSSCG00000027684	6	83507215	83508007	0.61	0.50	0.57	0.01	0.16	0.06	0.56	0.08	7.34	2.87	0.32	-7.53	0.001	0.04	-0.17
1062616	TTS	ENSSSCG00000027684	6	83488973	83493215	0.61	0.50	0.57	0.01	0.16	0.06	0.56	0.08	7.34	2.87	0.32	-7.53	0.001	0.04	-0.17
1045593	TSS	ENSSSCG00000008421	3	91964415	91964639	24.13	16.40	21.30	0.12	6.08	2.36	20.61	2.85	7.22	2.85	11.73	-6.62	0.002	0.05	-0.77
1045594	TTS	ENSSSCG00000008421	3	92020227	92021398	21.40	15.59	20.17	0.12	6.08	2.22	19.05	2.81	6.79	2.76	10.93	-6.95	0.001	0.05	-0.55

1045601	XSKIP_OFF	ENSSSCG00000008421	3	92015950	92015950	21.40	15.59	20.17	0.12	6.08	2.22	19.05	2.81	6.79	2.76	10.93	-6.95	0.001	0.05	-0.55
1045596	SKIP_ON	ENSSSCG00000008421	3	91984228	91984299	21.40	15.59	20.17	0.12	6.08	2.22	19.05	2.81	6.79	2.76	10.93	-6.95	0.001	0.05	-0.55
1010172	TSS	ENSSSCG00000022159	11	18756040	18756356	5.62	6.01	5.44	0.17	2.05	0.74	5.69	0.98	5.78	2.53	3.34	-8.59	0.001	0.03	0.45
1000556	TTS	ENSSSCG00000004195	1	32006042	32007153	1.72	1.37	1.97	0.26	0.48	0.19	1.68	0.31	5.44	2.44	1.00	-7.36	0.001	0.04	-0.27
1079470	TSS	ENSSSCG00000012638	X	100826849	100827728	13.78	17.69	16.20	0.83	5.48	2.63	15.89	2.98	5.33	2.41	9.44	-7.76	0.001	0.04	-0.02
1023991	SKIP_ON	ENSSSCG00000010437	14	99783084	99783098	45.82	54.54	58.86	1.47	18.39	14.04	53.07	11.30	4.70	2.23	32.19	-6.98	0.001	0.05	-0.52
1018359	TTS	ENSSSCG00000021966	13	74766604	74766639	0.92	1.04	0.80	0.19	0.24	0.19	0.92	0.21	4.46	2.16	0.56	-9.21	0.000	0.03	0.78
1065608	TTS	ENSSSCG00000040607	6	8484601	8485030	2.36	2.82	2.31	0.16	1.07	0.53	2.49	0.59	4.24	2.08	1.54	-6.49	0.002	0.05	-0.87
1080548	TSS	ENSSSCG00000030241	X	88234558	88234608	38.74	32.90	32.73	3.64	8.80	12.52	34.79	8.32	4.18	2.06	21.56	-8.67	0.001	0.03	0.50
1031575	TSS	ENSSSCG00000036438	16	71988875	71989011	1478.32	1110.57	1600.09	104.47	472.37	403.96	1396.32	326.93	4.27	2.09	861.63	-5.20	0.004	0.06	-1.89
1031576	TTS	ENSSSCG00000036438	16	71980468	71981522	1478.32	1110.57	1600.09	104.47	472.37	403.96	1396.32	326.93	4.27	2.09	861.63	-5.20	0.004	0.06	-1.89

Table S6 Differentially spliced Genes

Gene stable ID	Gene description	Gene name
ENSSSCG00000009755	acetoacetyl-CoA synthetase [Source:HGNC Symbol;Acc:HGNC:21298]	AACS
ENSSSCG000000026473	ATP binding cassette subfamily A member 8 [Source:HGNC Symbol;Acc:HGNC:38]	ABCA8
ENSSSCG000000024127	abl interactor 1 [Source:HGNC Symbol;Acc:HGNC:11320]	ABI1
ENSSSCG000000010737	abraxas 2, BRISC complex subunit [Source:HGNC Symbol;Acc:HGNC:28975]	ABRAXAS2
ENSSSCG000000007857	acyl-CoA synthetase medium chain family member 3 [Source:HGNC Symbol;Acc:HGNC:10522]	ACSM3
ENSSSCG000000007133	acyl-CoA synthetase short chain family member 1 [Source:HGNC Symbol;Acc:HGNC:16091]	ACSS1
ENSSSCG000000000939	acyl-CoA synthetase short chain family member 3 [Source:HGNC Symbol;Acc:HGNC:24723]	ACSS3
ENSSSCG000000010746	ADAM metallopeptidase domain 12 [Source:HGNC Symbol;Acc:HGNC:190]	ADAM12
ENSSSCG000000004270	adhesion G protein-coupled receptor B3 [Source:HGNC Symbol;Acc:HGNC:945]	ADGRB3
ENSSSCG000000038732	ArfGAP with GTPase domain, ankyrin repeat and PH domain 2	AGAP2
ENSSSCG000000008558	ATP/GTP binding protein like 5 [Source:HGNC Symbol;Acc:HGNC:26147]	AGBL5
ENSSSCG000000002504	adenylate kinase 7 [Source:HGNC Symbol;Acc:HGNC:20091]	AK7
ENSSSCG000000023894	AT-hook transcription factor [Source:HGNC Symbol;Acc:HGNC:24108]	AKNA
ENSSSCG000000028996	aldehyde dehydrogenase 1 family member A1 [Source:HGNC Symbol;Acc:HGNC:402]	ALDH1A1
ENSSSCG000000030626	aldehyde dehydrogenase 1 family member L1 [Source:HGNC Symbol;Acc:HGNC:3978]	ALDH1L1
ENSSSCG000000028501	aldehyde dehydrogenase 3 family member B1 [Source:HGNC Symbol;Acc:HGNC:410]	ALDH3B1
ENSSSCG000000021997	ALS2 C-terminal like [Source:HGNC Symbol;Acc:HGNC:20605]	ALS2CL
ENSSSCG000000016105	amyotrophic lateral sclerosis 2 chromosome region 12 [Source:HGNC Symbol;Acc:HGNC:14439]	ALS2CR12
ENSSSCG000000009814	anaphase promoting complex subunit 5 [Source:HGNC Symbol;Acc:HGNC:15713]	ANAPC5
ENSSSCG000000003819	Sus scrofa angiotensinogen like 3 (ANGPTL3), mRNA. [Source:RefSeq mRNA;Acc:NM_001003926]	ANGPTL3
ENSSSCG000000017609	ankyrin repeat and fibronectin type III domain containing 1	ANKFN1
ENSSSCG000000016365	ankyrin repeat and MYND domain containing 1 [Source:HGNC Symbol;Acc:HGNC:20987]	ANKMY1
ENSSSCG000000013497	ankyrin repeat domain 24 [Source:HGNC Symbol;Acc:HGNC:29424]	ANKRD24
ENSSSCG000000015491	ankyrin repeat domain 45 [Source:HGNC Symbol;Acc:HGNC:24786]	ANKRD45
ENSSSCG0000000032691	ankyrin repeat domain 66 [Source:HGNC Symbol;Acc:HGNC:44669]	ANKRD66
ENSSSCG000000024158	anoctamin 1 [Source:HGNC Symbol;Acc:HGNC:21625]	ANO1
ENSSSCG000000008336	annexin A4 [Source:RefSeq peptide;Acc:NP_001161111]	ANXA4
ENSSSCG000000017712	adaptor related protein complex 2 beta 1 subunit [Source:HGNC Symbol;Acc:HGNC:563]	AP2B1
ENSSSCG000000000668	apolipoprotein B mRNA editing enzyme catalytic subunit 1	APOBEC1
ENSSSCG000000014880	aquaporin-11 [Source:RefSeq peptide;Acc:NP_001106152]	AQP11
ENSSSCG000000004195	arginase 1 [Source:HGNC Symbol;Acc:HGNC:663]	ARG1
ENSSSCG000000015015	Rho GTPase activating protein 20 [Source:HGNC Symbol;Acc:HGNC:18357]	ARHGAP20
ENSSSCG000000012112	Rho GTPase activating protein 6 [Source:HGNC Symbol;Acc:HGNC:676]	ARHGAP6
ENSSSCG000000003486	Rho guanine nucleotide exchange factor 10 like [Source:HGNC Symbol;Acc:HGNC:25540]	ARHGEF10L
ENSSSCG000000006502	Rho/Rac guanine nucleotide exchange factor 2 [Source:HGNC Symbol;Acc:HGNC:682]	ARHGEF2
ENSSSCG000000030359	Rho guanine nucleotide exchange factor 3 [Source:HGNC Symbol;Acc:HGNC:683]	ARHGEF3
ENSSSCG000000021764	Rho guanine nucleotide exchange factor 38 [Source:HGNC Symbol;Acc:HGNC:25968]	ARHGEF38
ENSSSCG000000027278	ADP ribosylation factor like GTPase 6 [Source:HGNC Symbol;Acc:HGNC:13210]	ARL6
ENSSSCG000000011078	armadillo repeat containing 3 [Source:HGNC Symbol;Acc:HGNC:30964]	ARMC3
ENSSSCG000000011069	armadillo repeat containing 4 [Source:HGNC Symbol;Acc:HGNC:25583]	ARMC4
ENSSSCG000000013397	aryl hydrocarbon receptor nuclear translocator like [Source:HGNC Symbol;Acc:HGNC:701]	ARNTL
ENSSSCG000000023130	activating signal cointegrator 1 complex subunit 1 [Source:HGNC Symbol;Acc:HGNC:24268]	ASCC1
ENSSSCG000000017932	asialoglycoprotein receptor 2 [Source:HGNC Symbol;Acc:HGNC:743]	ASGR2
ENSSSCG000000008072	asporin [Source:HGNC Symbol;Acc:HGNC:14872]	ASPN
ENSSSCG000000021527	ATPase phospholipid transporting 10B (putative) [Source:HGNC Symbol;Acc:HGNC:13543]	ATP10B
ENSSSCG000000023084	ATPase plasma membrane Ca ²⁺ transporting 2 [Source:HGNC Symbol;Acc:HGNC:815]	ATP2B2
ENSSSCG000000002671	ATPase secretory pathway Ca ²⁺ transporting 2 [Source:HGNC Symbol;Acc:HGNC:29103]	ATP2C2
ENSSSCG000000015528	axonemal dynein light chain domain containing 1 [Source:HGNC Symbol;Acc:HGNC:26564]	AXDND1
ENSSSCG000000003619	antizyme inhibitor 2 [Source:RefSeq peptide;Acc:NP_001116665]	AZIN2
ENSSSCG000000032536	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 8	B3GNT8
ENSSSCG000000011014	BMP and activin membrane-bound inhibitor homolog precursor	BAMBI
ENSSSCG00000002356	basal body orientation factor 1 [Source:HGNC Symbol;Acc:HGNC:19855]	BBOF1
ENSSSCG000000025417	Bardet-Biedl syndrome 2 [Source:HGNC Symbol;Acc:HGNC:967]	BBS2
ENSSSCG000000015931	Bardet-Biedl syndrome 5 [Source:HGNC Symbol;Acc:HGNC:970]	BBS5
ENSSSCG000000007485	breast carcinoma amplified sequence 1 [Source:HGNC Symbol;Acc:HGNC:974]	BCAS1
ENSSSCG000000024109	3-hydroxybutyrate dehydrogenase 1 [Source:HGNC Symbol;Acc:HGNC:1027]	BDH1
ENSSSCG000000012137	BMX non-receptor tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:1079]	BMX
ENSSSCG000000010563	beta-transducin repeat containing E3 ubiquitin protein ligase	BTRC
ENSSSCG000000015035	chromosome 11 open reading frame 52 [Source:HGNC Symbol;Acc:HGNC:30531]	C11orf52

