Table S1. Listing of potential expressed ORFs in ZH06/20

ORF	Nucleotide position	MW (kDa)	pI	Conserved domain or signature	Match				Predicted structure and/or function
					BlastP score	% Identity	Accession no.	Species	
ORF001L	222-1268(1047)	39.79	8.19	WcaG	722	99.71	QLI60785.1	SDDV(3 beta-hydroxysteroid dehydrogenase)	
ORF002L	1272-2216(945)	36.64	8.36		655	100.00	QLI60784.1	SDDV(hypothetical protein)	ANK
					55	24.27	QCQ67799.1	ECIV(ankyrin repeat-containing protein)	
ORF003L	2200-2748(549)	20.72	4.56		374	100.00	QLI60783.1	SDDV(hypothetical protein)	
					170	53.09	AMM04443.1	ISKNV037L	
					167	52.44	QCQ67800.1	ECIV045	
ORF004L	2796-3203(408)	15.06	10.54		269	100.00	QLI60782.1	SDDV(hypothetical protein)	TM
					178	64.93	QCQ67797.1	ECIV(hypothetical protein)	
					103	46.15	AMM04520.1	ISKNV131L	
ORF005R	3234-3815(582)	22.77	8.46	PHA03096	404	100.00	QLI60781.1	SDDV(putative E3 ubiquitin-protein ligase makorin-1)	
					64	37.96	QCQ67781.1	ECIV(RING E3 ubiquitin ligase)	
					61.2	31.87	NP_612234.1	ISKNV(putative zinc finger protein)	
ORF006L	3800-5143(1344)	50.50	4.69	Ank_2	926	100.00	QLI60780.1	SDDV(Serine/threonine-protein phosphatase 6 regulatory ankyrin repeat subunit B)	ANK
					313	39.16	QCQ67799.1	ECIV(ankyrin repeat-containing protein)	
					101	24.01	NP_612341.1	ISKNV119L	
ORF007R	5207-6670(1464)	56.32	7.37		1009	100.00	QLI60779.1	SDDV(hypothetical protein)	
					240	32.23	QCQ67801.1	ECIV(ankyrin repeat-containing protein)	
ORF008R	6722-12394(5673)	211.70	6.72	Drf_FH1 Poxvirus_B22(pfam06346)	3841	97.67	QLI60778.1	SDDV(hypothetical protein)	signal peptide Pfam:Poxvirus_B22R_C TM
				Poxvirus_B22R_C super family(cl16146)	1825	52.11	QCQ67814.1	ECIV059	

ORF	Nucleotide position	MW (kDa)	pI	Conserved domain or signature	Match				Predicted structure and/or function
					BlastP score	% Identity	Accession no.	Species	
ORF009R	12411-15122(2712)	104.01	8.79	SNF2_N	1902	100.00	QLI60777.1	SDDV(putative helicase)	DEXDc Pfam:Helicase_C
				DEAD-like_helicase_C	1324	68.28	QCQ67815.1	ECIV(DEAD-like helicase)	
					787	45.76	NP_612285.1	ISKNV(putative NTPase)	
ORF010R	15200-15646(447)	16.54	4.26		296	99.32	QLI60776.1	SDDV(Uncharacterized RING finger protein)	
					67	35.96	QCQ67816.1	ECIV(RING E3 ubiquitin ligase)	
					31	36.36	NP_612287.1	ISKNV065L	
ORF011R	15683-15997(315)	12.20	7.74		214	100.00	QLI60775.1	SDDV(Tripartite motif-containing protein)	
					150	61.90	QCQ67817.1	ECIV(RING E3 ubiquitin ligase)	
					88	38.61	AMM04418.1	ISKNV008L	
ORF012R	16002-16325(324)	12.38	7.30		224	100.00	QLI60774.1	SDDV(hypothetical protein)	ANK
					140	59.63	QCQ67818.1	SDDV(hypothetical protein)	
ORF013R	16331-16888(558)	21.06	7.92	NIF(pfam03031)	382	100.00	QLI60773.1	SDDV(putative CTD phosphatase-like protein)	CPDc
					282	71.12	QCQ67819.1	ECIV(NIF/NLI interacting factor)	
					181	53.37	NP_612227.1	ISKNV005L	
ORF014R	16893-17351(459)	17.64	7.20		315	100.00	QLI60772.1	SDDV(hypothetical protein)	TM
ORF015R	17356-18327(972)	36.78	6.35	serpin(cd00172)	666	100.00	QLI60771.1	SDDV(Serine proteinase inhibitor)	SERPIN
					233	38.82	QCQ67786.1	ECIV(serpin)	
ORF016R	18406-18783(378)	14.79	8.53	CTH1 super family(cl34885)	256	99.20	QLI60770.1	SDDV(mRNA decay activator protein)	
ORF017R	18983-19531(549)	20.83	7.88	BI-1-like super family(cl00473)	366	99.45	QLI60769.1	SDDV(Protein lifeguard)	
ORF018R	19593-20774(1182)	45.16	6.90	PTP_DSP_cys super family (cl28904)	818	100.00	QLI60768.1	SDDV(hypothetical protein)	

