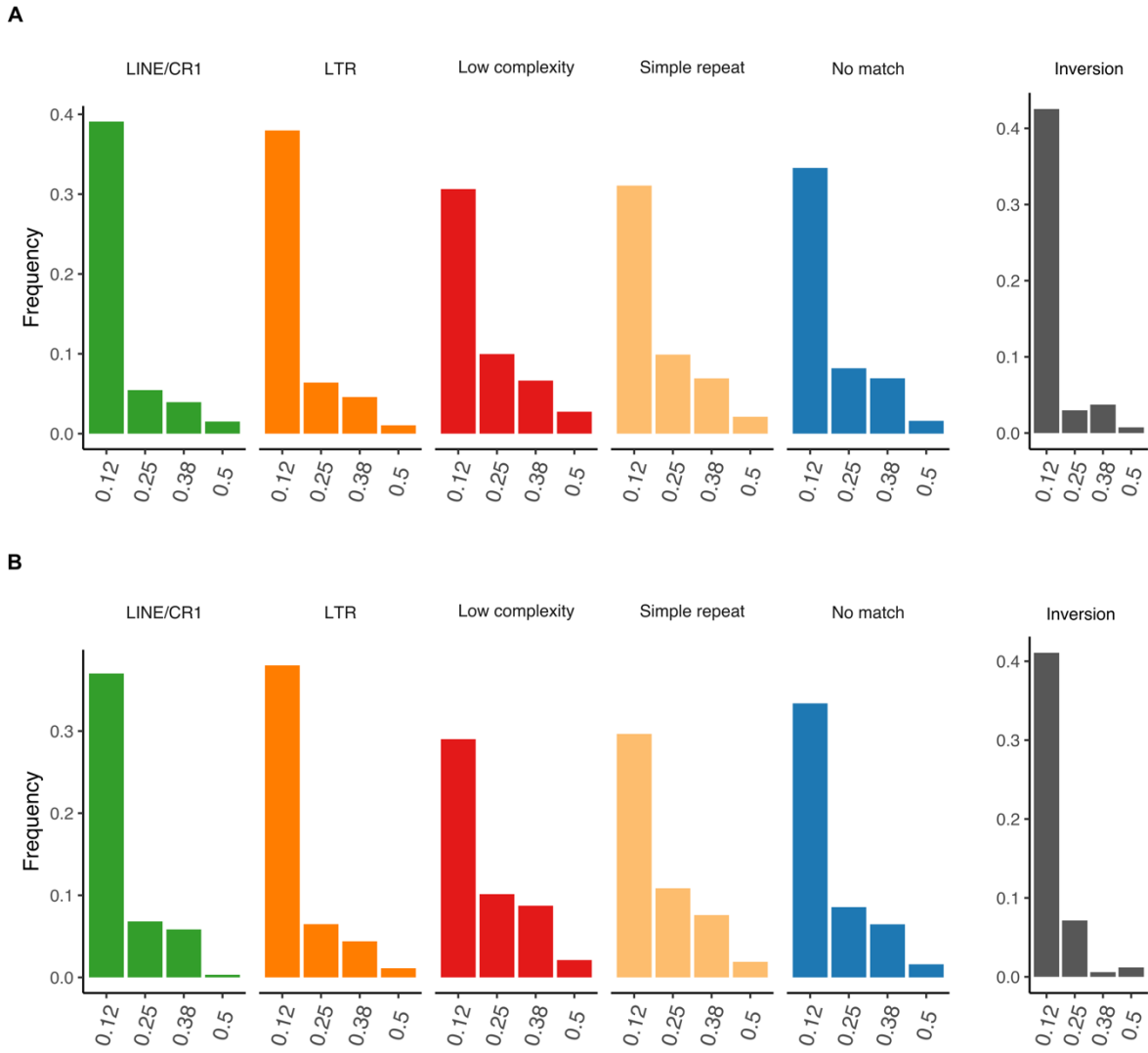
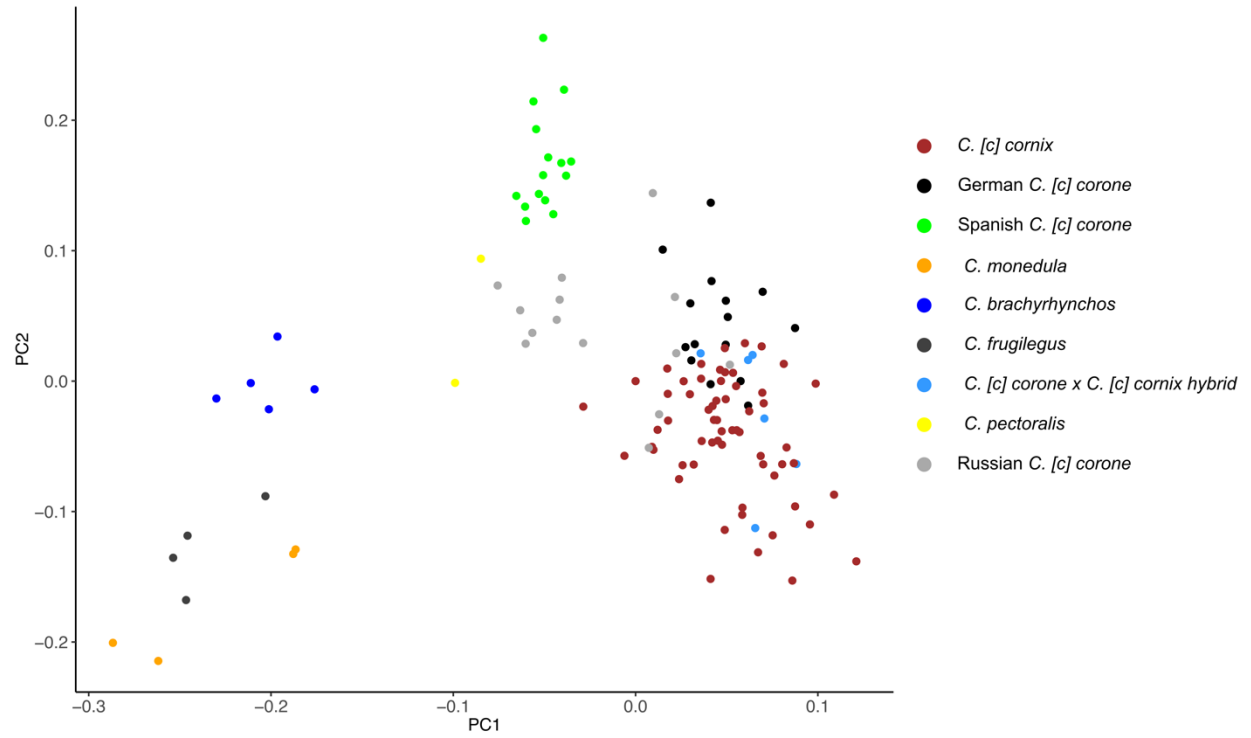