ENSSSCG00000015021	chromosome 11 open reading frame 88 [Source:HGNC Symbol;Acc:HGNC:25061]	C11orf88
ENSSSCG00000035388	chromosome 16 open reading frame 46 [Source:HGNC Symbol;Acc:HGNC:26525]	C16orf46
ENSSSCG00000013482	chromosome 19 open reading frame 71 [Source:HGNC Symbol;Acc:HGNC:34496]	C19orf71
ENSSSCG00000031102	chromosome 1 open reading frame 174 [Source:HGNC Symbol;Acc:HGNC:27915]	C1orf174
ENSSSCG00000003951	chromosome 1 open reading frame 210 [Source:HGNC Symbol;Acc:HGNC:28755]	C1orf210
ENSSSCG000000033259	chromosome 1 open reading frame 228 [Source:HGNC Symbol;Acc:HGNC:34345]	C1orf228
ENSSSCG00000003823	chromosome 1 open reading frame 87 [Source:HGNC Symbol;Acc:HGNC:28547]	C1orf87
ENSSSCG00000000117	chromosome 22 open reading frame 23 [Source:HGNC Symbol;Acc:HGNC:18589]	C22orf23
ENSSSCG000000008410	chromosome 2 open reading frame 73 [Source:HGNC Symbol;Acc:HGNC:26861]	C2orf73
ENSSSCG00000011482	chromosome 3 open reading frame 67 [Source:HGNC Symbol;Acc:HGNC:24763]	C3orf67
ENSSSCG00000011380	chromosome 3 open reading frame 84 [Source:HGNC Symbol;Acc:HGNC:44666]	C3orf84
ENSSSCG00000015662	Sus scrofa complement component 4 binding protein, alpha (C4BPA), mRNA.	C4BPA
ENSSSCG00000015794	chromosome 4 open reading frame 47 [Source:HGNC Symbol;Acc:HGNC:34346]	C4orf47
ENSSSCG00000017098	chromosome 5 open reading frame 49 [Source:HGNC Symbol;Acc:HGNC:27028]	C5orf49
ENSSSCG00000004028	chromosome 6 open reading frame 118 [Source:HGNC Symbol;Acc:HGNC:21233]	C6orf118
ENSSSCG000000034398	chromosome 8 open reading frame 37 [Source:HGNC Symbol;Acc:HGNC:27232]	C8orf37
ENSSSCG000000032228	chromosome 8 open reading frame 89 [Source:HGNC Symbol;Acc:HGNC:51258]	C8orf89
ENSSSCG000000035668	chromosome 9 open reading frame 135 [Source:HGNC Symbol;Acc:HGNC:31422]	C9orf135
ENSSSCG000000033268	ciliary associated calcium binding coiled-coil 1 [Source:HGNC Symbol;Acc:HGNC:28678]	CABCOCO1
ENSSSCG00000003257	calcium voltage-gated channel auxiliary subunit gamma 6	CACNG6
ENSSSCG000000038886	cancer antigen 1 [Source:HGNC Symbol;Acc:HGNC:21622]	CAGE1
ENSSSCG000000025768	Sus scrofa calmodulin 1 (CALM1), mRNA. [Source:RefSeq mRNA;Acc:NM_001244210]	CALM3
ENSSSCG00000013858	calreticulin 3 [Source:HGNC Symbol;Acc:HGNC:20407]	CALR3
ENSSSCG00000011550	calcium/calmodulin dependent protein kinase I [Source:HGNC Symbol;Acc:HGNC:1459]	CAMK1
ENSSSCG00000000517	calcyphosine 2 [Source:HGNC Symbol;Acc:HGNC:16471]	CAPS2
ENSSSCG000000031959	calcyphosine like [Source:HGNC Symbol;Acc:HGNC:28375]	CAPSL
ENSSSCG000000040550	cancer susceptibility 1 [Source:HGNC Symbol;Acc:HGNC:29599]	CASC1
ENSSSCG000000028157	caspase 8 [Source:HGNC Symbol;Acc:HGNC:1509]	CASP8
ENSSSCG00000014170	calpastatin [Source:HGNC Symbol;Acc:HGNC:1515]	CAST
ENSSSCG000000003407	castor zinc finger 1 [Source:HGNC Symbol;Acc:HGNC:26002]	CASZ1
ENSSSCG000000003083	Cbl proto-oncogene C [Source:HGNC Symbol;Acc:HGNC:15961]	CBLC
ENSSSCG000000040334	chromobox 6 [Source:HGNC Symbol;Acc:HGNC:1556]	CBX6
ENSSSCG00000015795	coiled-coil domain containing 110 [Source:HGNC Symbol;Acc:HGNC:28504]	CCDC110
ENSSSCG000000002803	coiled-coil domain containing 113 [Source:HGNC Symbol;Acc:HGNC:25002]	CCDC113
ENSSSCG000000026689	coiled-coil domain containing 114 [Source:HGNC Symbol;Acc:HGNC:26560]	CCDC114
ENSSSCG00000015109	coiled-coil domain containing 153 [Source:HGNC Symbol;Acc:HGNC:27446]	CCDC153
ENSSSCG00000010003	coiled-coil domain containing 157 [Source:HGNC Symbol;Acc:HGNC:33854]	CCDC157
ENSSSCG00000021448	coiled-coil domain containing 17 [Source:HGNC Symbol;Acc:HGNC:26574]	CCDC17
ENSSSCG00000004087	coiled-coil domain containing 170 [Source:HGNC Symbol;Acc:HGNC:21177]	CCDC170
ENSSSCG000000027678	coiled-coil domain containing 175 [Source:HGNC Symbol;Acc:HGNC:19847]	CCDC175
ENSSSCG00000001908	coiled-coil domain containing 33 [Source:HGNC Symbol;Acc:HGNC:26552]	CCDC33
ENSSSCG00000017158	coiled-coil domain containing 40 [Source:HGNC Symbol;Acc:HGNC:26090]	CCDC40
ENSSSCG00000014917	coiled-coil domain containing 81 [Source:HGNC Symbol;Acc:HGNC:26281]	CCDC81
ENSSSCG000000024232	coiled-coil domain containing 91 [Source:HGNC Symbol;Acc:HGNC:24855]	CCDC91
ENSSSCG000000022196	chaperonin containing TCP1 subunit 6B [Source:HGNC Symbol;Acc:HGNC:1621]	CCT6B
ENSSSCG000000006309	CD247 molecule [Source:HGNC Symbol;Acc:HGNC:1677]	CD247
ENSSSCG000000023993	CD96 molecule [Source:HGNC Symbol;Acc:HGNC:16892]	CD96
ENSSSCG00000013018	CDC42 binding protein kinase gamma [Source:HGNC Symbol;Acc:HGNC:29829]	CDC42BPG
ENSSSCG00000011298	CUB domain containing protein 1 [Source:HGNC Symbol;Acc:HGNC:24357]	CDCP1
ENSSSCG000000025652	Sus scrofa cadherin 1 (CDH1), mRNA. [Source:RefSeq mRNA;Acc:NM_001163060]	CDH1
ENSSSCG00000011391	cadherin related family member 4 [Source:HGNC Symbol;Acc:HGNC:34527]	CDHR4
ENSSSCG000000008970	cyclin dependent kinase like 2 [Source:HGNC Symbol;Acc:HGNC:1782]	CDKL2
ENSSSCG00000013476	CUGBP Elav-like family member 5 [Source:HGNC Symbol;Acc:HGNC:14058]	CELF5
ENSSSCG000000031361	cadherin EGF LAG seven-pass G-type receptor 1 [Source:HGNC Symbol;Acc:HGNC:1850]	CELSR1
ENSSSCG000000002768	centromere protein T [Source:HGNC Symbol;Acc:HGNC:25787]	CENPT
ENSSSCG00000011949	centrosomal protein 97 [Source:HGNC Symbol;Acc:HGNC:26244]	CEP97
ENSSSCG00000016010	ceramide kinase like [Source:HGNC Symbol;Acc:HGNC:21699]	CERKL
ENSSSCG000000006644	ceramide synthase 2 [Source:HGNC Symbol;Acc:HGNC:14076]	CERS2
ENSSSCG000000024476	carboxylesterase 3 precursor [Source:RefSeq peptide;Acc:NP_001230554]	CES3
ENSSSCG000000023957	cilia and flagella associated protein 126 [Source:HGNC Symbol;Acc:HGNC:32325]	CFAP126
ENSSSCG000000005618	cilia and flagella associated protein 157 [Source:HGNC Symbol;Acc:HGNC:27843]	CFAP157
ENSSSCG000000001786	cilia and flagella associated protein 161 [Source:HGNC Symbol;Acc:HGNC:26782]	CFAP161
ENSSSCG000000002805	cilia- and flagella-associated protein 20 [Source:RefSeq peptide;Acc:NP_001231715]	CFAP20

ENSSSCG00000015741	cilia and flagella associated protein 221 [Source:HGNC Symbol;Acc:HGNC:33720]	CFAP221
ENSSSCG00000010768	cilia and flagella associated protein 46 [Source:HGNC Symbol;Acc:HGNC:25247]	CFAP46
ENSSSCG00000017994	cilia and flagella associated protein 52 [Source:HGNC Symbol;Acc:HGNC:16053]	CFAP52
ENSSSCG00000033574	cilia and flagella associated protein 54 [Source:HGNC Symbol;Acc:HGNC:26456]	CFAP54
ENSSSCG00000023904	cilia and flagella associated protein 57 [Source:HGNC Symbol;Acc:HGNC:26485]	CFAP57
ENSSSCG00000010614	cilia and flagella associated protein 58 [Source:HGNC Symbol;Acc:HGNC:26676]	CFAP58
ENSSSCG00000016203	cilia and flagella associated protein 65 [Source:HGNC Symbol;Acc:HGNC:25325]	CFAP65
ENSSSCG00000015303	cilia and flagella associated protein 69 [Source:HGNC Symbol;Acc:HGNC:26107]	CFAP69
ENSSSCG00000010298	cilia and flagella associated protein 70 [Source:HGNC Symbol;Acc:HGNC:30726]	CFAP70
ENSSSCG00000030513	cilia and flagella associated protein 74 [Source:HGNC Symbol;Acc:HGNC:29368]	CFAP74
ENSSSCG00000005727	cilia and flagella associated protein 77 [Source:HGNC Symbol;Acc:HGNC:33776]	CFAP77
ENSSSCG00000034633	cilia and flagella associated protein 99 [Source:HGNC Symbol;Acc:HGNC:51180]	CFAP99
ENSSSCG00000016626	cystic fibrosis transmembrane conductance regulator [Source:HGNC Symbol;Acc:HGNC:1884]	CFTR
ENSSSCG00000021363	chromodomain helicase DNA binding protein 3 [Source:HGNC Symbol;Acc:HGNC:1918]	CHD3
ENSSSCG00000025980	charged multivesicular body protein 4C [Source:HGNC Symbol;Acc:HGNC:30599]	CHMP4C
ENSSSCG00000001989	cell death-inducing DFFA-like effector b [Source:HGNC Symbol;Acc:HGNC:1977]	CIDEB
ENSSSCG00000013427	cold inducible RNA binding protein [Source:HGNC Symbol;Acc:HGNC:1982]	CIRBP
ENSSSCG00000008089	cytoskeleton associated protein 2 like [Source:HGNC Symbol;Acc:HGNC:26877]	CKAP2L
ENSSSCG00000008402	clathrin heavy chain linker domain containing 1 [Source:HGNC Symbol;Acc:HGNC:26453]	CLHC1
ENSSSCG00000007955	clusterin associated protein 1 [Source:HGNC Symbol;Acc:HGNC:19009]	CLUAP1
ENSSSCG00000032060	C-X9-C motif containing 2 [Source:HGNC Symbol;Acc:HGNC:24447]	CMC2
ENSSSCG00000022618	CKLF like MARVEL transmembrane domain containing 8	CMTM8
ENSSSCG00000012164	connector enhancer of kinase suppressor of Ras 2 [Source:HGNC Symbol;Acc:HGNC:19701]	CNKSR2
ENSSSCG00000013547	crumbs 3, cell polarity complex component [Source:HGNC Symbol;Acc:HGNC:20237]	CRB3
ENSSSCG00000016690	cAMP responsive element binding protein 5 [Source:HGNC Symbol;Acc:HGNC:16844]	CREB5
ENSSSCG00000036261	ciliary rootlet coiled-coil, rootletin family member 2 [Source:HGNC Symbol;Acc:HGNC:51677]	CROCC2
ENSSSCG00000004371	crystallin beta-gamma domain containing 1 [Source:HGNC Symbol;Acc:HGNC:356]	CRYBG1
ENSSSCG00000007774	cardiotrophin 1 [Source:HGNC Symbol;Acc:HGNC:2499]	CTF1
ENSSSCG00000012970	cathepsin W [Source:HGNC Symbol;Acc:HGNC:2546]	CTSW
ENSSSCG00000012249	chromosome X open reading frame 38 [Source:HGNC Symbol;Acc:HGNC:28589]	CXorf38
ENSSSCG00000012549	chromosome X open reading frame 57 [Source:HGNC Symbol;Acc:HGNC:25486]	CXorf57
ENSSSCG00000000038	cytochrome b5 reductase 3 [Source:HGNC Symbol;Acc:HGNC:2873]	CYB5R3
ENSSSCG00000003825	Sus scrofa cytochrome P450, family 2, subfamily J, polypeptide 34 (CYP2J34), mRNA.	CYP2J34
ENSSSCG00000016255	dynein assembly factor with WD repeats 1 [Source:HGNC Symbol;Acc:HGNC:26383]	DAW1
ENSSSCG00000011977	discoidin, CUB and LCCL domain containing 2 [Source:HGNC Symbol;Acc:HGNC:24627]	DCBLD2
ENSSSCG00000013326	doublecortin domain containing 1 [Source:HGNC Symbol;Acc:HGNC:20625]	DCDC1
ENSSSCG00000008942	deoxycytidine kinase [Source:HGNC Symbol;Acc:HGNC:2704]	DCK
ENSSSCG00000006783	DEAD-box helicase 20 [Source:HGNC Symbol;Acc:HGNC:2743]	DDX20
ENSSSCG00000002640	differentially expressed in FDCP 8 homolog [Source:HGNC Symbol;Acc:HGNC:25969]	DEF8
ENSSSCG00000005585	DENN domain containing 1A [Source:HGNC Symbol;Acc:HGNC:29324]	DENND1A
ENSSSCG00000013546	DENN domain containing 1C [Source:HGNC Symbol;Acc:HGNC:26225]	DENND1C
ENSSSCG000000025704	DENN domain containing 2D [Source:HGNC Symbol;Acc:HGNC:26192]	DENND2D
ENSSSCG00000014943	deuterosome assembly protein 1 [Source:HGNC Symbol;Acc:HGNC:26344]	DEUP1
ENSSSCG00000016521	diacylglycerol kinase iota [Source:HGNC Symbol;Acc:HGNC:2855]	DGKI
ENSSSCG000000028225	dicer 1, ribonuclease III [Source:HGNC Symbol;Acc:HGNC:17098]	DICER1
ENSSSCG00000011249	deleted in lung and esophageal cancer 1 [Source:HGNC Symbol;Acc:HGNC:2899]	DLEC1
ENSSSCG00000004608	dynein axonemal assembly factor 4 [Source:HGNC Symbol;Acc:HGNC:21493]	DNAAF4
ENSSSCG000000028184	dynein axonemal heavy chain 1 [Source:HGNC Symbol;Acc:HGNC:2940]	DNAH1
ENSSSCG000000009765	dynein axonemal heavy chain 10 [Source:HGNC Symbol;Acc:HGNC:2941]	DNAH10
ENSSSCG000000031798	dynein axonemal heavy chain 3 [Source:HGNC Symbol;Acc:HGNC:2949]	DNAH3
ENSSSCG000000032814	dynein axonemal heavy chain 7 [Source:HGNC Symbol;Acc:HGNC:18661]	DNAH7
ENSSSCG00000018015	dynein axonemal heavy chain 9 [Source:HGNC Symbol;Acc:HGNC:2953]	DNAH9
ENSSSCG000000024357	dynein axonemal intermediate chain 2 [Source:HGNC Symbol;Acc:HGNC:18744]	DNAI2
ENSSSCG000000039469	dynein axonemal light chain 1 [Source:HGNC Symbol;Acc:HGNC:23247]	DNAL1
ENSSSCG000000000093	dynein axonemal light chain 4 [Source:HGNC Symbol;Acc:HGNC:2955]	DNAL4
ENSSSCG000000039034	dynein axonemal light intermediate chain 1 [Source:HGNC Symbol;Acc:HGNC:14353]	DNAL11
ENSSSCG00000007488	docking protein 5 [Source:RefSeq peptide;Acc:NP_001116579]	DOK5
ENSSSCG00000015711	dipeptidyl peptidase like 10 [Source:HGNC Symbol;Acc:HGNC:20823]	DPP10
ENSSSCG00000003423	dorsal inhibitory axon guidance protein [Source:HGNC Symbol;Acc:HGNC:25054]	DRAXIN
ENSSSCG00000008568	dynein regulatory complex subunit 1 [Source:HGNC Symbol;Acc:HGNC:24245]	DRC1
ENSSSCG000000037557	dynein regulatory complex subunit 3 [Source:HGNC Symbol;Acc:HGNC:25384]	DRC3
ENSSSCG000000002817	dynein regulatory complex subunit 7 [Source:HGNC Symbol;Acc:HGNC:25289]	DRC7
ENSSSCG00000015048	dopamine receptor D2 [Source:HGNC Symbol;Acc:HGNC:3023]	DRD2

