

Supplemental table 1 List of proteins identified from Cry1Ac, Cy1Ab, and Cry1Bd samples

Protein Name	Accession /Gene ID	pI/Kd	Cry1Ac		Cry1Ab		Cry1Bd		Sequence coverage	Diff(MH+)	Charge	GO Annotation	GPI-anchor
			Identified Peptides	Unqieue Peptides	Identified Peptides	Unqieue Peptides	Identified Peptides	Unqieue Peptides					
40S ribosomal protein S15	Px012306	10.44/16.9	1	1	2	1	2	1	0.0714	17609.57	GO:0003723	No	
40S ribosomal protein S3a	Px008082	9.63/30.3	1	1	1	1	1	1	0.0833	7926.23	GO:0003735	No	
60S ribosomal protein L31	Px002905	10.66/14.3	1	1	1	1	1	1	0.0645	14291.3	GO:0003735	No	
Acetylcholinesterase	Px008913	5.20/90.0	21	1	19	1	30	1	0.0162	76052.16	GO:0004104	No	
Acetylcholinesterase	Px003736	5.64/71.5	2	1	1	1	1	1	0.0188	71545.67	GO:0001507	No	618
Actin	Px003840	5.22/40.7	2	1	23	11	5	2	0.0559	41776.36	GO:0005524	No	
Adenosylhomocysteinase	Px008709	5.73/47.4	2	2	4	1	9	2	0.0395	47470.15	GO:0004013	No	
APN2	Px001705	5.39/196.3	1	1	5	1	5	2	0.0189	107269.89	unknown	No	1726
Basic juvenile hormone-suppressible protein 2	Px007030	8.85/89.7	4	2	3	2	1	1	0.0079	91063.55	GO:0005344	No	
Beta-1,4-N-acetylgalactosaminyltransferase bre-4	Px015844	9.08/46.2	1	1	1	1	1	1	0.0196	46139.49	GO:0005975	No	
Cadherin	Px012847	4.30/190.3	4	1	1	1	2	1	0.0052	191109.36	GO:0005509	No	
Heat shock protein 68	Px010237	5.52/69.0	2	1	2	2	1	1	0.0144	69306.56	GO:0005524	No	
Histone H4	Px014175	11.36/11.3	4	2	3	2	6	3	0.2718	11381.23	GO:0000786	No	
Olfactory receptor	Px006353	7.53/66.4	1	1	4	1	3	1	0.0124	46280.98	GO:0004984	No	
PBAN-type neuropeptides	Px008336	8.34/33.9	1	1	2	1	1	1	0.0415	21835.54	GO:0005184	No	
Ryanodine receptor 44F	Px013237	5.62/508.1	8	4	18	8	18	8	0.0066	577196.17	GO:0005262	No	
Tropomyosin-1	Px002682	5.00/38.6	1	1	2	2	1	1	0.0317	32543.9	unknown	No	
Arylphorin subunit alpha	Px007024	6.06/79.1	1	1	2	1			0.0072	82678.57	GO:0005344	No	
Chitinotrioidase-1	Px005376	4.70/43.3	1	1	1	1			0.0233	41569.46	GO:0003824	No	
CYP9F2	Px014982	6.44/53.1	1	1			1	1	0.0154	60005.29	GO:0004497	No	
Esterase FE4	Px000515	5.78/61.5	3	2			3	2	0.0543	14307.23	Unknown	No	
Histidyl-tRNA synthetase	Px007115	6.43/68.6	1	1			1	1	0.0738	16400.78	GO:0000166	No	
Stromal cell-derived factor 2	Px012100	6.01/9.1	1	1			1	1	0.0679	24384.74	GO:0016020	No	
Tyrosine 3-monooxygenase	Px004684	5.24/63.0	3	1			2	1	0.0089	63032.03	GO:0004497	No	
Basic juvenile hormone-suppressit Esterase B1	Px007031	8.83/91.0			2	2	2	2	0.0249	91097.17	GO:0005344	No	
	Px017995	5.90/59.2			4	1	1	1	0.032	59230.78	Unknown	No	
Glutamate-gated chloride channel	Px005659	8.93/47.7			2	1	1	1	0.0224	51327.23	GO:0005230	No	
Hemolin	Px013480	5.92/47.3			4	1	3	1	0.0169	44839.55	GO:0005515	No	
Ultraspiracle protein	Px005201	8.29/51.9			2	2	3	1	0.0242	46928.49	GO:0003677	No	
<b>Cry1Ac</b>	<b>ADD12104</b>		<b>52</b>	<b>17</b>					<b>0.1494</b>	<b>132337.95</b>			
40S ribosomal protein S21	gjl74787517	7.67/9.1	1	1					0.1205	9102.36	Unknown	No	
60S ribosomal protein L29	Px001624	11.39/8.5	1	1					0.1096	8530.87	GO:0003735	No	
APN4	Px003755	5.63/195.6	1	1					0.0659	19183.34	GO:0006508	No	