**Fig. S1.** Length distribution of inversions shorter than 10 kb identified with LR (top panel) and OM (bottom panel).



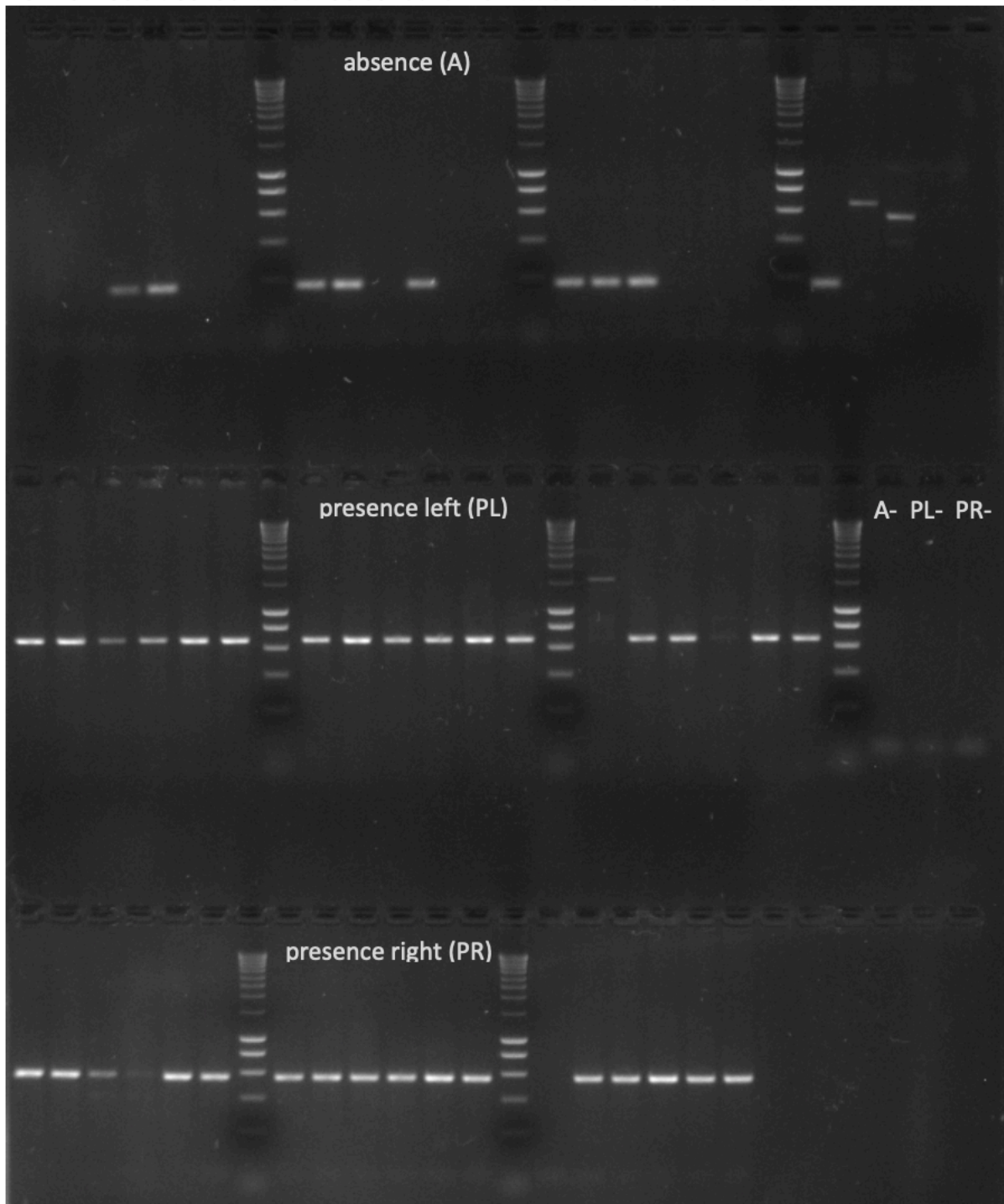
**Fig. S2.**

Folded allele frequency spectra of A, the hooded crow population and B, the German carrion crow population.



**Fig. S3.**  
Principal component analysis of SV based on SR data.

51 52 53 54 55 56 M 57 58 59 60 61 62 M 63 64 65 66 67 68 M A+ PL+ PR+



**Fig. S4.**

Representative gel picture of the LTR retrotransposon insertion genotyping in the vicinity of the *NDP* gene on chromosome 1. Numbered columns show focal individual genotyped for three different PCR fragments.

**Table S1.**

Assembly statistics of generated assemblies.

<b>Assembly</b>	<b>Number of scaffolds</b>	<b>Total length</b>	<b>Longest scaffold</b>	<b>Mean scaffold length</b>	<b>Median scaffold length</b>	<b>Scaffold N50</b>	<b>Number of contigs</b>	<b>Total length</b>	<b>Longest contig</b>	<b>Contig N50</b>	<b>% complete BUSCOs vertebrate</b>	<b>% complete BUSCOs aves</b>
Hooded crow - Super-scaffolded primary assembly	48	1037.32	154.82	21.61	6.88	74.11	810	1033.98	33.50	7.83	94,39	88,67
Hooded crow - FALCON UNZIP associated assembly	-	-	-	-	-	-	7645	965.95	1.80	0.22	83,49	78,90
Jackdaw - Super-scaffolded primary assembly	136	1042.43	58.30	7.66	3.436	16.38	1607	1036.86	52.68	12.14	93,70	93,70
Jackdaw - FALCON UNZIP associated assembly	-	-	-	-	-	-	6349	1009.69	3.10	0.42	84,30	84,30
Hawaiian crow - FALCON UNZIP primary assembly	-	-	-	-	-	-	670	1064.97	31.53	7.73	95,05	95,05
Hawaiian crow - FALCON UNZIP associated assembly	-	-	-	-	-	-	2082	432.63	9.52	0.45	42,65	39,47

**Table S2.**

Long-read sequencing data. Summary of sequencing data generated with PacBio SMRT-sequencing technology.