ENSSSCG00000024800	desmocollin 3 [Source:HGNC Symbol;Acc:HGNC:3037]	DSC3
ENSSSCG00000015082	DS cell adhesion molecule like 1 [Source:HGNC Symbol;Acc:HGNC:14656]	DSCAML1
ENSSSCG00000022739	desmoglein 2 [Source:HGNC Symbol;Acc:HGNC:3049]	DSG2
ENSSSCG00000001025	desmoplakin [Source:HGNC Symbol;Acc:HGNC:3052]	DSP
ENSSSCG000000028471	death domain containing 1 [Source:HGNC Symbol;Acc:HGNC:37261]	DTHD1
ENSSSCG00000000449	deltex E3 ubiquitin ligase 3 [Source:HGNC Symbol;Acc:HGNC:24457]	DTX3
ENSSSCG000000010339	DPY30 domain containing 2 [Source:HGNC Symbol;Acc:HGNC:23468]	DYDC2
ENSSSCG000000007094	double zinc ribbon and ankyrin repeat domains 1 [Source:HGNC Symbol;Acc:HGNC:15858]	DZANK1
ENSSSCG000000009501	DAZ interacting zinc finger protein 1 [Source:HGNC Symbol;Acc:HGNC:20908]	DZIP1
ENSSSCG000000027467	DAZ interacting zinc finger protein 1 like [Source:HGNC Symbol;Acc:HGNC:26551]	DZIP1L
ENSSSCG000000004147	epithelial cell transforming 2 like [Source:HGNC Symbol;Acc:HGNC:21118]	ECT2L
ENSSSCG000000007839	eukaryotic elongation factor 2 kinase [Source:HGNC Symbol;Acc:HGNC:24615]	EEF2K
ENSSSCG000000032887	EF-hand calcium binding domain 1 [Source:HGNC Symbol;Acc:HGNC:25678]	EFCAB1
ENSSSCG000000002430	EF-hand calcium binding domain 11 [Source:HGNC Symbol;Acc:HGNC:20357]	EFCAB11
ENSSSCG000000003814	EF-hand calcium binding domain 7 [Source:HGNC Symbol;Acc:HGNC:29379]	EFCAB7
ENSSSCG000000008397	EGF containing fibulin like extracellular matrix protein 1 [Source:HGNC Symbol;Acc:HGNC:3218]	EFEMP1
ENSSSCG000000011205	EF-hand domain family member B [Source:HGNC Symbol;Acc:HGNC:26330]	EFHB
ENSSSCG000000002620	EF-hand domain containing 1 [Source:HGNC Symbol;Acc:HGNC:16406]	EFHC1
ENSSSCG000000021846	EF-hand domain containing 2 [Source:HGNC Symbol;Acc:HGNC:26233]	EFHC2
ENSSSCG000000029484	embigin [Source:HGNC Symbol;Acc:HGNC:30465]	EMB
ENSSSCG000000038080	endomucin [Source:HGNC Symbol;Acc:HGNC:16041]	EMCN
ENSSSCG000000032929	enkurin, TRPC channel interacting protein [Source:HGNC Symbol;Acc:HGNC:28388]	ENKUR
ENSSSCG000000010664	enolase family member 4 [Source:HGNC Symbol;Acc:HGNC:31670]	ENO4
ENSSSCG000000027169	enolase superfamily member 1 [Source:HGNC Symbol;Acc:HGNC:30365]	ENOSF1
ENSSSCG000000012663	ecto-NOX disulfide-thiol exchanger 2 [Source:HGNC Symbol;Acc:HGNC:2259]	ENOX2
ENSSSCG000000006001	ectonucleotide pyrophosphatase/phosphodiesterase 2 [Source:HGNC Symbol;Acc:HGNC:3357]	ENPP2
ENSSSCG000000025788	ectonucleotide pyrophosphatase/phosphodiesterase 4 [Source:HGNC Symbol;Acc:HGNC:3359]	ENPP4
ENSSSCG000000001715	ectonucleotide pyrophosphatase/phosphodiesterase 5 (putative)	ENPP5
ENSSSCG000000003586	erythrocyte membrane protein band 4.1 [Source:HGNC Symbol;Acc:HGNC:3377]	EPB41
ENSSSCG000000005446	erythrocyte membrane protein band 4.1 like 4B [Source:HGNC Symbol;Acc:HGNC:19818]	EPB41L4B
ENSSSCG0000000028144	epoxide hydrolase 3 [Source:HGNC Symbol;Acc:HGNC:23760]	EPHX3
ENSSSCG0000000032203	epiplakin 1 [Source:HGNC Symbol;Acc:HGNC:15577]	EPPK1
ENSSSCG0000000022706	glutamate rich 6 [Source:HGNC Symbol;Acc:HGNC:28602]	ERICH6
ENSSSCG000000016782	family with sequence similarity 105 member A [Source:HGNC Symbol;Acc:HGNC:25629]	FAM105A
ENSSSCG000000007200	family with sequence similarity 110 member A [Source:HGNC Symbol;Acc:HGNC:16188]	FAM110A
ENSSSCG000000017551	family with sequence similarity 117 member A [Source:HGNC Symbol;Acc:HGNC:24179]	FAM117A
ENSSSCG000000008378	family with sequence similarity 161 member A [Source:HGNC Symbol;Acc:HGNC:25808]	FAM161A
ENSSSCG000000002353	family with sequence similarity 161 member B [Source:HGNC Symbol;Acc:HGNC:19854]	FAM161B
ENSSSCG000000032852	family with sequence similarity 167 member A [Source:HGNC Symbol;Acc:HGNC:15549]	FAM167A
ENSSSCG000000008004	family with sequence similarity 173 member A [Source:HGNC Symbol;Acc:HGNC:14152]	FAM173A
ENSSSCG000000004617	family with sequence similarity 214 member A [Source:HGNC Symbol;Acc:HGNC:25609]	FAM214A
ENSSSCG000000009822	protein FAM216A [Source:RefSeq peptide;Acc:NP_001231370]	FAM216A
ENSSSCG000000009428	family with sequence similarity 216 member B [Source:HGNC Symbol;Acc:HGNC:26883]	FAM216B
ENSSSCG000000005324	family with sequence similarity 221 member B [Source:HGNC Symbol;Acc:HGNC:30762]	FAM221B
ENSSSCG0000000036621	family with sequence similarity 229 member B [Source:HGNC Symbol;Acc:HGNC:33858]	FAM229B
ENSSSCG000000026175	family with sequence similarity 81 member B [Source:HGNC Symbol;Acc:HGNC:26335]	FAM81B
ENSSSCG0000000036964	family with sequence similarity 83 member H [Source:HGNC Symbol;Acc:HGNC:24797]	FAM83H
ENSSSCG000000005967	family with sequence similarity 84 member B [Source:HGNC Symbol;Acc:HGNC:24166]	FAM84B
ENSSSCG000000002668	family with sequence similarity 92 member B [Source:HGNC Symbol;Acc:HGNC:24781]	FAM92B
ENSSSCG000000001837	Fanconi anemia complementation group I [Source:HGNC Symbol;Acc:HGNC:25568]	FANCI
ENSSSCG000000010745	fibronectin type III and ankyrin repeat domains 1 [Source:HGNC Symbol;Acc:HGNC:23527]	FANK1
ENSSSCG0000000039802	F-box and leucine rich repeat protein 2 [Source:HGNC Symbol;Acc:HGNC:13598]	FBXL2
ENSSSCG000000004873	F-box protein 15 [Source:HGNC Symbol;Acc:HGNC:13617]	FBXO15
ENSSSCG000000009678	F-box protein 16 [Source:HGNC Symbol;Acc:HGNC:13618]	FBXO16
ENSSSCG000000013725	F-box and WD repeat domain containing 9 [Source:HGNC Symbol;Acc:HGNC:28136]	FBXW9
ENSSSCG000000007052	fermitin family member 1 [Source:HGNC Symbol;Acc:HGNC:15889]	FERMT1
ENSSSCG000000010478	free fatty acid receptor 4 [Source:HGNC Symbol;Acc:HGNC:19061]	FFAR4
ENSSSCG000000004023	FGFR1 oncogene partner [Source:HGNC Symbol;Acc:HGNC:17012]	FGFR1OP
ENSSSCG000000003828	FGGY carbohydrate kinase domain containing [Source:HGNC Symbol;Acc:HGNC:25610]	FGGY
ENSSSCG000000003455	forkhead associated phosphopeptide binding domain 1	FHAD1
ENSSSCG000000006702	flavin containing monooxygenase 5 [Source:HGNC Symbol;Acc:HGNC:3773]	FMO5
ENSSSCG000000022159	fibronectin type III domain containing 3A [Source:HGNC Symbol;Acc:HGNC:20296]	FNDC3A
ENSSSCG000000014812	folate receptor beta [Source:HGNC Symbol;Acc:HGNC:3793]	FOLR2

ENSSSCG00000017187	forkhead box J1 [Source:HGNC Symbol;Acc:HGNC:3816]	FOXJ1
ENSSSCG00000004434	fyn related Src family tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:3955]	FRK
ENSSSCG00000010379	FERM and PDZ domain containing 2 [Source:HGNC Symbol;Acc:HGNC:28572]	FRMPD2
ENSSSCG00000005426	fibronectin type III and SPRY domain containing 1 like [Source:HGNC Symbol;Acc:HGNC:13753]	FSD1L
ENSSSCG00000040418	fibrous sheath interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:21674]	FSIP1
ENSSSCG00000004651	galactokinase 2 [Source:HGNC Symbol;Acc:HGNC:4119]	GALK2
ENSSSCG00000015907	polypeptide N-acetylgalactosaminyltransferase 3 [Source:HGNC Symbol;Acc:HGNC:4125]	GALNT3
ENSSSCG00000004729	glucosidase alpha, neutral C [Source:HGNC Symbol;Acc:HGNC:4139]	GANC
ENSSSCG000000039395	growth arrest specific 2 like 2 [Source:HGNC Symbol;Acc:HGNC:24846]	GAS2L2
ENSSSCG00000002633	growth arrest specific 8 [Source:HGNC Symbol;Acc:HGNC:4166]	GAS8
ENSSSCG00000016751	glucokinase [Source:HGNC Symbol;Acc:HGNC:4195]	GCK
ENSSSCG000000035582	GIPC PDZ domain containing family member 2 [Source:HGNC Symbol;Acc:HGNC:18177]	GIPC2
ENSSSCG00000015258	galactosidase beta 1 like 2 [Source:HGNC Symbol;Acc:HGNC:25129]	GLB1L2
ENSSSCG00000007931	glyoxylate reductase 1 homolog [Source:HGNC Symbol;Acc:HGNC:24434]	GLYR1
ENSSSCG00000001095	geminin, DNA replication inhibitor [Source:HGNC Symbol;Acc:HGNC:17493]	GMNN
ENSSSCG000000038558	golgi phosphoprotein 3 like [Source:HGNC Symbol;Acc:HGNC:24882]	GOLPH3L
ENSSSCG000000040989	G protein-coupled receptor class C group 5 member C	GPRC5C
ENSSSCG00000011915	GRAM domain containing 1C [Source:HGNC Symbol;Acc:HGNC:25252]	GRAMD1C
ENSSSCG000000031441	GRAM domain containing 4 [Source:HGNC Symbol;Acc:HGNC:29113]	GRAMD4
ENSSSCG00000017495	growth factor receptor bound protein 7 [Source:HGNC Symbol;Acc:HGNC:4567]	GRB7
ENSSSCG00000012638	glutamate ionotropic receptor AMPA type subunit 3 [Source:HGNC Symbol;Acc:HGNC:4573]	GRIA3
ENSSSCG00000009956	G protein-coupled receptor kinase 3 [Source:HGNC Symbol;Acc:HGNC:290]	GRK3
ENSSSCG00000011423	glutamate metabotropic receptor 2 [Source:HGNC Symbol;Acc:HGNC:4594]	GRM2
ENSSSCG000000037508	gelsolin [Source:HGNC Symbol;Acc:HGNC:4620]	GSN
ENSSSCG00000001978	granzyme B precursor [Source:RefSeq peptide;Acc:NP_001137182]	GZMB
ENSSSCG00000011192	2-hydroxyacyl-CoA lyase 1 [Source:HGNC Symbol;Acc:HGNC:17856]	HACL1
ENSSSCG000000008003	hydroxyacylglutathione hydrolase like [Source:HGNC Symbol;Acc:HGNC:14177]	HAGHL
ENSSSCG000000028031	histone deacetylase 11 [Source:HGNC Symbol;Acc:HGNC:19086]	HDAC11
ENSSSCG000000030548	HECT and RLD domain containing E3 ubiquitin protein ligase 5	HERC5
ENSSSCG000000006760	homeodomain interacting protein kinase 1 [Source:HGNC Symbol;Acc:HGNC:19006]	HIPK1
ENSSSCG00000001459	major histocompatibility complex, class II, DO beta [Source:HGNC Symbol;Acc:HGNC:4937]	HLA-DOB
ENSSSCG000000034242	hepatocyte nuclear factor 4 gamma [Source:HGNC Symbol;Acc:HGNC:5026]	HNF4G
ENSSSCG00000017534	homeobox B3 [Source:HGNC Symbol;Acc:HGNC:5114]	HOXB3
ENSSSCG000000038993	homeobox C4 [Source:HGNC Symbol;Acc:HGNC:5126]	HOXC4
ENSSSCG000000032664	hippocalcin [Source:HGNC Symbol;Acc:HGNC:5144]	HPCA
ENSSSCG000000009699	15-hydroxyprostaglandin dehydrogenase [Source:HGNC Symbol;Acc:HGNC:5154]	HPGD
ENSSSCG000000009237	heparanase precursor [Source:RefSeq peptide;Acc:NP_001139602]	HPSE
ENSSSCG00000001476	hydroxysteroid 17-beta dehydrogenase 8 [Source:HGNC Symbol;Acc:HGNC:3554]	HSD17B8
ENSSSCG000000040973	HYDIN, axonemal central pair apparatus protein [Source:HGNC Symbol;Acc:HGNC:19368]	HYDIN
ENSSSCG000000039909	intercellular adhesion molecule 2 precursor [Source:RefSeq peptide;Acc:NP_001001631]	ICAM2
ENSSSCG00000011589	intraflagellar transport 122 [Source:HGNC Symbol;Acc:HGNC:13556]	IFT122
ENSSSCG000000008020	intraflagellar transport 140 [Source:HGNC Symbol;Acc:HGNC:29077]	IFT140
ENSSSCG000000026367	intraflagellar transport 172 [Source:HGNC Symbol;Acc:HGNC:30391]	IFT172
ENSSSCG000000029649	intraflagellar transport 46 [Source:HGNC Symbol;Acc:HGNC:26146]	IFT46
ENSSSCG000000009270	intraflagellar transport 88 [Source:HGNC Symbol;Acc:HGNC:20606]	IFT88
ENSSSCG00000016164	IKAROS family zinc finger 2 [Source:HGNC Symbol;Acc:HGNC:13177]	IKZF2
ENSSSCG000000038848	interleukin 22 receptor subunit alpha 1 [Source:HGNC Symbol;Acc:HGNC:13700]	IL22RA1
ENSSSCG000000006161	interleukin 7 [Source:HGNC Symbol;Acc:HGNC:6023]	IL7
ENSSSCG000000034987	IQ motif and ankyrin repeat containing 1 [Source:HGNC Symbol;Acc:HGNC:49576]	IQANK1
ENSSSCG00000016321	IQ motif containing with AAA domain 1 [Source:HGNC Symbol;Acc:HGNC:26195]	IQCA1
ENSSSCG00000011881	IQ motif containing B1 [Source:HGNC Symbol;Acc:HGNC:28949]	IQCB1
ENSSSCG000000009877	IQ motif containing D [Source:HGNC Symbol;Acc:HGNC:25168]	IQCD
ENSSSCG000000007568	IQ motif containing E [Source:HGNC Symbol;Acc:HGNC:29171]	IQCE
ENSSSCG00000011855	IQ motif containing G [Source:HGNC Symbol;Acc:HGNC:25251]	IQCG
ENSSSCG000000034963	IQ motif containing H [Source:HGNC Symbol;Acc:HGNC:25721]	IQCH
ENSSSCG000000033381	interferon regulatory factor 4 [Source:HGNC Symbol;Acc:HGNC:6119]	IRF4
ENSSSCG00000015612	interferon regulatory factor 6 [Source:HGNC Symbol;Acc:HGNC:6121]	IRF6
ENSSSCG000000009071	jade family PHD finger 1 [Source:HGNC Symbol;Acc:HGNC:30027]	JADE1
ENSSSCG00000015089	junction adhesion molecule like [Source:HGNC Symbol;Acc:HGNC:19084]	JAML
ENSSSCG00000015138	junctional cadherin complex regulator [Source:HGNC Symbol;Acc:HGNC:26288]	JHY
ENSSSCG000000022643	katanin catalytic subunit A1 like 2 [Source:HGNC Symbol;Acc:HGNC:25387]	KATNAL2
ENSSSCG000000000203	potassium voltage-gated channel subfamily H member 3	KCNH3
ENSSSCG000000023451	potassium two pore domain channel subfamily K member 2	KCNK2