APNA	Px003754	5.34/210.2	3	1					0.0088	102590.4	GO:0006508	No	1846
Collagenase	Px007902	8.56/32.2	1	1					0.0342	30963.5	GO:0003824	No	
CYP9G4	198444879	8.31/59.7	1	1					0.0097	59757.12	Unknown	No	
Cytochrome P450 4C1	Px006053	8.40/98.1	2	1					0.0621	16590.77	GO:0004497	No	
Glycerolaldehyde-3-phosphate dehydrogenase	Px004328	6.54/35.4	1	1					0.0271	35468.06	GO:0003824	No	
Heat shock protein 70 A2	Px003972	5.40/72.4	2	1					0.0232	47140.94	GO:0005524	No	
Phosphatidylserine receptor-like protein	Px011742	9.44/25.9	1	1					0.0199	46776.93	GO:0005515	No	
<b>Cry1Ab</b>	<b>AAW31761</b>				<b>50</b>	<b>20</b>			<b>0.1775</b>	<b>130779.29</b>			
AMP deaminase 2	Px001868	6.47/66.1			2	1			0.043	30066.66	GO:0003876	No	
Acetyl-CoA carboxylase	Px000763	6.19/110.0			1	1			0.0659	17922.41	GO:0003824	No	
Antichymotrypsin-1	Px010990	5.59/43.6			1	1			0.0279	43241.08	GO:0004867	No	
Arginine kinase	Px006701	7.66/55.3			1	1			0.0451	39660.61	GO:0003824	No	
Cap 'n' collar isoform C	Px006191	4.94/119.6			1	1			0.0109	82285.69	GO:0003677	No	
CDKAL1-like protein	Px017283	8.49/66.5			1	1			0.0166	60605.96	GO:0003824	No	
Centromere/kinetochore protein zw10 homolog	Px012152	5.54/84.2			1	1			0.0446	30827.34	GO:0000775	No	
Chemosensory protein CSP1	Px012265	5.61/17.2			2	2			0.1316	17231.15	Unknown	No	
DnaJ homolog subfamily A membe	Px002616	6.00/43.7			1	1			0.0536	18925.98	GO:0006457	No	
Fatty acid-binding protein 1	Px012916	5.28/16.0			1	1			0.1061	14705.57	GO:0005488	No	
General odorant-binding protein 2	Px011571	5.12/18.5			1	1			0.0576	15888.15	GO:0005549	No	
Phenoloxidase subunit 2	Px002274	6.80/80.9			1	1			0.0117	78514.8	GO:0005344	No	
Spatzel protein	Px011437	5.57/39.7			1	1			0.0982	12509.96	GO:0005506	No	
Venom carboxylesterase-6	Px005687	4.46/70.5			2	1			0.0703	14052.88	Unknown	No	
Zinc metalloproteinase nas-4	Px002993	5.04/33.2			1	1			0.0341	33242.79	GO:0004222	No	
<b>Cry1Bd</b>	<b>Q9ZAZ5</b>						<b>45</b>	<b>11</b>	<b>0.0772</b>	<b>139653.7</b>			
60S ribosomal protein L10	Px017402	9.90/25.5					1	1	0.0365	25490.37	GO:0003735	No	
60S ribosomal protein L35	Px008425	10.70/14.8					1	1	0.065	14418.27	GO:0003735	No	
6-phosphogluconate dehydrogenase	Px007863	7.57/56.7					1	1	0.0241	27568.43	GO:0003824	No	
ATP synthase F0 subunit 8	478432847	10.00/7.0					1	1	0.1091	7086.42	Unknown	No	1
β-1,3-glycosyltransferase 5	Px005927	8.89/35.1					1	1	0.0941	9721.17	GO:0006486	No	1
Carbamoyl-phosphate synthase large chain	Px000239	5.19/152.9					1	1	0.0247	31786.06	GO:0003824	No	
Dopa decarboxylase	Px011202	6.00/54.1					1	1	0.0117	48050.76	GO:0003824	No	
Glucosinolate sulfatase	Px018104 Px018105	5.07/60.7					1	1	0.015	59089.12	Unknown	No	N signal 1
Guanine nucleotide-binding protein subunit beta-like protein	Px013085	7.64/35.9					1	1	0.0345	35940.29	GO:0005515	No	
Isocitrate dehydrogenase	Px017148	6.53/46.6					1	1	0.0474	26239.13	GO:0000287	No	
Peptidoglycan recognition protein	Px015209	4.82/19.9					1	1	0.0667	21492.46	GO:0008745	No	
Protein kinase C	Px006878	5.97/61.5					1	1	0.0119	76409.68	GO:0004672	No	