<b>Run ID</b>	<b>Number of reads</b>	<b>Amount sequenced [Gbp]</b>	<b>Longest read [kbp]</b>	<b>Mean read length [kbp]</b>	<b>Median read length [kbp]</b>
D_Ko_C29__pb_247_001	1319078	10,80	78,574	8,187	7,726
E_Vi_C58__pb_375_006	1426456	13,54	53,867	9,493	8,682
S_To_J14__pb_382_001	1646343	13,18	61,411	8,005	7,252
S_Up_H24__pb_382_002	1543348	13,59	67,679	8,805	7,837
S_Up_H29__pb_382_003	1378152	13,38	70,966	9,709	8,756
USA_Wa_B02__pb_383_005	2282703	18,93	53,388	8,294	7,753
D_Ko_C04__pb_375_004	1388443	12,95	69,752	9,328	8,528
S_Up_H47__pb_382_004	1561579	14,44	67,569	9,246	8,45
S_Up_H29__pb_410_002	1472021	12,19	47,971	8,284	7,298
E_Vi_C103__pb_410_003	1739876	12,84	49,815	7,38	6,895
E_Vi_C57__pb_410_004	1668218	12,98	51,044	7,778	6,812
Pl_Wa_H24__pb_410_006	1407040	13,19	51,352	9,371	8,795
Pl_Wa_H22__pb_410_005	1400972	12,92	50,659	9,222	8,814
D_Ko_C13__pb_410_007	1449483	13,49	50,611	9,307	9,027
S_To_J15__pb_410_010	1665168	12,16	50,03	7,301	6,787
USA_Wa_B02__pb_410_009	1449719	12,55	47,961	8,657	8,225
USA_Wa_B01__pb_410_008	1461798	12,60	50,766	8,618	8,3
S_Up_H24__pb_410_001	2155243	13,52	46,222	6,272	5,18
S_Up_H32__pb_210_001	1599921	12,57	52,426	7,858	6,945
S_Up_H32__pb_260_002	858882	5,71	45,288	6,644	5,916
S_Up_H32__pb_260_003	2307285	15,06	47,199	6,527	5,744
S_Up_H32__pb_260_001	4655884	29,74	50,116	6,388	5,647
S_Up_J01__pb_298_001	9614265	83,33	53,658	8,667	7,923
S_Up_H03__ps_024_006	2526698	17,22	87,77	6,814	5,6
D_Ko_C36__ps_024_005	3684211	23,70	88,122	6,433	5,583
D_Ra_C16__ps_024_002	2779764	19,33	98,694	6,955	6,209

D_Ko_C15__ps_024_008	2851263	16,85	144,589	5,91	4,965
S_To_J10__ps_024_010	4590885	28,05	99,725	6,109	4,886
D_Ko_C31__ps_024_009	3888521	27,36	113,93	7,036	5,456
S_Up_H37__ps_024_007	3248427	21,08	94,114	6,49	6,004
S_To_J13__ps_024_019	4971825	32,39	104,698	6,513	5,659
S_Up_H59__ps_024_022	4447600	31,70	106,717	7,127	5,921
D_Ra_C05__ps_024_021	4463592	30,86	116,395	6,913	5,655
E_Vi_C98__ps_038_001	2403048	16,58	77,51	6,898	5,415
E_Vi_C101__ps_038_004	3123591	19,89	97,839	6,368	5,098
E_Vi_C100__ps_038_002	4011123	22,76	80,83	5,675	5,339
RUS_Mp_D06__ps_038_007	2106565	21,14	92,069	10,034	7,805
RUS_Mp_D08__ps_038_006	4114486	21,48	85,377	5,219	5,676
RUS Mp D04 ps 038 005	3524965	18,73	73,561	5,314	5,104
Total	104188441	754,80	72,57087179	7,5347	6,719

**Table S3.**

Frequencies of individual repeat motifs in filtered insertions and deletions.

<b>Repeat ID</b>	<b>Frequency</b>	<b>Repeat class</b>	<b>Length</b>
TguERVK7-La_corCor	1310	LTR	670
TguLTRL2-Lc_corCor	1039	LTR	1315
TguERV1-Ld_I_corCor	838	LTR	6022
TguERV2-La_corCor	722	LTR	564
TguERV2-Le_corCor	712	LTR	906
A-rich	646	Low_complexity	NA
(T)n	620	Simple_repeat	NA
GA-rich	492	Low_complexity	NA
corCorLTRK23a	445	LTR	294
G-rich	435	Low_complexity	NA
corCorLTRK15a	414	LTR	966
(A)n	400	Simple_repeat	180
corCorLTRK12a	379	LTR	481
corCorLTRK13a	349	LTR	575
lycPyrLTRL11	323	LTR	1238
TguLTRL1-La_corCor	323	LTR	640
(TA)n	258	Simple_repeat	180
(C)n	214	Simple_repeat	NA
corCorLTRK17a_LTR	211	LTR	375
(AT)n	195	Simple_repeat	NA
corCorLTR1a	180	LTR	461
(G)n	171	Simple_repeat	180
TguLTRL2-La_corCor	171	LTR	1303
corCorLTRK1_I	163	LTR	1736
TguERV1-Lc_LTR_corCor	159	LTR	299
(CCTT)n	118	Simple_repeat	NA
(GGAA)n	114	Simple_repeat	180
CR1-E1_fAlb	107	LINE/CR1	437
CR1-J2_Pass	107	LINE/CR1	4277
(TTCC)n	104	Simple_repeat	NA
TguLTRL4a	103	LTR	1154



**Table S4.**

FST outliers in the all-black German carrion crow and black-and-gray hooded crow comparison based on LR variants.

<b>Chromosome</b>	<b>Position</b>	<b>Type</b>	<b>Length</b>	<b>FST</b>	<b>Gene downstream</b>	<b>Distance</b>	<b>Gene upstream</b>	<b>Distance</b>
Super-Scaffold_9_Super-Scaffold_99_chr18	10083548	DEL	86	0.812405	SLC16A6	-26679	ARSG	301
Sc8eucV_19_HRSCAF_154_chr3	78483754	DEL	1563	0.666196	GABRR2	-9425	UBE2J1	850
Sc8eucV_16_HRSCAF_138_chr1	112179329	DEL	2255	0.616612	NDP	-26270	EFHC2	37138
Sc8eucV_12_HRSCAF_113_chr4A	10168413	DEL	659	0.556894	GRIA3	-204950	MCTS1	304532
Sc8eucV_10_HRSCAF_100_chr15	9876103	INS	920	0.542418	SLC5A1	-25446	YWHAH	2969
Sc8eucV_6_HRSCAF_52_chr8	81990	DEL	1338	0.542418	SLC44A5	0	SLC44A5	0
Super-Scaffold_9_Super-Scaffold_99_chr18	9080135	INS	56	0.542418	LOC104696015	-966	BPTF	15959
Sc8eucV_21_HRSCAF_161_chr4	30401968	DEL	819	0.528082	GIMD1	-91886	DKK2	43851
Super-Scaffold_9_Super-Scaffold_99_chr18	10160422	DEL	608	0.515687	FAM20A	-9970	LOC104693358	21836
Sc8eucV_28_HRSCAF_204_chrZ	42855849	DEL	6523	0.498962	IFT74	-436763	CAAP1	402328
Sc8eucV_17_HRSCAF_144_chr12	14067812	INS	134	0.498818	PSMD6	-25685	PRICKLE2	3640
Sc8eucV_41_HRSCAF_239_chr2	11673240	DEL	115	0.45518	PITRM1	-102277	PFKP	132560
Sc8eucV_21_HRSCAF_161_chr4	10686903	DEL	1481	0.453426	MAML3	-18719	MGST2	32272
Sc8eucV_19_HRSCAF_154_chr3	93939333	INS	58	0.439911	NA	NA	NA	NA
Sc8eucV_28_HRSCAF_204_chrZ	34154260	DEL	567	0.437665	NA	NA	NA	NA
Sc8eucV_16_HRSCAF_138_chr1	435789	DEL	100	0.430649	SLAMF9	-79446	LOC104698121	31026
Sc8eucV_20_HRSCAF_160_chr1A	22139103	DEL	74	0.430649	PTPRZ1	0	PTPRZ1	0
Super-Scaffold_9_Super-Scaffold_99_chr18	6551090	INS	92	0.430649	CA10	-972	UTP18	282159
Super-Scaffold_9_Super-Scaffold_99_chr18	9954827	INS	64	0.427794	AXIN2	-95524	RGS9	14188
Sc8eucV_10_HRSCAF_100_chr15	1130347	INS	119	0.425766	GLT1D1	-31874	SLC15A4	8750
Sc8eucV_14_HRSCAF_135_chr10	18758127	DEL	70	0.425766	MPI	-16805	SCAMP2	4290