ENSSSCG0000007814	KIAA0556 [Source:HGNC Symbol;Acc:HGNC:29068]	KIAA0556
ENSSSCG00000016491	KIAA1147 [Source:HGNC Symbol;Acc:HGNC:29472]	KIAA1147
ENSSSCG00000011075	KIAA1217 [Source:HGNC Symbol;Acc:HGNC:25428]	KIAA1217
ENSSSCG00000006969	KIAA1456 [Source:HGNC Symbol;Acc:HGNC:26725]	KIAA1456
ENSSSCG00000004899	KIAA1468 [Source:HGNC Symbol;Acc:HGNC:29289]	KIAA1468
ENSSSCG00000013311	KIAA1549 like [Source:HGNC Symbol;Acc:HGNC:24836]	KIAA1549L
ENSSSCG00000008386	KIAA1841 [Source:HGNC Symbol;Acc:HGNC:29387]	KIAA1841
ENSSSCG00000016110	KIAA2012 [Source:HGNC Symbol;Acc:HGNC:51250]	KIAA2012
ENSSSCG00000003508	kinesin family member 17 [Source:HGNC Symbol;Acc:HGNC:19167]	KIF17
ENSSSCG00000010984	kinesin family member 24 [Source:HGNC Symbol;Acc:HGNC:19916]	KIF24
ENSSSCG000000021571	kinesin family member 27 [Source:HGNC Symbol;Acc:HGNC:18632]	KIF27
ENSSSCG00000007247	kinesin family member 3B [Source:HGNC Symbol;Acc:HGNC:6320]	KIF3B
ENSSSCG000000040510	kinesin family member 9 [Source:HGNC Symbol;Acc:HGNC:16666]	KIF9
ENSSSCG00000012955	kinesin light chain 2 [Source:HGNC Symbol;Acc:HGNC:20716]	KLC2
ENSSSCG000000023732	kelch domain containing 7A [Source:HGNC Symbol;Acc:HGNC:26791]	KLHDC7A
ENSSSCG000000038597	kelch domain containing 9 [Source:HGNC Symbol;Acc:HGNC:28489]	KLHDC9
ENSSSCG00000012637	kelch like family member 13 [Source:HGNC Symbol;Acc:HGNC:22931]	KLHL13
ENSSSCG00000010770	kinase non-catalytic C-lobe domain containing 1 [Source:HGNC Symbol;Acc:HGNC:29374]	KNDC1
ENSSSCG00000015313	KRIT1, ankyrin repeat containing [Source:HGNC Symbol;Acc:HGNC:1573]	KRIT1
ENSSSCG00000017444	keratin 15 [Source:HGNC Symbol;Acc:HGNC:6421]	KRT15
ENSSSCG000000037854	trans-L-3-hydroxyproline dehydratase [Source:HGNC Symbol;Acc:HGNC:20488]	L3HYPDH
ENSSSCG000000004469	LCA5, lebercilin [Source:HGNC Symbol;Acc:HGNC:31923]	LCA5
ENSSSCG000000028122	LCA5L, lebercilin like [Source:HGNC Symbol;Acc:HGNC:1255]	LCA5L
ENSSSCG000000005055	galectin 3 [Source:HGNC Symbol;Acc:HGNC:6563]	LGALS3
ENSSSCG000000027144	lamin tail domain containing 1 [Source:HGNC Symbol;Acc:HGNC:26683]	LMNTD1
ENSSSCG000000023057	LIM domain only 1 [Source:HGNC Symbol;Acc:HGNC:6641]	LMO1
ENSSSCG000000040184	LIM domain 7 [Source:HGNC Symbol;Acc:HGNC:6646]	LMO7
ENSSSCG000000008838	ligand of numb-protein X 1 [Source:HGNC Symbol;Acc:HGNC:6657]	LNX1
ENSSSCG000000001914	lysyl oxidase like 1 [Source:HGNC Symbol;Acc:HGNC:6665]	LOXL1
ENSSSCG000000009021	LPS responsive beige-like anchor protein [Source:HGNC Symbol;Acc:HGNC:1742]	LRBA
ENSSSCG00000016542	leucine rich repeats and guanylate kinase domain containing	LRGUK
ENSSSCG000000015792	LRP2 binding protein [Source:HGNC Symbol;Acc:HGNC:25434]	LRP2BP
ENSSSCG000000000679	leucine rich repeat containing 23 [Source:HGNC Symbol;Acc:HGNC:19138]	LRRC23
ENSSSCG000000024714	leucine rich repeat containing 34 [Source:HGNC Symbol;Acc:HGNC:28408]	LRRC34
ENSSSCG000000009796	leucine rich repeat containing 43 [Source:HGNC Symbol;Acc:HGNC:28562]	LRRC43
ENSSSCG000000004976	leucine rich repeat containing 49 [Source:HGNC Symbol;Acc:HGNC:25965]	LRRC49
ENSSSCG000000005952	leucine rich repeat containing 6 [Source:HGNC Symbol;Acc:HGNC:16725]	LRRC6
ENSSSCG000000006462	leucine rich repeat containing 71 [Source:HGNC Symbol;Acc:HGNC:26556]	LRRC71
ENSSSCG00000010100	leucine rich repeat containing 74B [Source:HGNC Symbol;Acc:HGNC:34301]	LRRC74B
ENSSSCG000000005081	leucine rich repeat containing 9 [Source:HGNC Symbol;Acc:HGNC:19848]	LRRC9
ENSSSCG000000003784	leucine rich repeats and IQ motif containing 3 [Source:HGNC Symbol;Acc:HGNC:28318]	LRRIQ3
ENSSSCG000000038916	LSM10, U7 small nuclear RNA associated [Source:HGNC Symbol;Acc:HGNC:17562]	LSM10
ENSSSCG000000002368	latent transforming growth factor beta binding protein 2 [Source:HGNC Symbol;Acc:HGNC:6715]	LTBP2
ENSSSCG00000011314	leucine zipper transcription factor like 1 [Source:HGNC Symbol;Acc:HGNC:6741]	LZTFL1
ENSSSCG00000011892	MYCBP associated and testis expressed 1 [Source:HGNC Symbol;Acc:HGNC:24010]	MAATS1
ENSSSCG000000040607	MAF bZIP transcription factor [Source:HGNC Symbol;Acc:HGNC:6776]	MAF
ENSSSCG00000012295	MAGI family member, X-linked [Source:HGNC Symbol;Acc:HGNC:30006]	MAGIX
ENSSSCG00000001042	male germ cell associated kinase [Source:HGNC Symbol;Acc:HGNC:6816]	MAK
ENSSSCG00000011791	mitogen-activated protein kinase kinase kinase 13 [Source:HGNC Symbol;Acc:HGNC:6852]	MAP3K13
ENSSSCG00000015696	mitogen-activated protein kinase kinase kinase 19 [Source:HGNC Symbol;Acc:HGNC:26249]	MAP3K19
ENSSSCG000000035933	mitogen-activated protein kinase 15 [Source:HGNC Symbol;Acc:HGNC:24667]	MAPK15
ENSSSCG000000029185	microtubule associated protein RP/EB family member 3 [Source:HGNC Symbol;Acc:HGNC:6892]	MAPRE3
ENSSSCG00000013895	microtubule associated serine/threonine kinase 3 [Source:HGNC Symbol;Acc:HGNC:19036]	MAST3
ENSSSCG00000013494	megakaryocyte-associated tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:6906]	MATK
ENSSSCG000000003755	mucolipin 2 [Source:HGNC Symbol;Acc:HGNC:13357]	MCOLN2
ENSSSCG000000039424	MAPK regulated corepressor interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:28007]	MCRIP1
ENSSSCG00000016133	malate dehydrogenase 1B [Source:HGNC Symbol;Acc:HGNC:17836]	MDH1B
ENSSSCG000000029102	mediator complex subunit 24 [Source:HGNC Symbol;Acc:HGNC:22963]	MED24
ENSSSCG00000016052	major facilitator superfamily domain containing 6 [Source:HGNC Symbol;Acc:HGNC:24711]	MFSD6
ENSSSCG000000038236	MGAT4 family member D [Source:HGNC Symbol;Acc:HGNC:43619]	MGAT4D
ENSSSCG000000006325	microsomal glutathione S-transferase 3 [Source:HGNC Symbol;Acc:HGNC:7064]	MGST3
ENSSSCG00000016674	MINDY lysine 48 deubiquitinase 4 [Source:HGNC Symbol;Acc:HGNC:21916]	MINDY4
ENSSSCG000000037461	myeloid leukemia factor 1 [Source:HGNC Symbol;Acc:HGNC:7125]	MLF1

ENSSSCG00000008480	MORN repeat containing 2 [Source:HGNC Symbol;Acc:HGNC:30166]	MORN2
ENSSSCG00000009809	MORN repeat-containing protein 3 [Source:RefSeq peptide;Acc:NP_001230638]	MORN3
ENSSSCG00000005529	MORN repeat containing 5 [Source:HGNC Symbol;Acc:HGNC:17841]	MORN5
ENSSSCG00000011070	membrane palmitoylated protein 7 [Source:HGNC Symbol;Acc:HGNC:26542]	MPP7
ENSSSCG00000028126	metallophosphoesterase 1 [Source:HGNC Symbol;Acc:HGNC:15988]	MPPE1
ENSSSCG00000027992	macrophage stimulating 1 receptor [Source:HGNC Symbol;Acc:HGNC:7381]	MST1R
ENSSSCG00000004167	MYB proto-oncogene, transcription factor [Source:HGNC Symbol;Acc:HGNC:7545]	MYB
ENSSSCG00000017563	MYCBP associated protein [Source:HGNC Symbol;Acc:HGNC:19677]	MYCBPAP
ENSSSCG00000027407	myosin heavy chain 14 [Source:HGNC Symbol;Acc:HGNC:23212]	MYH14
ENSSSCG00000033196	myogenesis regulating glycosidase (putative) [Source:HGNC Symbol;Acc:HGNC:19918]	MYORG
ENSSSCG00000011330	neurobeachin like 2 [Source:HGNC Symbol;Acc:HGNC:31928]	NBEAL2
ENSSSCG00000004222	nuclear receptor coactivator 7 [Source:HGNC Symbol;Acc:HGNC:21081]	NCOA7
ENSSSCG00000011090	nebullette [Source:HGNC Symbol;Acc:HGNC:16932]	NEBL
ENSSSCG00000004919	neural precursor cell expressed, developmentally down-regulated 4-like, E3 ubiquitin protein ligase	NEDD4L
ENSSSCG00000009714	NIMA related kinase 1 [Source:HGNC Symbol;Acc:HGNC:7744]	NEK1
ENSSSCG00000011217	NIMA related kinase 10 [Source:HGNC Symbol;Acc:HGNC:18592]	NEK10
ENSSSCG00000011181	NIMA related kinase 11 [Source:HGNC Symbol;Acc:HGNC:18593]	NEK11
ENSSSCG00000009380	NIMA related kinase 5 [Source:HGNC Symbol;Acc:HGNC:7748]	NEK5
ENSSSCG00000004856	nuclear factor of activated T-cells, cytoplasmic 1 [Source:RefSeq peptide;Acc:NP_999326]	NFATC1
ENSSSCG00000005190	nuclear factor I B [Source:HGNC Symbol;Acc:HGNC:7785]	NFIB
ENSSSCG00000004149	NHS like 1 [Source:HGNC Symbol;Acc:HGNC:21021]	NHSL1
ENSSSCG00000037950	NIPA like domain containing 1 [Source:HGNC Symbol;Acc:HGNC:27194]	NIPAL1
ENSSSCG00000027465	neuroligin 3 [Source:HGNC Symbol;Acc:HGNC:14289]	NLGN3
ENSSSCG00000006294	NME/NM23 family member 7 [Source:HGNC Symbol;Acc:HGNC:20461]	NME7
ENSSSCG00000037044	NME/NM23 family member 9 [Source:HGNC Symbol;Acc:HGNC:21343]	NME9
ENSSSCG00000015557	nicotinamide nucleotide adenylyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:16789]	NMNAT2
ENSSSCG00000005272	nicotinamide riboside kinase 1 [Source:HGNC Symbol;Acc:HGNC:26057]	NMRK1
ENSSSCG00000007336	neuronatin [Source:HGNC Symbol;Acc:HGNC:7860]	NNAT
ENSSSCG00000010266	Sus scrofa neuropeptide FF receptor 1 (NPFFR1), mRNA.	NPFFR1
ENSSSCG00000008111	nephrocystin 1 [Source:HGNC Symbol;Acc:HGNC:7905]	NPHP1
ENSSSCG00000021082	neuregulin 2 [Source:HGNC Symbol;Acc:HGNC:7998]	NRG2
ENSSSCG00000000741	nuclear receptor interacting protein 2 [Source:HGNC Symbol;Acc:HGNC:23078]	NRIP2
ENSSSCG00000024496	NOP2/Sun RNA methyltransferase family member 7 [Source:HGNC Symbol;Acc:HGNC:25857]	NSUN7
ENSSSCG00000035318	nucleoporin 58 [Source:HGNC Symbol;Acc:HGNC:20261]	NUP58
ENSSSCG00000021514	occludin [Source:HGNC Symbol;Acc:HGNC:8104]	OCLN
ENSSSCG00000006936	outer dense fiber of sperm tails 2 like [Source:HGNC Symbol;Acc:HGNC:29225]	ODF2L
ENSSSCG00000000967	outer dense fiber of sperm tails 3B [Source:HGNC Symbol;Acc:HGNC:34388]	ODF3B
ENSSSCG00000009783	2-oxoglutarate and iron dependent oxygenase domain containing 2	OGFOD2
ENSSSCG00000031228	nociceptin receptor [Source:RefSeq peptide;Acc:NP_999341]	OPRL1
ENSSSCG00000036709	organic solute carrier partner 1 [Source:HGNC Symbol;Acc:HGNC:29971]	OSCP1
ENSSSCG00000038153	parkin coregulated [Source:HGNC Symbol;Acc:HGNC:19152]	PACRG
ENSSSCG00000010437	3'-phosphoadenosine 5'-phosphosulfate synthase 2 [Source:HGNC Symbol;Acc:HGNC:8604]	PAPSS2
ENSSSCG00000025876	phenazine biosynthesis like protein domain containing [Source:HGNC Symbol;Acc:HGNC:23301]	PBLD
ENSSSCG00000033765	protocadherin gamma subfamily A, 3 [Source:HGNC Symbol;Acc:HGNC:8701]	PCDHGA3
ENSSSCG00000005082	pecanex homolog 4 [Source:HGNC Symbol;Acc:HGNC:20349]	PCNX4
ENSSSCG00000005785	proprotein convertase subtilisin/kexin type 6 [Source:HGNC Symbol;Acc:HGNC:8569]	PCSK6
ENSSSCG00000008908	phosducin like 2 [Source:HGNC Symbol;Acc:HGNC:29524]	PDCL2
ENSSSCG00000027710	PDZ domain containing 3 [Source:HGNC Symbol;Acc:HGNC:19891]	PDZD3
ENSSSCG00000033735	PPARGC1 and ESRR induced regulator, muscle 1 [Source:HGNC Symbol;Acc:HGNC:28208]	PERM1
ENSSSCG00000011439	PHD finger protein 7 [Source:HGNC Symbol;Acc:HGNC:18458]	PHF7
ENSSSCG00000015031	PIH1 domain containing 2 [Source:HGNC Symbol;Acc:HGNC:25210]	PIH1D2
ENSSSCG00000012558	PIH1 domain containing 3 [Source:HGNC Symbol;Acc:HGNC:28570]	PIH1D3
ENSSSCG00000000528	plakophilin 2 [Source:HGNC Symbol;Acc:HGNC:9024]	PKP2
ENSSSCG00000029811	phospholipase C like 2 [Source:HGNC Symbol;Acc:HGNC:9064]	PLCL2
ENSSSCG00000015281	pleckstrin homology domain containing A6 [Source:HGNC Symbol;Acc:HGNC:17053]	PLEKHA6
ENSSSCG00000013382	pleckstrin homology domain containing A7 [Source:HGNC Symbol;Acc:HGNC:27049]	PLEKHA7
ENSSSCG00000035733	plexin B2 [Source:HGNC Symbol;Acc:HGNC:9104]	PLXNB2
ENSSSCG00000029002	paroxysmal nonkinesigenic dyskinesia [Source:HGNC Symbol;Acc:HGNC:9153]	PNKD
ENSSSCG00000013572	patatin like phospholipase domain containing 6 [Source:HGNC Symbol;Acc:HGNC:16268]	PNPLA6
ENSSSCG00000014598	PPFIA binding protein 2 [Source:HGNC Symbol;Acc:HGNC:9250]	PPFIBP2
ENSSSCG00000004413	peptidylprolyl isomerase like 6 [Source:HGNC Symbol;Acc:HGNC:21557]	PPIL6
ENSSSCG00000004704	diphosphoinositol pentakisphosphate kinase 1 [Source:HGNC Symbol;Acc:HGNC:29023]	PPIP5K1
ENSSSCG00000028976	protein phosphatase 2 regulatory subunit Bbeta [Source:HGNC Symbol;Acc:HGNC:9305]	PPP2R2B

ENSSSCG00000032622	protein phosphatase 3 catalytic subunit gamma [Source:HGNC Symbol;Acc:HGNC:9316]	PPP3CC
ENSSSCG0000003256	protein kinase C gamma [Source:HGNC Symbol;Acc:HGNC:9402]	PRKCG
ENSSSCG00000026152	protein kinase D2 [Source:HGNC Symbol;Acc:HGNC:17293]	PRKD2
ENSSSCG00000013584	proline rich 36 [Source:HGNC Symbol;Acc:HGNC:26172]	PRR36
ENSSSCG00000040698	proline rich 7, synaptic [Source:HGNC Symbol;Acc:HGNC:28130]	PRR7
ENSSSCG00000013313	proline rich and Gla domain 4 [Source:HGNC Symbol;Acc:HGNC:30799]	PRRG4
ENSSSCG00000028587	protease, serine 54 [Source:HGNC Symbol;Acc:HGNC:26336]	PRSS54
ENSSSCG00000010281	prosaposin [Source:HGNC Symbol;Acc:HGNC:9498]	PSAP
ENSSSCG00000031781	proteasome subunit beta type-10 [Source:RefSeq peptide;Acc:NP_001038030]	PSMB10
ENSSSCG00000009664	protein tyrosine kinase 2 beta [Source:HGNC Symbol;Acc:HGNC:9612]	PTK2B
ENSSSCG00000026655	protein tyrosine phosphatase, non-receptor type 13 [Source:HGNC Symbol;Acc:HGNC:9646]	PTPN13
ENSSSCG00000025537	protein tyrosine phosphatase, non-receptor type 6 [Source:HGNC Symbol;Acc:HGNC:9658]	PTPN6
ENSSSCG00000035849	protein tyrosine phosphatase, receptor type F [Source:HGNC Symbol;Acc:HGNC:9670]	PTPRF
ENSSSCG00000031716	protein tyrosine phosphatase, receptor type Q [Source:HGNC Symbol;Acc:HGNC:9679]	PTPRQ
ENSSSCG00000015428	pseudouridylate synthase 7 (putative) [Source:HGNC Symbol;Acc:HGNC:26033]	PUS7
ENSSSCG00000011670	2-phosphoxylase phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:26303]	PXYLP1
ENSSSCG00000040825	PYM homolog 1, exon junction complex associated factor	PYM1
ENSSSCG00000008491	glutaminyl-peptide cyclotransferase [Source:HGNC Symbol;Acc:HGNC:9753]	QPCT
ENSSSCG00000017747	RAB11 family interacting protein 4 [Source:HGNC Symbol;Acc:HGNC:30267]	RAB11FIP4
ENSSSCG00000038693	RAB19, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:19982]	RAB19
ENSSSCG00000004612	RAB27A, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:9766]	RAB27A
ENSSSCG00000004114	ras-related protein Rab-32 [Source:RefSeq peptide;Acc:NP_001116648]	RAB32
ENSSSCG00000010048	RAB36, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:9775]	RAB36
ENSSSCG00000000500	RAB3A interacting protein [Source:HGNC Symbol;Acc:HGNC:16508]	RAB3IP
ENSSSCG00000015499	RAB GTPase activating protein 1 like [Source:HGNC Symbol;Acc:HGNC:24663]	RABGAP1L
ENSSSCG00000009824	RAD9 checkpoint clamp component B [Source:HGNC Symbol;Acc:HGNC:21700]	RAD9B
ENSSSCG00000008952	Ras association domain family member 6 [Source:HGNC Symbol;Acc:HGNC:20796]	RASSF6
ENSSSCG00000038001	ribokinase [Source:HGNC Symbol;Acc:HGNC:30325]	RBKS
ENSSSCG00000007504	RNA binding motif protein 38 [Source:HGNC Symbol;Acc:HGNC:15818]	RBM38
ENSSSCG00000015509	ring finger and WD repeat domain 2 [Source:HGNC Symbol;Acc:HGNC:17440]	RFWD2
ENSSSCG00000035403	regulatory factor X2 [Source:HGNC Symbol;Acc:HGNC:9983]	RFX2
ENSSSCG00000006069	regulator of G protein signaling 22 [Source:HGNC Symbol;Acc:HGNC:24499]	RGS22
ENSSSCG00000033093	regulator of G protein signaling 6 [Source:HGNC Symbol;Acc:HGNC:10002]	RGS6
ENSSSCG00000010840	regulator of G protein signaling 7 [Source:HGNC Symbol;Acc:HGNC:10003]	RGS7
ENSSSCG00000012326	RIB43A domain with coiled-coils 1 [Source:HGNC Symbol;Acc:HGNC:26537]	RIBC1
ENSSSCG00000024718	RIB43A domain with coiled-coils 2 [Source:HGNC Symbol;Acc:HGNC:13241]	RIBC2
ENSSSCG00000028004	Ras and Rab interactor 2 [Source:HGNC Symbol;Acc:HGNC:18750]	RIN2
ENSSSCG00000033276	rippy transcriptional repressor 1 [Source:HGNC Symbol;Acc:HGNC:25117]	RIPPLY1
ENSSSCG00000013765	relaxin 3 [Source:HGNC Symbol;Acc:HGNC:17135]	RLN3
ENSSSCG00000015549	2-5A-dependent ribonuclease [Source:RefSeq peptide;Acc:NP_001090981]	RNASEL
ENSSSCG00000016414	ring finger protein 32 [Source:HGNC Symbol;Acc:HGNC:17118]	RNF32
ENSSSCG00000014056	ring finger protein 44 [Source:HGNC Symbol;Acc:HGNC:19180]	RNF44
ENSSSCG00000007932	rogdi homolog [Source:HGNC Symbol;Acc:HGNC:29478]	ROGDI
ENSSSCG000000022306	rhopilin associated tail protein 1 like [Source:HGNC Symbol;Acc:HGNC:24060]	ROPN1L
ENSSSCG00000026427	RAR related orphan receptor C [Source:HGNC Symbol;Acc:HGNC:10260]	RORC
ENSSSCG00000031652	RPGRIP1 like [Source:HGNC Symbol;Acc:HGNC:29168]	RPGRIP1L
ENSSSCG00000003648	Ras related GTP binding C [Source:HGNC Symbol;Acc:HGNC:19902]	RRAGC
ENSSSCG00000040224	radial spoke head 1 homolog [Source:HGNC Symbol;Acc:HGNC:12371]	RSPH1
ENSSSCG00000010047	radial spoke head 14 homolog [Source:HGNC Symbol;Acc:HGNC:13437]	RSPH14
ENSSSCG00000040714	radial spoke head 6 homolog A [Source:HGNC Symbol;Acc:HGNC:14241]	RSPH6A
ENSSSCG00000032007	reticulon 4 [Source:HGNC Symbol;Acc:HGNC:14085]	RTN4
ENSSSCG00000003152	RuvB like AAA ATPase 2 [Source:HGNC Symbol;Acc:HGNC:10475]	RUVBL2
ENSSSCG00000002400	sterile alpha motif domain containing 15 [Source:HGNC Symbol;Acc:HGNC:18631]	SAMD15
ENSSSCG00000005740	sarcosine dehydrogenase [Source:HGNC Symbol;Acc:HGNC:10536]	SARDH
ENSSSCG00000031963	stabilizer of axonemal microtubules 2 [Source:HGNC Symbol;Acc:HGNC:33727]	SAXO2
ENSSSCG00000007842	short chain dehydrogenase/reductase family 42E, member 2	SDR42E2
ENSSSCG00000010008	SEC14 like lipid binding 3 [Source:HGNC Symbol;Acc:HGNC:18655]	SEC14L3
ENSSSCG00000006495	semaphorin 4A [Source:HGNC Symbol;Acc:HGNC:10729]	SEMA4A
ENSSSCG00000012619	septin 6 [Source:HGNC Symbol;Acc:HGNC:15848]	SEPT6
ENSSSCG00000001011	serpin family B member 1 [Source:HGNC Symbol;Acc:HGNC:3311]	SERPINB1
ENSSSCG00000011737	serpin family I member 2 [Source:HGNC Symbol;Acc:HGNC:8945]	SERPINI2
ENSSSCG00000010589	sideroflexin 2 [Source:HGNC Symbol;Acc:HGNC:16086]	SFXN2
ENSSSCG00000010433	sphingomyelin synthase 1 [Source:HGNC Symbol;Acc:HGNC:29799]	SGMS1

ENSSSCG00000017829	small G protein signaling modulator 2 [Source:HGNC Symbol;Acc:HGNC:29026]	SGSM2
ENSSSCG00000022380	SH2 domain containing 3A [Source:HGNC Symbol;Acc:HGNC:16885]	SH2D3A
ENSSSCG00000023273	SH3 and SYLF domain containing 1 [Source:HGNC Symbol;Acc:HGNC:29546]	SH3YL1
ENSSSCG00000033043	SH3 and multiple ankyrin repeat domains 2 [Source:HGNC Symbol;Acc:HGNC:14295]	SHANK2
ENSSSCG00000024389	single Ig IL-1-related receptor [Source:RefSeq peptide;Acc:NP_001302618]	SIGIRR
ENSSSCG00000002332	signal induced proliferation associated 1 like 1 [Source:HGNC Symbol;Acc:HGNC:20284]	SIPA1L1
ENSSSCG00000016708	src kinase associated phosphoprotein 2 [Source:HGNC Symbol;Acc:HGNC:15687]	SKAP2
ENSSSCG00000007437	solute carrier family 12 member 5 [Source:HGNC Symbol;Acc:HGNC:13818]	SLC12A5
ENSSSCG00000017925	solute carrier family 16 member 11 [Source:HGNC Symbol;Acc:HGNC:23093]	SLC16A11
ENSSSCG00000010455	solute carrier family 16 member 12 [Source:HGNC Symbol;Acc:HGNC:23094]	SLC16A12
ENSSSCG00000017926	solute carrier family 16 member 13 [Source:HGNC Symbol;Acc:HGNC:31037]	SLC16A13
ENSSSCG00000029458	solute carrier family 16 member 2 [Source:HGNC Symbol;Acc:HGNC:10923]	SLC16A2
ENSSSCG00000017215	solute carrier family 16 member 5 [Source:HGNC Symbol;Acc:HGNC:10926]	SLC16A5
ENSSSCG00000021968	solute carrier family 19 member 3 [Source:HGNC Symbol;Acc:HGNC:16266]	SLC19A3
ENSSSCG00000012660	solute carrier family 25 member 14 [Source:HGNC Symbol;Acc:HGNC:10984]	SLC25A14
ENSSSCG00000002520	solute carrier family 25 member 29 [Source:HGNC Symbol;Acc:HGNC:20116]	SLC25A29
ENSSSCG00000030167	solute carrier family 25 member 39 [Source:HGNC Symbol;Acc:HGNC:24279]	SLC25A39
ENSSSCG00000039045	solute carrier family 26 member 2 [Source:HGNC Symbol;Acc:HGNC:10994]	SLC26A2
ENSSSCG00000004172	solute carrier family 2 member 12 [Source:HGNC Symbol;Acc:HGNC:18067]	SLC2A12
ENSSSCG00000030343	solute carrier family 38 member 9 [Source:HGNC Symbol;Acc:HGNC:26907]	SLC38A9
ENSSSCG00000009169	solute carrier family 39 member 8 [Source:HGNC Symbol;Acc:HGNC:20862]	SLC39A8
ENSSSCG00000001825	solute carrier family 41 member 3 [Source:HGNC Symbol;Acc:HGNC:31046]	SLC41A3
ENSSSCG00000005425	solute carrier family 44 member 1 [Source:HGNC Symbol;Acc:HGNC:18798]	SLC44A1
ENSSSCG00000001419	solute carrier family 44 member 4 [Source:HGNC Symbol;Acc:HGNC:13941]	SLC44A4
ENSSSCG00000008943	solute carrier family 4 member 4 [Source:HGNC Symbol;Acc:HGNC:11030]	SLC4A4
ENSSSCG00000028060	solute carrier family 4 member 8 [Source:HGNC Symbol;Acc:HGNC:11034]	SLC4A8
ENSSSCG00000022649	solute carrier family 7 member 11 [Source:HGNC Symbol;Acc:HGNC:11059]	SLC7A11
ENSSSCG00000002041	solute carrier family 7 member 7 [Source:HGNC Symbol;Acc:HGNC:11065]	SLC7A7
ENSSSCG00000012266	solute carrier family 9 member A7 [Source:HGNC Symbol;Acc:HGNC:17123]	SLC9A7
ENSSSCG00000038844	small integral membrane protein 5 [Source:HGNC Symbol;Acc:HGNC:40030]	SMIM5
ENSSSCG00000002764	sphingomyelin phosphodiesterase 3 [Source:HGNC Symbol;Acc:HGNC:14240]	SMPD3
ENSSSCG00000037598	sorting nexin 10 [Source:HGNC Symbol;Acc:HGNC:14974]	SNX10
ENSSSCG00000036679	sorbin and SH3 domain containing 2 [Source:HGNC Symbol;Acc:HGNC:24098]	SORBS2
ENSSSCG00000008478	SOS Ras/Rac guanine nucleotide exchange factor 1 [Source:HGNC Symbol;Acc:HGNC:11187]	SOS1
ENSSSCG00000034191	SRY-box 6 [Source:HGNC Symbol;Acc:HGNC:16421]	SOX6
ENSSSCG00000015197	sperm autoantigenic protein 17 [Source:HGNC Symbol;Acc:HGNC:11210]	SPA17
ENSSSCG00000022250	sperm acrosome associated 9 [Source:HGNC Symbol;Acc:HGNC:1367]	SPACA9
ENSSSCG00000027587	sperm associated antigen 1 [Source:HGNC Symbol;Acc:HGNC:11212]	SPAG1
ENSSSCG00000006726	sperm associated antigen 17 [Source:HGNC Symbol;Acc:HGNC:26620]	SPAG17
ENSSSCG00000011080	Sus scrofa sperm associated antigen 6 (SPAG6), mRNA.	SPAG6
ENSSSCG00000033228	sperm associated antigen 9 [Source:HGNC Symbol;Acc:HGNC:14524]	SPAG9
ENSSSCG00000029778	spermatogenesis associated 17 [Source:HGNC Symbol;Acc:HGNC:25184]	SPATA17
ENSSSCG00000008834	spermatogenesis associated 18 [Source:HGNC Symbol;Acc:HGNC:29579]	SPATA18
ENSSSCG00000014348	spermatogenesis associated 24 [Source:HGNC Symbol;Acc:HGNC:27322]	SPATA24
ENSSSCG00000015767	spermatogenesis associated 4 [Source:HGNC Symbol;Acc:HGNC:17333]	SPATA4
ENSSSCG00000005221	spermatogenesis associated 6 like [Source:HGNC Symbol;Acc:HGNC:25472]	SPATA6L
ENSSSCG00000039903	spermatogenesis associated serine rich 1 [Source:HGNC Symbol;Acc:HGNC:22957]	SPATS1
ENSSSCG00000007149	Sus scrofa sperm flagellar 1 (SPEF1), mRNA. [Source:RefSeq mRNA;Acc:NM_001195369]	SPEF1
ENSSSCG000000040786	spectrin beta, non-erythrocytic 1 [Source:HGNC Symbol;Acc:HGNC:11275]	SPTBN1
ENSSSCG00000007072	serine palmitoyltransferase long chain base subunit 3 [Source:HGNC Symbol;Acc:HGNC:16253]	SPTLC3
ENSSSCG00000033624	SLIT-ROBO Rho GTPase activating protein 3 [Source:HGNC Symbol;Acc:HGNC:19744]	SRGAP3
ENSSSCG00000038730	sperm specific antigen 2 [Source:HGNC Symbol;Acc:HGNC:11319]	SSFA2
ENSSSCG00000034493	ST3 beta-galactoside alpha-2,3-sialyltransferase 6 [Source:HGNC Symbol;Acc:HGNC:18080]	ST3GAL6
ENSSSCG00000013506	signal transducing adaptor family member 2 [Source:HGNC Symbol;Acc:HGNC:30430]	STAP2
ENSSSCG00000034942	steroidogenic acute regulatory protein, mitochondrial precursor	STAR
ENSSSCG00000014818	StAR related lipid transfer domain containing 10 [Source:HGNC Symbol;Acc:HGNC:10666]	STARD10
ENSSSCG00000016214	serine/threonine kinase 16 [Source:HGNC Symbol;Acc:HGNC:11394]	STK16
ENSSSCG00000001913	stomatin like 1 [Source:HGNC Symbol;Acc:HGNC:14560]	STOML1
ENSSSCG00000009366	stomatin like 3 [Source:HGNC Symbol;Acc:HGNC:19420]	STOML3
ENSSSCG00000002412	stonin 2 [Source:HGNC Symbol;Acc:HGNC:30652]	STON2
ENSSSCG00000005582	spermatid perinuclear RNA binding protein [Source:HGNC Symbol;Acc:HGNC:16462]	STRBP
ENSSSCG00000023280	Sus scrofa sulfotransferase family 2B member 1 (SULT2B1), mRNA.	SULT2B1
ENSSSCG00000005110	spectrin repeat containing nuclear envelope protein 2 [Source:HGNC Symbol;Acc:HGNC:17084]	SYNE2