Sc8eucV_20_HRSCAF_160_chr1A	40984218	INS	295	0.425766	SLC6A15	-13521	TSPAN19	43707
Sc8eucV_19_HRSCAF_154_chr3	64545414	DEL	3696	0.42464	MAN1A1	-326161	TBC1D32	296556
Sc8eucV_19_HRSCAF_154_chr3	43076707	DEL	569	0.417853	DISC1	0	DISC1	0
Sc8eucV_22_HRSCAF_163_chr9	24812560	DEL	289	0.414455	PCCB	-20580	PPP2R3A	13552
Sc8eucV_12_HRSCAF_113_chr4A	1505992	DEL	114	0.408223	LOC104691275	-372	EDA2R	21394
Sc8eucV_5_HRSCAF_38_chr7	1789800	DEL	221	0.408223	MMADHC	-26020	LYPD6	40702
Sc8eucV_12_HRSCAF_113_chr4A	16945599	DEL	129	0.407186	LOC104691732	-34917	PIH1D3	21123
Sc8eucV_12_HRSCAF_113_chr4A	8868927	DEL	215	0.407186	NRK	0	NRK	0
Sc8eucV_41_HRSCAF_239_chr2	31827203	DEL	162	0.388603	ELMO1	0	ELMO1	0
Sc8eucV_19_HRSCAF_154_chr3	56433950	DEL	597	0.388519	ESR1	0	ESR1	0
Sc8eucV_2_HRSCAF_5_chr5	37341942	DEL	400	0.387775	LOC104698601	0	LOC104698601	0
Sc8eucV_2_HRSCAF_5_chr5	47984643	DEL	143	0.387279	TH	-15362	LOC104687704	119783
Sc8eucV_11_HRSCAF_110_chr11	2373236	INS	131	0.381214	GSE1	-22151	GINS2	40332
Sc8eucV_6_HRSCAF_52_chr8	478781	DEL	93	0.381214	NEGR1	-61593	ERICH3	227018
Super-Scaffold_8_Super-Scaffold_98_chr28	1864815	INS	149	0.381214	ADAMTS10	-72880	ZAP70	35464
Sc8eucV_21_HRSCAF_161_chr4	41662680	DEL	7777	0.379839	SORBS2	-384955	MTNR1A	95511
Sc8eucV_41_HRSCAF_239_chr2	47695276	INS	146	0.379596	IL6	-10879	LOC104689112	21839
Sc8eucV_16_HRSCAF_138_chr1	2398759	INS	68	0.37461	LOC104689368	-75896	LOC104689433	39839
Sc8eucV_2_HRSCAF_5_chr5	38174309	DEL	135	0.372993	RTF1	0	RTF1	0
Sc8eucV_41_HRSCAF_239_chr2	84746331	INS	80	0.372993	COBL	-357811	LOC104685918	289065
Sc8eucV_6_HRSCAF_52_chr8	1129691	DEL	79	0.372993	LOC104695493	-2511	WLS	2023
Sc8eucV_2_HRSCAF_5_chr5	15012660	INS	75	0.371391	PPP4R4	0	PPP4R4	0
Sc8eucV_11_HRSCAF_110_chr11	14615394	INS	59	0.366293	LOC104687436	-3416	POP4	358
Sc8eucV_19_HRSCAF_154_chr3	54586748	DEL	61	0.365118	NOX3	-113289	CLDN20	189881
Super-Scaffold_8_Super-Scaffold_98_chr28	3607722	DEL	90	0.365118	LOC104697075	0	LOC104697075	0
Super-Scaffold_9_Super-Scaffold_99_chr18	10166476	INS	151	0.365118	FAM20A	-16024	LOC104696001	23298
Super-Scaffold_9_Super-Scaffold_99_chr18	10244723	DEL	91	0.365118	LOC104696000	-7678	ABCA5	1943
Super-Scaffold_143_chr26	6291854	INS	282	0.357143	PPFIA4	0	PPFIA4	0

Sc8eucV_16_HRSCAF_138_chr1	8432823	INS	916	0.351229	ROBO1	-235266	LOC104689417	266974
Sc8eucV_20_HRSCAF_160_chr1A	27000693	DEL	2184	0.351229	IMMP2L	0	IMMP2L	0
Sc8eucV_21_HRSCAF_161_chr4	11319706	INS	52	0.351229	RNF150	-822	LOC104697268	95611
Sc8eucV_2_HRSCAF_5_chr5	564728	INS	100	0.351229	FAM179B	-211063	KLHL28	169095
Sc8eucV_41_HRSCAF_239_chr2	9079818	INS	460	0.351229	LOC104686440	0	LOC104686440	0
Sc8eucV_7_HRSCAF_58_chr13	1843425	DEL	448	0.351229	LOC104689637	-6048	SLC26A2	8279
Sc8eucV_16_HRSCAF_138_chr1	60691922	DEL	912	0.34902	LOC104693136	-557782	DIAPH3	298389
Sc8eucV_22_HRSCAF_163_chr9	24517238	DEL	2864	0.34902	MAP3K13	0	MAP3K13	0
Super-Scaffold_9_Super-Scaffold_99_chr18	5715351	DEL	51	0.34902	ACSF2	0	ACSF2	0
Sc8eucV_11_HRSCAF_110_chr11	2409601	DEL	149	0.345105	GSE1	0	GSE1	0
Sc8eucV_16_HRSCAF_138_chr1	47207238	INS	74	0.340705	WASF3	-4322	CDK8	45576
Sc8eucV_6_HRSCAF_52_chr8	23785773	DEL	300	0.340705	LOC104695422	-48461	CDC73	9165
Sc8eucV_41_HRSCAF_239_chr2	74069849	INS	384	0.340533	CDH9	0	CDH9	0
Sc8eucV_12_HRSCAF_113_chr4A	13659348	DEL	54	0.339498	LOC104691679	0	LOC104691679	0
Sc8eucV_5_HRSCAF_38_chr7	982205	INS	92	0.337316	DRC1	-14449	GALNT13	55917
Sc8eucV_41_HRSCAF_239_chr2	101128609	INS	324	0.336903	NA	NA	NA	NA
Sc8eucV_28_HRSCAF_204_chrZ	73797802	INS	73	0.330544	EDIL3	-406650	LOC104695841	282404
Sc8eucV_20_HRSCAF_160_chr1A	67154259	INS	51	0.329462	PRR5	0	PRR5	0
Sc8eucV_28_HRSCAF_204_chrZ	13197166	INS	573	0.329462	RAI14	0	RAI14	0
Sc8eucV_2_HRSCAF_5_chr5	5602372	DEL	830	0.329462	PRKCH	-64676	SLC38A6	52965
Sc8eucV_6_HRSCAF_52_chr8	10448114	DEL	60	0.329462	IPO13	-9585	ST3GAL3	4992
Super-Scaffold_9_Super-Scaffold_99_chr18	7026905	INS	97	0.329462	LOC104694274	-17172	LOC104694356	204630
Sc8eucV_2_HRSCAF_5_chr5	28446815	DEL	53	0.326572	LOC104684460	-210386	LOC104684431	41038
Super-Scaffold_9_Super-Scaffold_99_chr18	2181334	DEL	184	0.326572	LOC104695636	-20399	LOC104695682	1877
Sc8eucV_20_HRSCAF_160_chr1A	29292175	INS	55	0.321524	ADAMTS20	0	ADAMTS20	0
Sc8eucV_19_HRSCAF_154_chr3	77188793	DEL	6950	0.321188	MAP3K7	-695846	EPHA7	397902
Sc8eucV_2_HRSCAF_5_chr5	6552052	INS	108	0.321188	WDR89	0	WDR89	0
Sc8eucV_41_HRSCAF_239_chr2	26678831	DEL	1164	0.321188	MRPL32	-103684	LOC104688910	82671