ENSSSCG00000003222	synaptotagmin 3 [Source:HGNC Symbol;Acc:HGNC:11511]	SYT3
ENSSSCG00000022224	TATA-box binding protein associated factor 8 [Source:HGNC Symbol;Acc:HGNC:17300]	TAF8
ENSSSCG00000008761	TBC1 domain family member 19 [Source:HGNC Symbol;Acc:HGNC:25624]	TBC1D19
ENSSSCG00000005376	TBC1 domain family member 2 [Source:HGNC Symbol;Acc:HGNC:18026]	TBC1D2
ENSSSCG00000023788	TBC1 domain family member 30 [Source:HGNC Symbol;Acc:HGNC:29164]	TBC1D30
ENSSSCG00000001705	t-complex-associated-testis-expressed 1 [Source:HGNC Symbol;Acc:HGNC:11693]	TCTE1
ENSSSCG000000031352	Tctex1 domain containing 1 [Source:HGNC Symbol;Acc:HGNC:26882]	TCTEX1D1
ENSSSCG000000008820	tec protein tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:11719]	TEC
ENSSSCG000000017884	tektin 1 [Source:HGNC Symbol;Acc:HGNC:15534]	TEKT1
ENSSSCG000000003633	tektin 2 [Source:HGNC Symbol;Acc:HGNC:11725]	TEKT2
ENSSSCG000000018028	tektin 3 [Source:HGNC Symbol;Acc:HGNC:14293]	TEKT3
ENSSSCG000000035104	telomere repeat binding bouquet formation protein 1 [Source:HGNC Symbol;Acc:HGNC:26675]	TERB1
ENSSSCG000000017118	telomerase reverse transcriptase [Source:RefSeq peptide;Acc:NP_001231229]	TERT
ENSSSCG000000009332	testis expressed 26 [Source:HGNC Symbol;Acc:HGNC:28622]	TEX26
ENSSSCG000000004602	testis expressed 9 [Source:HGNC Symbol;Acc:HGNC:29585]	TEX9
ENSSSCG000000015732	transcription factor CP2 like 1 [Source:HGNC Symbol;Acc:HGNC:17925]	TFCP2L1
ENSSSCG000000036033	thyroid hormone receptor beta [Source:HGNC Symbol;Acc:HGNC:11799]	THRB
ENSSSCG000000038186	tigger transposable element derived 4 [Source:HGNC Symbol;Acc:HGNC:18335]	TIGD4
ENSSSCG000000033000	TIMP metalloproteinase inhibitor 4 [Source:HGNC Symbol;Acc:HGNC:11823]	TIMP4
ENSSSCG000000024088	talin 2 [Source:HGNC Symbol;Acc:HGNC:15447]	TLN2
ENSSSCG000000031112	transmembrane 4 L six family member 5 [Source:HGNC Symbol;Acc:HGNC:11857]	TM4SF5
ENSSSCG000000005266	transmembrane channel like 1 [Source:HGNC Symbol;Acc:HGNC:16513]	TMC1
ENSSSCG000000027528	transmembrane protein 107 [Source:HGNC Symbol;Acc:HGNC:28128]	TMEM107
ENSSSCG000000031876	transmembrane protein 159 [Source:HGNC Symbol;Acc:HGNC:30136]	TMEM159
ENSSSCG000000016444	transmembrane protein 176B [Source:HGNC Symbol;Acc:HGNC:29596]	TMEM176B
ENSSSCG000000011751	transmembrane protein 212 [Source:HGNC Symbol;Acc:HGNC:34295]	TMEM212
ENSSSCG000000014196	transmembrane protein 232 [Source:HGNC Symbol;Acc:HGNC:37270]	TMEM232
ENSSSCG000000039678	transmembrane protein 269 [Source:HGNC Symbol;Acc:HGNC:52381]	TMEM269
ENSSSCG000000006108	transmembrane protein 67 [Source:HGNC Symbol;Acc:HGNC:28396]	TMEM67
ENSSSCG000000013360	transmembrane protein 86A [Source:HGNC Symbol;Acc:HGNC:26890]	TMEM86A
ENSSSCG000000034013	transmembrane protein 88B [Source:HGNC Symbol;Acc:HGNC:37099]	TMEM88B
ENSSSCG000000038710	transmembrane protease, serine 13 [Source:HGNC Symbol;Acc:HGNC:29808]	TMPRSS13
ENSSSCG000000011849	tyrosine kinase non receptor 2 [Source:HGNC Symbol;Acc:HGNC:19297]	TNK2
ENSSSCG000000024505	troponin I3, cardiac type [Source:HGNC Symbol;Acc:HGNC:11947]	TNNI3
ENSSSCG000000027765	TOG array regulator of axonemal microtubules 1 [Source:HGNC Symbol;Acc:HGNC:19959]	TOGARAM1
ENSSSCG000000017601	target of myb1 like 1 membrane trafficking protein [Source:HGNC Symbol;Acc:HGNC:11983]	TOM1L1
ENSSSCG000000021966	DNA topoisomerase II binding protein 1 [Source:HGNC Symbol;Acc:HGNC:17008]	TOPBP1
ENSSSCG000000025685	tumor protein p73 [Source:HGNC Symbol;Acc:HGNC:12003]	TP73
ENSSSCG000000013849	tropomyosin 4 [Source:HGNC Symbol;Acc:HGNC:12013]	TPM4
ENSSSCG000000032698	tubulin polymerization promoting protein [Source:HGNC Symbol;Acc:HGNC:24164]	TPPP
ENSSSCG000000035983	tubulin polymerization promoting protein family member 3	TPPP3
ENSSSCG000000032721	TRAF3 interacting protein 3 [Source:HGNC Symbol;Acc:HGNC:30766]	TRAF3IP3
ENSSSCG000000022512	T-cell receptor delta constant [Source:HGNC Symbol;Acc:HGNC:12253]	TRDC
ENSSSCG000000035153	tripartite motif containing 38 [Source:HGNC Symbol;Acc:HGNC:10059]	TRIM38
ENSSSCG000000027684	E3 ubiquitin-protein ligase TRIM63 [Source:RefSeq peptide;Acc:NP_001171685]	TRIM63
ENSSSCG000000037835	tripartite motif containing 7 [Source:HGNC Symbol;Acc:HGNC:16278]	TRIM7
ENSSSCG000000030241	TSC22 domain family member 3 [Source:HGNC Symbol;Acc:HGNC:3051]	TSC22D3
ENSSSCG000000008186	testis specific 10 [Source:HGNC Symbol;Acc:HGNC:14927]	TSGA10
ENSSSCG000000002767	translin associated factor X interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:18586]	TSNAXIP1
ENSSSCG000000003908	tetraspanin 1 [Source:HGNC Symbol;Acc:HGNC:20657]	TSPAN1
ENSSSCG000000015047	tetratricopeptide repeat domain 12 [Source:HGNC Symbol;Acc:HGNC:23700]	TTC12
ENSSSCG000000011263	tetratricopeptide repeat domain 21A [Source:HGNC Symbol;Acc:HGNC:30761]	TTC21A
ENSSSCG000000016825	tetratricopeptide repeat domain 23 like [Source:HGNC Symbol;Acc:HGNC:26355]	TTC23L
ENSSSCG000000016511	tetratricopeptide repeat domain 26 [Source:HGNC Symbol;Acc:HGNC:21882]	TTC26
ENSSSCG000000002428	tetratricopeptide repeat domain 8 [Source:HGNC Symbol;Acc:HGNC:20087]	TTC8
ENSSSCG000000006733	transcription termination factor 2 [Source:HGNC Symbol;Acc:HGNC:12398]	TTF2
ENSSSCG000000003336	tubulin tyrosine ligase like 10 [Source:HGNC Symbol;Acc:HGNC:26693]	TTL10
ENSSSCG000000017542	tubulin tyrosine ligase like 6 [Source:HGNC Symbol;Acc:HGNC:26664]	TTL6
ENSSSCG000000000982	tubulin tyrosine ligase like 8 [Source:HGNC Symbol;Acc:HGNC:34000]	TTL8
ENSSSCG000000007236	tubulin tyrosine ligase like 9 [Source:HGNC Symbol;Acc:HGNC:16118]	TTL9
ENSSSCG000000006620	tuftelin 1 [Source:HGNC Symbol;Acc:HGNC:12422]	TUFT1
ENSSSCG000000000737	tubby like protein 3 [Source:HGNC Symbol;Acc:HGNC:12425]	TULP3
ENSSSCG000000011393	ubiquitin like modifier activating enzyme 7 [Source:HGNC Symbol;Acc:HGNC:12471]	UBA7

ENSSSCG00000023423	UBA like domain containing 2 [Source:HGNC Symbol;Acc:HGNC:28438]	UBALD2
ENSSSCG00000003810	ubiquitin conjugating enzyme E2 U (putative) [Source:HGNC Symbol;Acc:HGNC:28559]	UBE2U
ENSSSCG000000021005	ubiquilin 1 [Source:HGNC Symbol;Acc:HGNC:12508]	UBQLN1
ENSSSCG000000003498	UBX domain protein 10 [Source:HGNC Symbol;Acc:HGNC:26354]	UBXN10
ENSSSCG000000033546	UBX domain protein 11 [Source:HGNC Symbol;Acc:HGNC:30600]	UBXN11
ENSSSCG000000008368	UDP-glucose pyrophosphorylase 2 [Source:HGNC Symbol;Acc:HGNC:12527]	UGP2
ENSSSCG000000025408	unc-51 like kinase 4 [Source:HGNC Symbol;Acc:HGNC:15784]	ULK4
ENSSSCG000000015100	uroplakin 2 [Source:HGNC Symbol;Acc:HGNC:12579]	UPK2
ENSSSCG000000001823	urocanate hydratase 1 [Source:HGNC Symbol;Acc:HGNC:26444]	UROC1
ENSSSCG000000015120	ubiquitin specific peptidase 2 [Source:HGNC Symbol;Acc:HGNC:12618]	USP2
ENSSSCG000000017995	ubiquitin specific peptidase 43 [Source:HGNC Symbol;Acc:HGNC:20072]	USP43
ENSSSCG000000010302	ubiquitin specific peptidase 54 [Source:HGNC Symbol;Acc:HGNC:23513]	USP54
ENSSSCG000000000703	vesicle associated membrane protein 1 [Source:HGNC Symbol;Acc:HGNC:12642]	VAMP1
ENSSSCG000000014136	versican [Source:HGNC Symbol;Acc:HGNC:2464]	VCAN
ENSSSCG000000017915	vitelline membrane outer layer protein 1 homolog precursor	VMO1
ENSSSCG000000025266	von Willebrand factor A domain containing 3A [Source:HGNC Symbol;Acc:HGNC:27088]	VWA3A
ENSSSCG000000033394	von Willebrand factor A domain containing 3B [Source:HGNC Symbol;Acc:HGNC:28385]	VWA3B
ENSSSCG000000004008	WD repeat domain 27 [Source:HGNC Symbol;Acc:HGNC:21248]	WDR27
ENSSSCG000000020987	WD repeat domain 31 [Source:HGNC Symbol;Acc:HGNC:21421]	WDR31
ENSSSCG000000005655	WD repeat domain 34 [Source:HGNC Symbol;Acc:HGNC:28296]	WDR34
ENSSSCG000000011738	WD repeat domain 49 [Source:HGNC Symbol;Acc:HGNC:26587]	WDR49
ENSSSCG000000038486	WD repeat domain 60 [Source:HGNC Symbol;Acc:HGNC:21862]	WDR60
ENSSSCG000000006950	WD repeat domain 63 [Source:HGNC Symbol;Acc:HGNC:30711]	WDR63
ENSSSCG000000009802	WD repeat domain 66 [Source:HGNC Symbol;Acc:HGNC:28506]	WDR66
ENSSSCG000000022305	WD repeat domain 78 [Source:HGNC Symbol;Acc:HGNC:26252]	WDR78
ENSSSCG000000007991	WD repeat domain 90 [Source:HGNC Symbol;Acc:HGNC:26960]	WDR90
ENSSSCG000000005490	whirlin [Source:HGNC Symbol;Acc:HGNC:16361]	WHRN
ENSSSCG000000006298	lymphotactin precursor [Source:RefSeq peptide;Acc:NP_001127817]	XCL1
ENSSSCG000000006191	XK related 9 [Source:HGNC Symbol;Acc:HGNC:20937]	XKR9
ENSSSCG000000012487	XK related, X-linked [Source:HGNC Symbol;Acc:HGNC:29845]	XKRX
ENSSSCG000000015537	xenotropic and polytropic retrovirus receptor 1 [Source:HGNC Symbol;Acc:HGNC:12827]	XPR1
ENSSSCG000000021702	X-ray radiation resistance associated 1 [Source:HGNC Symbol;Acc:HGNC:18868]	XRRA1
ENSSSCG000000023393	zinc finger B-box domain containing [Source:HGNC Symbol;Acc:HGNC:26245]	ZBBX
ENSSSCG000000002380	zinc finger C2HC-type containing 1C [Source:HGNC Symbol;Acc:HGNC:20354]	ZC2HC1C
ENSSSCG000000002778	zinc finger DHHC-type containing 1 [Source:HGNC Symbol;Acc:HGNC:17916]	ZDHHC1
ENSSSCG000000010402	zinc finger AN1-type containing 4 [Source:HGNC Symbol;Acc:HGNC:23504]	ZFAND4
ENSSSCG000000033860	zinc finger matrin-type 3 [Source:HGNC Symbol;Acc:HGNC:29983]	ZMAT3
ENSSSCG000000011408	zinc finger MYND-type containing 10 [Source:HGNC Symbol;Acc:HGNC:19412]	ZMYND10
ENSSSCG000000003967	zinc finger MYND-type containing 12 [Source:HGNC Symbol;Acc:HGNC:21192]	ZMYND12
ENSSSCG000000007958	zinc finger protein 174 [Source:HGNC Symbol;Acc:HGNC:12963]	ZNF174
ENSSSCG000000023276	zinc finger protein 24 [Source:HGNC Symbol;Acc:HGNC:13032]	ZNF24
ENSSSCG000000030018	zinc finger protein 396 [Source:HGNC Symbol;Acc:HGNC:18824]	ZNF396
ENSSSCG000000040579	zinc finger protein 683 [Source:HGNC Symbol;Acc:HGNC:28495]	ZNF683
ENSSSCG000000001203	zinc finger and SCAN domain containing 9 [Source:HGNC Symbol;Acc:HGNC:12984]	ZSCAN9
ENSSSCG000000016030	zinc finger SWIM-type containing 2 [Source:HGNC Symbol;Acc:HGNC:30990]	ZSWIM2
ENSSSCG000000004263	zinc finger with UFM1 specific peptidase domain [Source:HGNC Symbol;Acc:HGNC:21224]	ZUFSP
ENSSSCG000000011147	aldo-keto reductase family 1, member C-like 1 [Source:RefSeq peptide;Acc:NP_001033715]	
ENSSSCG000000038825	cationic amino acid transporter 3-like [Source:RefSeq peptide;Acc:NP_001231094]	
ENSSSCG000000015664	complement decay-accelerating factor precursor [Source:RefSeq peptide;Acc:NP_998980]	
ENSSSCG000000009578	cyclin-dependent kinase 20 [Source:RefSeq peptide;Acc:NP_001182258]	
ENSSSCG000000017754	galectin-9 isoform 1 [Source:RefSeq peptide;Acc:NP_999097]	
ENSSSCG0000000039731	glutaredoxin-1 [Source:RefSeq peptide;Acc:NP_999398]	
ENSSSCG000000035293	Insulin-like growth factor II Insulin-like growth factor II Preptin	
ENSSSCG000000031086	Lutropin subunit beta [Source:UniProtKB/Swiss-Prot;Acc:P01232]	
ENSSSCG000000035596	mutS protein homolog 5 [Source:RefSeq peptide;Acc:NP_001182287]	
ENSSSCG000000001229	patr class I histocompatibility antigen, A-126 alpha chain-like precursor	
ENSSSCG000000010006	SEC14-like protein 2 [Source:RefSeq peptide;Acc:NP_001185847]	
ENSSSCG000000008421	Sus scrofa luteinizing hormone/choriogonadotropin receptor (LHCGR), mRNA.	
ENSSSCG000000014004	Sus scrofa phospholipid phosphatase 2 (PLPP2), mRNA.	
ENSSSCG000000027792	uncharacterized protein LOC100623156 [Source:RefSeq peptide;Acc:NP_001231588]	