Sc8eucV_19_HRSCAF_154__chr3	114426297	DEL	89	0.319956	DTNB	0	DTNB	0
Sc8eucV_10_HRSCAF_100__chr15	11369903	DEL	584	0.315981	LOC104694978	-111902	AIFM3	200211
Super-Scaffold_503__chr27	4947702	DEL	192	0.313759	LOC104685769	0	LOC104685769	0
Sc8eucV_19_HRSCAF_154__chr3	66564293	INS	160	0.312588	NT5DC1	-214535	FRK	151867
Sc8eucV_1_HRSCAF_4__chr6	16956472	INS	79	0.312588	KIF20B	0	KIF20B	0
Sc8eucV_21_HRSCAF_161__chr4	55571864	INS	155	0.312588	PPARGC1A	-48196	LOC104690704	53198
Sc8eucV_20_HRSCAF_160__chr1A	10564911	DEL	621	0.311616	GNAI1	-144700	GNAT3	241037
Sc8eucV_6_HRSCAF_52__chr8	29238870	DEL	1209	0.311616	CCDC180	-528731	LOC104693596	37188
Sc8eucV_5_HRSCAF_38__chr7	33426000	DEL	7076	0.307692	ZNF804A	-178769	LOC104698251	112821
Sc8eucV_13_HRSCAF_122__chr20	1264893	DEL	190	0.306888	LOC104698034	-2824	LOC104698050	42840
Sc8eucV_16_HRSCAF_138__chr1	24035795	DEL	383	0.306888	LSAMP	-150407	GAP43	481899
Sc8eucV_41_HRSCAF_239__chr2	61742801	DEL	699	0.306143	CDKAL1	0	CDKAL1	0
Sc8eucV_18_HRSCAF_152__chr22	4681012	DEL	145	0.305817	LOC104693230	0	LOC104693230	0
Sc8eucV_19_HRSCAF_154__chr3	91662759	DEL	122	0.305817	LOC104693575	-4823	LOC104693569	6609
Sc8eucV_19_HRSCAF_154__chr3	59802741	INS	52	0.3027	EPB41L2	-985	SMLR1	118199
Sc8eucV_20_HRSCAF_160__chr1A	72391930	DEL	67	0.3027	CACNA1C	0	CACNA1C	0
Sc8eucV_28_HRSCAF_204__chrZ	41910148	DEL	58	0.3027	SLC12A2	-121109	LOC104691976	24998
Sc8eucV_28_HRSCAF_204__chrZ	658358	INS	220	0.3027	TCF4	0	TCF4	0
Sc8eucV_16_HRSCAF_138__chr1	57452531	DEL	1336	0.301669	DGKH	-1802	RGCC	329040
Sc8eucV_2_HRSCAF_5__chr5	45053086	DEL	136	0.301417	LRP5	0	LRP5	0

**Table S5.**

Detailed sample information on sequenced and mapped individuals.

<b>Genus</b>	<b>Species</b>	<b>Individual ID</b>	<b>Tissue</b>	<b>Sampling location</b>	<b>Sequencing Instrument</b>
Corvus	brachyrhynchos	USA_CA_B01	tissue, blood	USA, California, Shasty County	Illumina HiSeq2000
Corvus	brachyrhynchos	USA_CA_B03	tissue, blood	USA, California, Shasta, Cottonwood	Illumina HiSeq2001
Corvus	brachyrhynchos	USA_CA_B08	unknown	USA, California	Illumina HiSeq2002
Corvus	brachyrhynchos	USA_NJ_B02	tissue, blood	USA, New Jersey, Union County, Westfield	Illumina HiSeq2003
Corvus	brachyrhynchos	USA_NY_B03	tissue, blood	USA, New York, Suffolk County, Northport	Illumina HiSeq2004
Corvus	brachyrhynchos	USA_NY_B04	tissue, blood	USA, New York, Nassau County, Wantagh	Illumina HiSeq2005
Corvus	corone cornix	B_So_H01	blood	Bulgaria, Sofia	Illumina HiSeq2006
Corvus	corone cornix	B_So_H02	blood	Bulgaria, Sofia	Illumina HiSeq2007
Corvus	corone cornix	B_So_H03	blood	Bulgaria, Sofia	Illumina HiSeq2008
Corvus	corone cornix	B_So_H04	blood	Bulgaria, Sofia	Illumina HiSeq2009
Corvus	corone cornix	B_SZ_H01	blood	Bulgaria, Stora Zagora	Illumina HiSeq2010
Corvus	corone cornix	B_SZ_H02	blood	Bulgaria, Stora Zagora	Illumina HiSeq2011
Corvus	corone cornix	B_un_H01	blood	Bulgaria	Illumina HiSeq2012
Corvus	corone cornix	ISR_TA_H01	blood	Israel, Tel Aviv	Illumina HiSeq2013
Corvus	corone cornix	ISR_TA_H02	blood	Israel, Tel Aviv	Illumina HiSeq2014
Corvus	corone cornix	ISR_TA_H04	blood	Israel, Tel Aviv	Illumina HiSeq2015
Corvus	corone cornix	ITA_Ro_H01	blood	Italy, Rome	Illumina HiSeq2016
Corvus	corone cornix	ITA_Ro_H02	blood	Italy, Rome	Illumina HiSeq2017
Corvus	corone cornix	ITA_Ro_H03	blood	Italy, Rome	Illumina HiSeq2018
Corvus	corone cornix	ITA_Ro_H04	blood	Italy, Rome	Illumina HiSeq2019
Corvus	corone cornix	ITA_Ro_H05	blood	Italy, Rome	Illumina HiSeq2020
Corvus	corone cornix	ITA_Ro_H06	blood	Italy, Rome	Illumina HiSeq2021
Corvus	corone cornix	ITA_Ro_H07	blood	Italy, Rome	Illumina HiSeq2022
Corvus	corone cornix	ITA_Ro_H08	blood	Italy, Rome	Illumina HiSeq2023
Corvus	corone cornix	ITA_Ro_H09	tissue	Italy, Rome	Illumina HiSeq2024

Corvus	corone cornix	ITA_Ro_H10	tissue	Italy, Rome	Illumina HiSeq2025
Corvus	corone cornix	ITA_Ro_H11	tissue	Italy, Rome	Illumina HiSeq2026
Corvus	corone cornix	ITA_Ro_H12	tissue	Italy, Rome	Illumina HiSeq2027
Corvus	corone cornix	ITA_Ro_H13	tissue	Italy, Rome	Illumina HiSeq2028
Corvus	corone cornix	ITA_Ro_H14	tissue	Italy, Rome	Illumina HiSeq2029
Corvus	corone cornix	PL_Wa_H02	blood	Poland, Warsaw	Illumina HiSeq2030
Corvus	corone cornix	PL_Wa_H03	blood	Poland, Warsaw	Illumina HiSeq2031
Corvus	corone cornix	PL_Wa_H05	blood	Poland, Warsaw	Illumina HiSeq2032
Corvus	corone cornix	PL_Wa_H06	blood	Poland, Warsaw	Illumina HiSeq2033
Corvus	corone cornix	PL_Wa_H09	blood	Poland, Warsaw	Illumina HiSeq2034
Corvus	corone cornix	PL_Wa_H11	blood	Poland, Warsaw	Illumina HiSeq2035
Corvus	corone cornix	PL_Wa_H14	blood	Poland, Warsaw	Illumina HiSeq2036
Corvus	corone cornix	PL_Wa_H16	blood	Poland, Warsaw	Illumina HiSeq2037
Corvus	corone cornix	PL_Wa_H17	blood	Poland, Warsaw	Illumina HiSeq2038
Corvus	corone cornix	PL_Wa_H22	blood	Poland, Warsaw	Illumina HiSeq2039
Corvus	corone cornix	PL_Wa_H23	blood	Poland, Warsaw	Illumina HiSeq2040
Corvus	corone cornix	PL_Wa_H32	blood	Poland, Warsaw	Illumina HiSeq2041
Corvus	corone cornix	PL_Wa_H35	blood	Poland, Warsaw	Illumina HiSeq2042
Corvus	corone cornix	PL_Wa_H50	blood	Poland, Warsaw	Illumina HiSeq2043
Corvus	corone cornix	PL_Wa_H52	blood	Poland, Warsaw	Illumina HiSeq2044
Corvus	corone cornix	RUS_Ki_H02	blood	Russia, Kirov	Illumina HiSeq2045
Corvus	corone cornix	RUS_Ki_H03	blood	Russia, Kirov	Illumina HiSeq2046
Corvus	corone cornix	RUS_Ki_H04	blood	Russia, Kirov	Illumina HiSeq2047
Corvus	corone cornix	RUS_No_H02	blood	Russia, Novosibirsk	Illumina HiSeq2048
Corvus	corone cornix	RUS_No_H03	blood	Russia, Novosibirsk	Illumina HiSeq2049
Corvus	corone cornix	RUS_Tu_H01	blood	Russia, Tyumen	Illumina HiSeq2050
Corvus	corone cornix	S_Ri_H05	liver	Sweden, Rimbo	Illumina HiSeq2051
Corvus	corone cornix	S_Ri_H07	liver	Sweden, Rimbo	Illumina HiSeq2052
Corvus	corone cornix	S_Ri_H23	liver	Sweden, Rimbo	Illumina HiSeq2053

Corvus	corone cornix	S_Ri_H29	liver	Sweden, Rimbo	Illumina HiSeq2054
Corvus	corone cornix	S_Ri_H43	liver	Sweden, Rimbo	Illumina HiSeq2055
Corvus	corone cornix	S_Up_H03	blood	Sweden, Uppsala	Illumina HiSeq2056
Corvus	corone cornix	S_Up_H09	blood	Sweden, Uppsala	Illumina HiSeq2057
Corvus	corone cornix	S_Up_H16	blood	Sweden, Uppsala	Illumina HiSeq2058
Corvus	corone cornix	S_Up_H24	blood	Sweden, Uppsala	Illumina HiSeq2059
Corvus	corone cornix	S_Up_H29	blood	Sweden, Uppsala	Illumina HiSeq2060
Corvus	corone cornix	S_Up_H37	blood	Sweden, Uppsala	Illumina HiSeq2061
Corvus	corone cornix	S_Up_H43	blood	Sweden, Uppsala	Illumina HiSeq2062
Corvus	corone cornix	S_Up_H47	blood	Sweden, Uppsala	Illumina HiSeq2063
Corvus	corone cornix	S_Up_H51	blood	Sweden, Uppsala	Illumina HiSeq2064
Corvus	corone cornix	S_Up_H52	blood	Sweden, Uppsala	Illumina HiSeq2065
Corvus	corone corone	D_Ko_C02	blood	Germany, Konstanz	Illumina HiSeq2066
Corvus	corone corone	D_Ko_C04	blood	Germany, Konstanz	Illumina HiSeq2067
Corvus	corone corone	D_Ko_C05	blood	Germany, Konstanz	Illumina HiSeq2068
Corvus	corone corone	D_Ko_C08	blood	Germany, Konstanz	Illumina HiSeq2069
Corvus	corone corone	D_Ko_C11	blood	Germany, Konstanz	Illumina HiSeq2070
Corvus	corone corone	D_Ko_C13	blood	Germany, Konstanz	Illumina HiSeq2071
Corvus	corone corone	D_Ko_C15	blood	Germany, Konstanz	Illumina HiSeq2072
Corvus	corone corone	D_Ko_C19	blood	Germany, Konstanz	Illumina HiSeq2073
Corvus	corone corone	D_Ko_C20	blood	Germany, Konstanz	Illumina HiSeq2074
Corvus	corone corone	D_Ra_C01	blood	Germany, Radolfzell	Illumina HiSeq2075
Corvus	corone corone	D_Ra_C05	blood	Germany, Radolfzell	Illumina HiSeq2076
Corvus	corone corone	D_Ra_C06	blood	Germany, Radolfzell	Illumina HiSeq2077
Corvus	corone corone	D_Ra_C11	blood	Germany, Radolfzell	Illumina HiSeq2078
Corvus	corone corone	D_Ra_C14	blood	Germany, Radolfzell	Illumina HiSeq2079
Corvus	corone corone	D_Ra_C16	blood	Germany, Radolfzell	Illumina HiSeq2080
Corvus	corone corone	E_Vi_C01	blood	Spain, Villaseca de la Sorriba	Illumina HiSeq2081
Corvus	corone corone	E_Vi_C05	blood	Spain, Villaseca de la Sorriba	Illumina HiSeq2082