Table S7. Gene Ontology on the DEGs and DSGs

(1) GO analysis on DEGs

Analysis Type: PANTHER Overrepresentation Test (Released 20171205)
 Annotation Version and Release Date: GO Ontology database Released 2018-02-02
 Analyzed List: upload_1 (Sus scrofa)
 Reference List: Sus scrofa (all genes in database)
 Test Type: FISHER

GO biological process complete	REFLIS T (22191)	upload_ 1 (599)	upload_1 (expected)	uplo ad_ 1 (ove r/un der)	upload_1 (fold Enrichme nt)	upload_1 (raw P- value)	upload_1 (FDR)
inner dynein arm assembly (GO:0036159)	10	8	0.27	+	29.64	7.54E-09	3.56E-06
regulation of cilium movement (GO:0003352)	8	6	0.22	+	27.79	8.07E-07	2.42E-04
cilium or flagellum-dependent cell motility (GO:0001539)	12	9	0.32	+	27.79	1.25E-09	8.54E-07
cilium-dependent cell motility (GO:0060285)	11	8	0.3	+	26.94	1.27E-08	5.59E-06
cilium movement involved in cell motility (GO:0060294)	7	5	0.19	+	26.46	8.38E-06	2.19E-03
regulation of cilium beat frequency (GO:0003356)	6	4	0.16	+	24.7	8.75E-05	1.85E-02
axonemal dynein complex assembly (GO:0070286)	20	13	0.54	+	24.08	8.89E-13	7.80E-10
cilium movement (GO:0003341)	34	22	0.92	+	23.97	1.09E-20	1.67E-17
epithelial cilium movement (GO:0003351)	10	6	0.27	+	22.23	2.06E-06	6.02E-04
regulation of microtubule-based movement (GO:0060632)	10	6	0.27	+	22.23	2.06E-06	5.88E-04
axoneme assembly (GO:0035082)	34	20	0.92	+	21.79	2.53E-18	2.83E-15
outer dynein arm assembly (GO:0036158)	12	7	0.32	+	21.61	3.20E-07	1.12E-04
sperm axoneme assembly (GO:0007288)	8	4	0.22	+	18.52	1.98E-04	3.92E-02
motile cilium assembly (GO:0044458)	14	6	0.38	+	15.88	9.10E-06	2.33E-03
microtubule bundle formation (GO:0001578)	50	21	1.35	+	15.56	7.40E-17	7.57E-14
intraciliary transport (GO:0042073)	20	8	0.54	+	14.82	4.25E-07	1.41E-04
protein transport along microtubule (GO:0098840)	21	8	0.57	+	14.11	5.73E-07	1.85E-04
microtubule-based protein transport (GO:0099118)	21	8	0.57	+	14.11	5.73E-07	1.81E-04
cilium organization (GO:0044782)	159	55	4.29	+	12.81	1.30E-38	1.60E-34
cilium assembly (GO:0060271)	148	51	3.99	+	12.77	8.57E-36	5.26E-32
flagellated sperm motility (GO:0030317)	38	12	1.03	+	11.7	4.75E-09	2.54E-06
sperm motility (GO:0097722)	39	12	1.05	+	11.4	6.07E-09	3.11E-06
microtubule-based movement (GO:0007018)	132	38	3.56	+	10.66	1.37E-24	2.81E-21
plasma membrane bounded cell projection assembly (GO:0120031)	184	51	4.97	+	10.27	5.59E-32	2.29E-28
cell projection assembly (GO:0030031)	185	51	4.99	+	10.21	6.96E-32	2.14E-28
determination of left/right symmetry (GO:0007368)	54	14	1.46	+	9.6	2.16E-09	1.39E-06
determination of bilateral symmetry (GO:0009855)	57	14	1.54	+	9.1	3.92E-09	2.29E-06
specification of symmetry (GO:0009799)	57	14	1.54	+	9.1	3.92E-09	2.19E-06
protein complex localization (GO:0031503)	39	9	1.05	+	8.55	3.79E-06	1.06E-03
microtubule-based transport (GO:0099111)	50	9	1.35	+	6.67	2.19E-05	5.50E-03
transport along microtubule (GO:0010970)	50	9	1.35	+	6.67	2.19E-05	5.39E-03
microtubule-based process (GO:0007017)	339	56	9.15	+	6.12	4.37E-25	1.07E-21
organelle assembly (GO:0070925)	352	56	9.5	+	5.89	2.25E-24	3.95E-21
cytoskeleton-dependent intracellular transport (GO:0030705)	66	10	1.78	+	5.61	2.93E-05	7.06E-03
microtubule cytoskeleton organization (GO:0000226)	228	29	6.15	+	4.71	4.77E-11	3.45E-08
cell projection organization (GO:0030030)	450	57	12.15	+	4.69	1.75E-20	2.39E-17
plasma membrane bounded cell projection organization (GO:0120036)	445	56	12.01	+	4.66	5.08E-20	6.24E-17
pattern specification process (GO:0007389)	199	19	5.37	+	3.54	5.45E-06	1.49E-03

movement of cell or subcellular component (GO:0006928)	583	54	15.74	+	3.43	3.86E-14	3.64E-11
cellular protein complex assembly (GO:0043623)	194	16	5.24	+	3.06	1.47E-04	3.06E-02
cytoskeleton organization (GO:0007010)	548	41	14.79	+	2.77	1.73E-08	7.32E-06
cellular component assembly (GO:0022607)	1036	69	27.96	+	2.47	2.63E-11	2.16E-08
cellular component biogenesis (GO:0044085)	1185	70	31.99	+	2.19	2.91E-09	1.79E-06
organelle organization (GO:0006996)	1639	84	44.24	+	1.9	4.29E-08	1.65E-05
cellular component organization (GO:0016043)	2537	103	68.48	+	1.5	4.18E-05	9.34E-03
regulation of cellular biosynthetic process (GO:0031326)	2132	32	57.55	-	0.56	2.25E-04	4.31E-02
regulation of macromolecule biosynthetic process (GO:0010556)	2039	30	55.04	-	0.55	2.21E-04	4.31E-02
regulation of cellular macromolecule biosynthetic process (GO:2000111978)	29	29	53.39	-	0.54	2.45E-04	4.55E-02
macromolecule biosynthetic process (GO:0009059)	1283	15	34.63	-	0.43	2.28E-04	4.31E-02
nucleic acid metabolic process (GO:0090304)	1511	17	40.79	-	0.42	3.04E-05	7.05E-03
gene expression (GO:0010467)	1448	16	39.09	-	0.41	4.30E-05	9.44E-03
response to organic substance (GO:0010033)	1076	11	29.04	-	0.38	1.98E-04	3.98E-02
cellular response to chemical stimulus (GO:0070887)	1087	11	29.34	-	0.37	1.48E-04	3.03E-02
RNA metabolic process (GO:0016070)	1198	12	32.34	-	0.37	6.16E-05	1.33E-02
system process (GO:0003008)	1252	11	33.8	-	0.33	7.43E-06	1.99E-03
nervous system process (GO:0050877)	1001	8	27.02	-	0.3	3.00E-05	7.09E-03
response to chemical (GO:0042221)	2204	17	59.49	-	0.29	4.56E-11	3.50E-08
sensory perception (GO:0007600)	876	6	23.65	-	0.25	3.46E-05	7.89E-03
G-protein coupled receptor signaling pathway (GO:0007186)	1196	8	32.28	-	0.25	6.26E-07	1.92E-04
sensory perception of smell (GO:0007608)	692	1	18.68	-	0.05	3.47E-07	1.18E-04
detection of stimulus involved in sensory perception (GO:0050906)	722	1	19.49	-	0.05	1.61E-07	6.01E-05
sensory perception of chemical stimulus (GO:0007606)	722	1	19.49	-	0.05	1.61E-07	5.83E-05
detection of stimulus (GO:0051606)	769	1	20.76	-	0.05	3.19E-08	1.26E-05

GO molecular function complete	REFLIS T (22191)	upload_ 1 (599)	upload_1 (expected)	uplo ad_ 1 (ove r/un der)	upload_1 (fold Enrichme nt)	upload_1 (raw P- value)	upload_1 (FDR)
dynein light chain binding (GO:0045503)	12	10	0.32	+	30.87	7.11E-11	1.27E-07
ATP-dependent microtubule motor activity, minus-end-directed (GO:008018)	6	6	0.22	+	27.79	8.07E-07	3.20E-04
dynein heavy chain binding (GO:0045504)	6	4	0.16	+	24.7	8.75E-05	1.83E-02
dynein intermediate chain binding (GO:0045505)	14	7	0.38	+	18.52	7.06E-07	3.15E-04
ATP-dependent microtubule motor activity (GO:1990939)	28	13	0.76	+	17.2	2.25E-11	8.03E-08
dynein light intermediate chain binding (GO:0051959)	18	8	0.49	+	16.47	2.24E-07	1.33E-04
ATP-dependent microtubule motor activity, plus-end-directed (GO:0002020)	7	7	0.54	+	12.97	4.70E-06	1.12E-03
microtubule motor activity (GO:0003777)	61	16	1.65	+	9.72	1.32E-10	1.57E-07
motor activity (GO:0003774)	99	19	2.67	+	7.11	2.60E-10	2.32E-07
microtubule binding (GO:0008017)	144	13	3.89	+	3.34	2.69E-04	4.80E-02
tubulin binding (GO:0015631)	181	15	4.89	+	3.07	2.24E-04	4.20E-02
nucleic acid binding (GO:0003676)	2480	33	66.94	-	0.49	3.18E-06	8.71E-04
signal transducer activity (GO:0004871)	1510	18	40.76	-	0.44	8.77E-05	1.74E-02
molecular transducer activity (GO:0060089)	1460	14	39.41	-	0.36	4.34E-06	1.11E-03
receptor activity (GO:0004872)	1427	12	38.52	-	0.31	8.92E-07	3.18E-04
transmembrane signaling receptor activity (GO:0004888)	1238	10	33.42	-	0.3	2.75E-06	8.92E-04
transmembrane receptor activity (GO:0099600)	1238	10	33.42	-	0.3	2.75E-06	8.18E-04
signaling receptor activity (GO:0038023)	1331	10	35.93	-	0.28	5.76E-07	2.94E-04
G-protein coupled receptor activity (GO:0004930)	1019	7	27.51	-	0.25	5.38E-06	1.20E-03

GO cellular component complete	REFLIS T (22191)	upload_ 1 (599)	upload_1 (expected)	uplo ad_ 1 (ove r/un der)	upload_1 (fold Enrichme nt)	upload_1 (raw P- value)	upload_1 (FDR)
axoneme part (GO:0044447)	8	7	0.22	+	32.42	4.48E-08	3.33E-06
axonemal dynein complex (GO:0005858)	7	6	0.19	+	31.75	4.72E-07	2.94E-05
dynein complex (GO:0030286)	23	13	0.62	+	20.94	3.33E-12	3.71E-10
intraciliary transport particle A (GO:0030991)	8	4	0.22	+	18.52	1.98E-04	9.62E-03
ciliary plasm (GO:0097014)	47	23	1.27	+	18.13	1.68E-19	3.73E-17
axoneme (GO:0005930)	46	22	1.24	+	17.72	1.52E-18	2.95E-16
intraciliary transport particle (GO:0030990)	24	9	0.65	+	13.89	1.24E-07	8.03E-06
plasma membrane bounded cell projection cytoplasm (GO:0032838)	65	23	1.75	+	13.11	5.23E-17	6.79E-15
intraciliary transport particle B (GO:0030992)	15	5	0.4	+	12.35	1.38E-04	6.93E-03
photoreceptor connecting cilium (GO:0032391)	18	6	0.49	+	12.35	2.89E-05	1.61E-03
ciliary transition zone (GO:0035869)	32	10	0.86	+	11.58	1.01E-07	7.13E-06
motile cilium (GO:0031514)	73	22	1.97	+	11.16	4.01E-15	4.81E-13
ciliary basal body (GO:0036064)	54	15	1.46	+	10.29	2.54E-10	2.47E-08
sperm flagellum (GO:0036126)	47	13	1.27	+	10.25	4.18E-09	3.43E-07
9+2 motile cilium (GO:0097729)	47	13	1.27	+	10.25	4.18E-09	3.26E-07
cilium (GO:0005929)	263	62	7.1	+	8.73	2.96E-35	4.61E-32
ciliary part (GO:0044441)	196	44	5.29	+	8.32	1.58E-24	1.23E-21
microtubule associated complex (GO:0005875)	88	17	2.38	+	7.16	2.09E-09	1.92E-07
photoreceptor cell cilium (GO:0097733)	47	8	1.27	+	6.31	8.91E-05	4.79E-03
9+0 non-motile cilium (GO:0097731)	47	8	1.27	+	6.31	8.91E-05	4.63E-03
sperm part (GO:0097223)	90	15	2.43	+	6.17	1.04E-07	7.06E-06
cytoplasmic region (GO:0099568)	156	24	4.21	+	5.7	7.06E-11	7.34E-09
non-motile cilium (GO:0097730)	63	8	1.7	+	4.7	5.39E-04	2.27E-02
cell projection part (GO:0044463)	404	50	10.91	+	4.58	1.04E-17	1.80E-15
plasma membrane bounded cell projection part (GO:0120038)	404	50	10.91	+	4.58	1.04E-17	1.62E-15
plasma membrane bounded cell projection (GO:0120025)	652	71	17.6	+	4.03	7.00E-22	3.63E-19
cell projection (GO:0042995)	662	71	17.87	+	3.97	1.54E-21	5.99E-19
microtubule cytoskeleton (GO:0015630)	525	56	14.17	+	3.95	4.65E-17	6.58E-15
microtubule organizing center (GO:0005815)	313	31	8.45	+	3.67	2.85E-09	2.47E-07
cytoskeletal part (GO:0044430)	750	74	20.24	+	3.66	1.70E-20	5.30E-18
microtubule (GO:0005874)	135	12	3.64	+	3.29	5.21E-04	2.26E-02
cytoskeleton (GO:0005856)	955	83	25.78	+	3.22	9.82E-20	2.55E-17
polymeric cytoskeletal fiber (GO:0099513)	264	18	7.13	+	2.53	5.18E-04	2.31E-02
intracellular non-membrane-bounded organelle (GO:0043232)	2036	93	54.96	+	1.69	1.06E-06	6.36E-05
non-membrane-bounded organelle (GO:0043228)	2036	93	54.96	+	1.69	1.06E-06	6.12E-05
intracellular membrane-bounded organelle (GO:0043231)	5322	109	143.66	-	0.76	9.31E-04	3.82E-02
intracellular ribonucleoprotein complex (GO:0030529)	575	3	15.52	-	0.19	2.96E-04	1.40E-02
ribonucleoprotein complex (GO:1990904)	578	3	15.6	-	0.19	3.02E-04	1.38E-02