Corvus	corone corone	E_Vi_C08	blood	Spain, Villaseca de la Sorriba	Illumina HiSeq2083
Corvus	corone corone	E_Vi_C14	blood	Spain, Villaseca de la Sorriba	Illumina HiSeq2084
Corvus	corone corone	E_Vi_C19	blood	Spain, Villaseca de la Sorriba	Illumina HiSeq2085
Corvus	corone corone	E_Vi_C22	blood	Spain, Villaseca de la Sorriba	Illumina HiSeq2086
Corvus	corone corone	E_Vi_C23	blood	Spain, Villaseca de la Sorriba	Illumina HiSeq2087
Corvus	corone corone	E_Vi_C32	blood	Spain, Villaseca de la Sorriba	Illumina HiSeq2088
Corvus	corone corone	E_Vi_C37	blood	Spain, Villaseca de la Sorriba	Illumina HiSeq2089
Corvus	corone corone	E_Vi_C44	blood	Spain, Villaseca de la Sorriba	Illumina HiSeq2090
Corvus	corone corone	E_Vi_C46	blood	Spain, Villaseca de la Sorriba	Illumina HiSeq2091
Corvus	corone corone	E_Vi_C48	blood	Spain, Villaseca de la Sorriba	Illumina HiSeq2092
Corvus	corone corone	E_Vi_C51	blood	Spain, Villaseca de la Sorriba	Illumina HiSeq2093
Corvus	corone corone	E_Vi_C57	blood	Spain, Villaseca de la Sorriba	Illumina HiSeq2094
Corvus	corone corone	E_Vi_C58	blood	Spain, Villaseca de la Sorriba	Illumina HiSeq2095
Corvus	corone coroneXcorone cornix	IRL_Lm_H07	blood	Ireland, Lough Money Farm	Illumina HiSeq2096
Corvus	corone coroneXcorone cornix	IRL_Lm_H08	blood	Ireland, Lough Money Farm	Illumina HiSeq2097
Corvus	corone coroneXcorone cornix	IRL_Lm_H10	blood	Ireland, Lough Money Farm	Illumina HiSeq2098
Corvus	corone coroneXcorone cornix	IRL_Lm_H12	blood	Ireland, Lough Money Farm	Illumina HiSeq2099
Corvus	corone coroneXcorone cornix	IRL_Lm_H15	blood	Ireland, Lough Money Farm	Illumina HiSeq2100
Corvus	corone coroneXcorone cornix	IRL_Lm_H16	blood	Ireland, Lough Money Farm	Illumina HiSeq2101
Corvus	corone coroneXcorone cornix	RUS_Ke_Y01	blood	Russia, Kemerovo	Illumina HiSeq2102
Corvus	corone coroneXcorone cornix	RUS_Ke_Y02	blood	Russia, Kemerovo	Illumina HiSeq2103
Corvus	corone coroneXcorone cornix	RUS_Ke_Y03	blood	Russia, Kemerovo	Illumina HiSeq2104
Corvus	corone coroneXcorone cornix	RUS_Ke_Y05	blood	Russia, Kemerovo	Illumina HiSeq2105
Corvus	corone coroneXcorone cornix	RUS_Ke_Y06	blood	Russia, Kemerovo	Illumina HiSeq2106
Corvus	corone orientalis	RUS_Kr_O01	blood	Russia, Krasnoyarsky	Illumina HiSeq2107
Corvus	corone orientalis	RUS_Kr_O02	blood	Russia, Krasnoyarsky	Illumina HiSeq2108



Corvus	corone orientalis	RUS_Kr_O03	blood	Russia, Krasnoyarsky	Illumina HiSeq2109
Corvus	corone orientalis	RUS_Kr_O04	blood	Russia, Krasnoyarsky	Illumina HiSeq2110
Corvus	corone orientalis	RUS_Pr_O01	tissue, blood	Russia, Primorsky	Illumina HiSeq2111
Corvus	corone orientalis	RUS_Pr_O02	tissue, blood	Russia, Primorsky	Illumina HiSeq2112
Corvus	corone orientalis	RUS_Pr_O03	tissue, blood	Russia, Primorsky	Illumina HiSeq2113
Corvus	corone orientalis	RUS_Pr_O04	tissue, blood	Russia, Primorsky	Illumina HiSeq2114
Corvus	corone orientalis	RUS_Pr_O05	tissue, blood	Russia, Primorsky	Illumina HiSeq2115
Corvus	corone orientalis	RUS_Tv_O01	blood	Russia, Tuva	Illumina HiSeq2116
Corvus	corone orientalis	RUS_Tv_O02	blood	Russia, Tuva	Illumina HiSeq2117
Corvus	corone orientalis	RUS_Ya_O01	tissue	Russia, Yakutsk	Illumina HiSeq2118
Corvus	corone orientalis	RUS_Ya_O02	blood	Russia, Yakutsk	Illumina HiSeq2119
Corvus	corone orientalis	RUS_Ya_O03	blood	Russia, Yakutsk	Illumina HiSeq2120
Corvus	dauricus	CHN_Gu_D02	liver	China, Guangxi	Illumina HiSeq2121
Corvus	dauricus	MON_Kh_D01	blood	Mongolia, Khentii	Illumina HiSeq2122
Corvus	dauricus	MON_Kh_D02	blood	Mongolia, Khentii	Illumina HiSeq2123
Corvus	dauricus	MON_Kh_D03	blood	Mongolia, Khentii	Illumina HiSeq2124
Corvus	monedula	S_Ri_J01	liver	Sweden, Rimbo	Illumina HiSeq2125
Corvus	monedula	S_Ri_J02	liver	Sweden, Rimbo	Illumina HiSeq2126
Corvus	monedula	S_Ri_J03	liver	Sweden, Rimbo	Illumina HiSeq2127
Corvus	monedula	S_Ri_J08	liver	Sweden, Rimbo	Illumina HiSeq2128
Corvus	pectoralis/torquatus	CHN_Gu_P01	tissue	China, Guangxi	Illumina HiSeq2129
Corvus	pectoralis/torquatus	Un_un_P01	tissue	unknown	Illumina HiSeq2130
Corvus	pectoralis/torquatus	Un_un_P02	tissue	unknown	Illumina HiSeq2131
Corvus	corone cornix	S_Up_H32	blood	Sweden,Uppsala	PacBio RSII
Corvus	corone cornix	S_Up_H03	blood	Sweden,Uppsala	PacBio Sequel
Corvus	corone cornix	S_Up_H47	blood	Sweden,Uppsala	PacBio RSII
Corvus	corone cornix	S_Up_H37	blood	Sweden,Uppsala	PacBio Sequel
Corvus	corone cornix	S_Up_H24	blood	Sweden,Uppsala	PacBio RSII
Corvus	corone cornix	S_Up_H29	blood	Sweden,Uppsala	PacBio RSII