(2) GO analysis on DSGs

Analysis Type: PANTHER Overrepresentation Test (Released 20171205)
 Annotation Version and Release Date: GO Ontology database Released 2018-02-02
 Analyzed List: upload_1 (Sus scrofa)
 Reference List: Sus scrofa (all genes in database)
 Test Type: FISHER

GO biological process complete	REFLIS T (22191)	upload_ 1 (648)	upload_ 1 (expected)	upload_ 1 (over/ under)	upload_ 1 (fold Enrichme nt)	upload_ 1 (raw P- value)	upload_ 1 (FDR)
cilium movement involved in cell motility (GO:0060294)	7	5	0.2	+	24.46	1.22E-05	4.27E-03
inner dynein arm assembly (GO:0036159)	10	6	0.29	+	20.55	3.20E-06	1.23E-03
cilium or flagellum-dependent cell motility (GO:0001539)	12	7	0.35	+	19.98	5.36E-07	2.35E-04
cilium-dependent cell motility (GO:0060285)	11	6	0.32	+	18.68	4.83E-06	1.80E-03
axonemal dynein complex assembly (GO:0070286)	20	10	0.58	+	17.12	5.68E-09	4.10E-06
cilium movement (GO:0003341)	34	17	0.99	+	17.12	2.45E-14	3.76E-11
axoneme assembly (GO:0035082)	34	16	0.99	+	16.12	2.95E-13	4.03E-10
outer dynein arm assembly (GO:0036158)	12	5	0.35	+	14.27	8.44E-05	2.47E-02
microtubule bundle formation (GO:0001578)	50	17	1.46	+	11.64	3.66E-12	4.09E-09
intraciliary transport (GO:0042073)	20	6	0.58	+	10.27	7.23E-05	2.22E-02
protein transport along microtubule (GO:0098840)	21	6	0.61	+	9.78	9.07E-05	2.59E-02
microtubule-based protein transport (GO:0099118)	21	6	0.61	+	9.78	9.07E-05	2.53E-02
cilium assembly (GO:0060271)	148	40	4.32	+	9.26	1.03E-23	6.30E-20
cilium organization (GO:0044782)	159	42	4.64	+	9.05	1.62E-24	2.00E-20
flagellated sperm motility (GO:0030317)	38	10	1.11	+	9.01	7.80E-07	3.30E-04
sperm motility (GO:0097722)	39	10	1.14	+	8.78	9.55E-07	3.91E-04
microtubule-based movement (GO:0007018)	132	32	3.85	+	8.3	4.89E-18	1.00E-14
plasma membrane bounded cell projection assembly (GO:0120031)	184	40	5.37	+	7.44	9.41E-21	3.86E-17
cell projection assembly (GO:0030031)	185	40	5.4	+	7.4	1.12E-20	3.43E-17
determination of left/right symmetry (GO:0007368)	54	10	1.58	+	6.34	1.20E-05	4.34E-03
determination of bilateral symmetry (GO:0009855)	57	10	1.66	+	6.01	1.82E-05	6.22E-03
specification of symmetry (GO:0009799)	57	10	1.66	+	6.01	1.82E-05	6.05E-03
microtubule-based process (GO:0007017)	339	49	9.9	+	4.95	1.73E-18	4.24E-15
organelle assembly (GO:0070925)	352	46	10.28	+	4.48	6.27E-16	1.10E-12
microtubule cytoskeleton organization (GO:0000226)	228	25	6.66	+	3.75	7.02E-08	3.92E-05
cell projection organization (GO:0030030)	450	46	13.14	+	3.5	2.03E-12	2.49E-09
plasma membrane bounded cell projection organization (GO:0120036)	445	45	12.99	+	3.46	4.97E-12	5.09E-09
movement of cell or subcellular component (GO:0006928)	583	50	17.02	+	2.94	7.78E-11	7.36E-08
cytoskeleton organization (GO:0007010)	548	40	16	+	2.5	3.98E-07	1.81E-04
cellular component assembly (GO:0022607)	1036	54	30.25	+	1.78	7.36E-05	2.21E-02
organelle organization (GO:0006996)	1639	78	47.86	+	1.63	3.94E-05	1.24E-02
cellular macromolecule biosynthetic process (GO:0034645)	1263	16	36.88	-	0.43	1.72E-04	4.58E-02
macromolecule biosynthetic process (GO:0009059)	1283	16	37.46	-	0.43	9.79E-05	2.67E-02
gene expression (GO:0010467)	1448	18	42.28	-	0.43	2.99E-05	9.66E-03
response to chemical (GO:0042221)	2204	27	64.36	-	0.42	9.10E-08	4.66E-05
system process (GO:0003008)	1252	9	36.56	-	0.25	6.97E-08	4.08E-05
nervous system process (GO:0050877)	1001	6	29.23	-	0.21	3.07E-07	1.45E-04
G-protein coupled receptor signaling pathway (GO:0007186)	1196	7	34.92	-	0.2	1.76E-08	1.20E-05
sensory perception (GO:0007600)	876	5	25.58	-	0.2	1.36E-06	5.39E-04
detection of stimulus (GO:0051606)	769	2	22.46	-	0.09	1.01E-07	4.97E-05
sensory perception of smell (GO:0007608)	692	1	20.21	-	0.05	7.17E-08	3.83E-05
detection of stimulus involved in sensory perception (GO:0050906)	722	1	21.08	-	0.05	3.40E-08	2.20E-05
sensory perception of chemical stimulus (GO:0007606)	722	1	21.08	-	0.05	3.40E-08	2.09E-05

GO molecular function complete	REFLIS T (22191)	upload_ 1 (648)	upload_1 (expected)	uplo ad_ 1 (ove r/un der)	upload_1 (fold Enrichme nt)	upload_1 (raw P- value)	upload_1 (FDR)
dynein light chain binding (GO:0045503)	12	10	0.35	+	28.54	1.50E-10	1.78E-07
ATP-dependent microtubule motor activity, minus-end-directed (GO:0001808)	6	6	0.23	+	25.68	1.26E-06	3.46E-04
dynein heavy chain binding (GO:0045504)	6	4	0.18	+	22.83	1.18E-04	1.61E-02
dynein intermediate chain binding (GO:0045505)	14	7	0.41	+	17.12	1.18E-06	3.50E-04
ATP-dependent microtubule motor activity (GO:1990939)	28	13	0.82	+	15.9	5.82E-11	1.04E-07
dynein light intermediate chain binding (GO:0051959)	18	8	0.53	+	15.22	4.00E-07	1.30E-04
ATP-dependent microtubule motor activity, plus-end-directed (GO:0002020)	7	7	0.58	+	11.99	7.76E-06	1.73E-03
microtubule motor activity (GO:0003777)	61	18	1.78	+	10.11	6.17E-12	2.20E-08
motor activity (GO:0003774)	99	19	2.89	+	6.57	9.31E-10	8.30E-07
ATPase activity (GO:0016887)	321	23	9.37	+	2.45	1.89E-04	2.41E-02
pyrophosphatase activity (GO:0016462)	601	35	17.55	+	1.99	2.21E-04	2.72E-02
hydrolase activity, acting on acid anhydrides, in phosphorus-containing	607	35	17.73	+	1.97	2.45E-04	2.91E-02
hydrolase activity, acting on acid anhydrides (GO:0016817)	609	35	17.78	+	1.97	2.54E-04	2.93E-02
nucleoside-triphosphatase activity (GO:0017111)	580	33	16.94	+	1.95	4.67E-04	4.76E-02
ATP binding (GO:0005524)	1055	55	30.81	+	1.79	5.87E-05	1.10E-02
adenyl ribonucleotide binding (GO:0032559)	1071	55	31.27	+	1.76	9.50E-05	1.47E-02
adenyl nucleotide binding (GO:0030554)	1075	55	31.39	+	1.75	9.92E-05	1.47E-02
purine ribonucleoside triphosphate binding (GO:0035639)	1321	66	38.57	+	1.71	3.78E-05	7.94E-03
purine ribonucleotide binding (GO:0032555)	1341	66	39.16	+	1.69	6.09E-05	1.09E-02
purine nucleotide binding (GO:0017076)	1346	66	39.3	+	1.68	6.39E-05	1.09E-02
drug binding (GO:0008144)	1204	59	35.16	+	1.68	1.63E-04	2.15E-02
ribonucleotide binding (GO:0032553)	1354	66	39.54	+	1.67	9.20E-05	1.49E-02
nucleotide binding (GO:0000166)	1519	70	44.36	+	1.58	2.88E-04	3.21E-02
nucleoside phosphate binding (GO:1901265)	1519	70	44.36	+	1.58	2.88E-04	3.11E-02
small molecule binding (GO:0036094)	1716	79	50.11	+	1.58	1.06E-04	1.52E-02
anion binding (GO:0043168)	1847	85	53.93	+	1.58	5.44E-05	1.08E-02
carbohydrate derivative binding (GO:0097367)	1504	69	43.92	+	1.57	3.66E-04	3.84E-02
signal transducer activity (GO:0004871)	1510	17	44.09	-	0.39	4.39E-06	1.04E-03
molecular transducer activity (GO:0060089)	1460	15	42.63	-	0.35	1.35E-06	3.43E-04
receptor activity (GO:0004872)	1427	13	41.67	-	0.31	2.72E-07	9.69E-05
signaling receptor activity (GO:0038023)	1331	10	38.87	-	0.26	5.88E-08	2.99E-05
transmembrane signaling receptor activity (GO:0004888)	1238	9	36.15	-	0.25	9.74E-08	4.34E-05
transmembrane receptor activity (GO:0099600)	1238	9	36.15	-	0.25	9.74E-08	3.86E-05
G-protein coupled receptor activity (GO:0004930)	1019	5	29.76	-	0.17	4.02E-08	2.39E-05

GO cellular component complete	REFLIS T (22191)	upload_ 1 (648)	upload_1 (expected)	uplo ad_ 1 (ove r/un der)	upload_1 (fold Enrichme nt)	upload_1 (raw P- value)	upload_1 (FDR)
axoneme part (GO:0044447)	8	7	0.23	+	29.96	7.57E-08	6.55E-06
axonemal dynein complex (GO:0005858)	7	6	0.2	+	29.35	7.38E-07	5.23E-05
dynein complex (GO:0030286)	23	13	0.67	+	19.36	8.69E-12	1.23E-09
intraciliary transport particle A (GO:0030991)	8	4	0.23	+	17.12	2.65E-04	1.38E-02
intraciliary transport particle (GO:0030990)	24	9	0.7	+	12.84	2.36E-07	1.94E-05
ciliary plasm (GO:0097014)	47	17	1.37	+	12.39	1.62E-12	2.53E-10
axoneme (GO:0005930)	46	16	1.34	+	11.91	1.20E-11	1.55E-09
intraciliary transport particle B (GO:0030992)	15	5	0.44	+	11.42	1.97E-04	1.10E-02
ciliary basal body (GO:0036064)	54	16	1.58	+	10.15	8.78E-11	9.77E-09
plasma membrane bounded cell projection cytoplasm (GO:0032838)	65	17	1.9	+	8.96	1.19E-10	1.23E-08
motile cilium (GO:0031514)	73	18	2.13	+	8.44	7.71E-11	9.24E-09
sperm flagellum (GO:0036126)	47	11	1.37	+	8.01	5.97E-07	4.65E-05
9+2 motile cilium (GO:0097729)	47	11	1.37	+	8.01	5.97E-07	4.43E-05
microtubule associated complex (GO:0005875)	88	19	2.57	+	7.39	1.64E-10	1.60E-08
cilium (GO:0005929)	263	55	7.68	+	7.16	2.07E-27	3.23E-24
ciliary part (GO:0044441)	196	38	5.72	+	6.64	2.63E-18	2.05E-15
ciliary transition zone (GO:0035869)	32	6	0.93	+	6.42	6.49E-04	3.16E-02
sperm part (GO:0097223)	90	12	2.63	+	4.57	3.24E-05	1.87E-03
cytoplasmic region (GO:0099568)	156	18	4.56	+	3.95	2.46E-06	1.67E-04
cell projection part (GO:0044463)	404	45	11.8	+	3.81	2.37E-13	4.62E-11
plasma membrane bounded cell projection part (GO:0120038)	404	45	11.8	+	3.81	2.37E-13	4.11E-11
microtubule cytoskeleton (GO:0015630)	525	58	15.33	+	3.78	9.70E-17	3.78E-14
microtubule organizing center (GO:0005815)	313	34	9.14	+	3.72	3.89E-10	3.56E-08
plasma membrane bounded cell projection (GO:0120025)	652	65	19.04	+	3.41	1.29E-16	4.02E-14
cell projection (GO:0042995)	662	65	19.33	+	3.36	2.55E-16	6.62E-14
microtubule (GO:0005874)	135	13	3.94	+	3.3	3.15E-04	1.58E-02
cytoskeletal part (GO:0044430)	750	71	21.9	+	3.24	5.58E-17	2.90E-14
cytoskeleton (GO:0005856)	955	80	27.89	+	2.87	3.26E-16	7.25E-14
polymeric cytoskeletal fiber (GO:0099513)	264	19	7.71	+	2.46	7.75E-04	3.66E-02
intracellular non-membrane-bounded organelle (GO:0043232)	2036	93	59.45	+	1.56	2.63E-05	1.64E-03
non-membrane-bounded organelle (GO:0043228)	2036	93	59.45	+	1.56	2.63E-05	1.57E-03
membrane-bounded organelle (GO:0043227)	6158	138	179.82	-	0.77	2.49E-04	1.34E-02
intracellular membrane-bounded organelle (GO:0043231)	5322	109	155.41	-	0.7	1.57E-05	1.02E-03