Corvus	corone cornix	S_Up_H59	blood	Sweden,Uppsala	PacBio Sequel
Corvus	corone cornix	Pl_Wa_H22	blood	Poland,Warsaw	PacBio RSII
Corvus	corone cornix	Pl_Wa_H24	blood	Poland,Warsaw	PacBio RSII
Corvus	corone corone	D_Ko_C04	blood	Germany,Konstanz	PacBio RSII
Corvus	corone corone	D_Ko_C13	blood	Germany,Konstanz	PacBio RSII
Corvus	corone corone	D_Ko_C15	blood	Germany,Konstanz	PacBio Sequel
Corvus	corone corone	D_Ko_C29	blood	Germany,Konstanz	PacBio RSII
Corvus	corone corone	D_Ra_C16	blood	Germany,Radolfzell	PacBio Sequel
Corvus	corone corone	D_Ko_C36	blood	Germany,Konstanz	PacBio Sequel
Corvus	corone corone	D_Ra_C05	blood	Germany,Radolfzell	PacBio Sequel
Corvus	corone corone	D_Ko_C31	blood	Germany,Konstanz	PacBio Sequel
Corvus	corone corone	E_Vi_C57	blood	Spain,La Sorriba	PacBio RSII
Corvus	corone corone	E_Vi_C58	blood	Spain,La Sorriba	PacBio RSII
Corvus	corone corone	E_Vi_C98	blood	Spain,La Sorriba	PacBio Sequel
Corvus	corone corone	E_Vi_C100	blood	Spain,La Sorriba	PacBio Sequel
Corvus	corone corone	E_Vi_C101	blood	Spain,La Sorriba	PacBio Sequel
Corvus	corone corone	E_Vi_C103	blood	Spain,La Sorriba	PacBio RSII
Corvus	brachyrhynchos	USA_Wa_B01	blood	USA,Seattle	PacBio RSII
Corvus	brachyrhynchos	USA_Wa_B02	blood	USA,Seattle	PacBio RSII
Corvus	monedula	S_Up_J01	blood	Sweden,Uppsala	PacBio RSII
Corvus	monedula	S_To_J13	blood	Sweden,Aspa	PacBio Sequel
Corvus	monedula	S_To_J10	blood	Sweden,Aspa	PacBio Sequel
Corvus	monedula	S_To_J14	blood	Sweden,Aspa	PacBio RSII
Corvus	monedula	S_To_J15	blood	Sweden,Aspa	PacBio RSII
Corvus	dauricus	RUS_Mp_D04	blood	Russia,Muraviovka Park	PacBio Sequel
Corvus	dauricus	RUS_Mp_D06	blood	Russia,Muraviovka Park	PacBio Sequel
Corvus	dauricus	RUS_Mp_D08	blood	Russia,Muraviovka Park	PacBio Sequel
Corvus	corone corone	D_Ra_C05	blood	Germany, Radolfzell	BioNano Irys
Corvus	corone corone	D_Ko_C04	blood	Germany, Konstanz	BioNano Irys

Corvus	corone corone	D_Ko_C13	blood	Germany, Konstanz	BioNano Irys
Corvus	corone corone	D_Ko_C29	blood	Germany, Konstanz	BioNano Irys
Corvus	corone corone	D_Ko_C36	blood	Germany, Konstanz	BioNano Irys
Corvus	corone corone	E_Vi_C101	blood	Spain,La Sorriba	BioNano Irys
Corvus	corone corone	E_Vi_C103	blood	Spain,La Sorriba	BioNano Irys
Corvus	corone corone	E_Vi_C57	blood	Spain,La Sorriba	BioNano Irys
Corvus	corone corone	E_Vi_C58	blood	Spain,La Sorriba	BioNano Irys
Corvus	monedula	S_To_J17	blood	Sweden, Tovetorp	BioNano Irys
Corvus	corone cornix	S_Up_H03	blood	Sweden, Uppsala	BioNano Irys
Corvus	corone cornix	S_Up_H29	blood	Sweden, Uppsala	BioNano Irys
Corvus	corone cornix	S_Up_H32	blood	Sweden, Uppsala	BioNano Irys
Corvus	corone cornix	S_Up_H37	blood	Sweden, Uppsala	BioNano Irys
Corvus	corone cornix	S_Up_H59	blood	Sweden, Uppsala	BioNano Irys
Corvus	monedula	S_Up_J01	blood	Sweden, Uppsala	BioNano Irys

**Table S6.**

Statistics of optical maps and map assemblies.

Sample	data over 150 Kbp	N50 (Mbp)	Maprate to <i>Corvus cornix</i> assembly	N50	genome size	Eff coverage
D_Ra_C05	313.7037 Gbp	0.2272	52.40%	0.759	1202.661	106.71
E_Vi_C58	149.5706 Gbp	0.2111	44.00%	0.755	1135.633	44.05
S_Up_H59	132.0199 Gbp	0.2109	50.60%	0.798	1136.396	75.20
D_Ko_C29	113.2390 Gbp	0.2164	45.70%	0.647	1154.888	47.49
E_Vi_C101	221.5878 Gbp	0.2566	71.30%	1.064	1306.967	130.50
S_To_J17	200.8957 Gbp	0.2336	36.40%	0.882	1309.932	94.89
S_Up_H32	107.2551 Gbp	0.2171	67.20%	0.763	1108.333	59.74
S_Up_J01	188.0292 Gbp	0.2438	29.30%	0.812	1201.969	73.28
D_Ko_C04	58 Gbp	0.1426	49.70%	0.223	529.43	19.89
D_Ko_C13	48.0589 Gbp	0.1978	54.30%	0.4	1291.57	32.78
D_Ko_C36	141.6023 Gbp	0.2278	69.00%	1.044	1236.42	82.23
E_Vi_C103	194.30 Gbp	0.2516	65.20%	0.848	1207.24	93.00
E_Vi_C57	356.49 Gbp	0.2167	55.80%	0.726	1449.28	166.50
S_Up_H03	178.58 Gbp	0.2311	66.50%	0.826	1192.34	89.78
S_Up_H29	141.49 Gbp	0.2488	70.70%	0.824	1203.84	85.12
S_Up_H37	166.40 Gbp	0.2411	68.40%	0.829	1216.61	99.61