ORF	Nucleotide position	MW (kDa)	pI	Conserved domain or signature	Match				Predicted structure and/or function
					BlastP score	% Identity	Accession no.	Species	
					418	52.79	QCQ67843.1	ECIV088	
					118	25.60	NP_612304.1	ISKNV082L	
ORF019L	20802-21314(513)	19.23	4.73		349	100.00	QLI60767.1	SDDV(hypothetical protein)	
					161	46.34	QCQ67842.1	ECIV087	
ORF020L	21322-21816(495)	18.67	4.14		333	100.00	QLI60766.1	SDDV(hypothetical protein)	
					171	50.90	QCQ67841.1	ECIV086	
ORF021R	21901-24768(2868)	111.11	6.15		1982	99.90	QLI60765.1	SDDV(putative structural protein)	
					1078	54.45	QCQ67840.1	ECIV085	
					578	36.30	NP_612298.1	ISKNV076L	
ORF022R	24793-25215(423)	16.15	9.03	Macro_Poa1p-like(cd02901)	295	100.00	QLI60764.1	SDDV(ADP-ribose glycohydrolase)	
ORF023R	25228-25791(564)	21.66	7.98	NK super family(cl17190)	389	99.47	QLI60763.1	SDDV(Thymidylate kinase)	Pfam: Thymidylate _ kin CPDc
					180	43.39	QCQ67762.1	ECIV(thymidylate kinase)	
ORF024R	25794-27296(1503)	57.72	7.91	PTP_DSP_cys super family (cl28904)	1044	100.00	QLI60762.1	SDDV(mRNA-capping enzyme)	PTPc_DSPc Pfam:mRNA_cap _ enzyme
				Adenylation_ mRNA_capping (cd07895)	600	59.80	QCQ67761.1	ECIV(mRNA capping enzyme)	
				mRNA_cap_C (pfam03919)	423	44.91	NP_612286.1	ISKNV(putative RNA guanylytransferase)	
ORF025R	27297-27752(456)	17.49	8.54		203	100.00	QLI60761.1	SDDV(hypothetical protein)	
					49	39.08	QCQ67760.1	ECIV005	
ORF026L	27800-28402(603)	23.29	9.78		414	100.00	QLI60760.1	SDDV(hypothetical protein)	
					193	54.46	QCQ67811.1	ECIV056	
ORF027R	28585-29403(819)	30.60	9.27	RNase_HI_ eukaryote_like (cd09280)	563	100.00	QLI60759.1	SDDV(Ribonuclease)	Pfam:RNase_H

ORF	Nucleotide position	MW (kDa)	pI	Conserved domain or signature	Match				Predicted structure and/or function
					BlastP score	% Identity	Accession no.	Species	
ORF028L	29575-30489(915)	33.89	4.77	Cauli_VI (pfam01693) Ank_2(pfam12796)	636	100.00	QLI60758.1	SDDV(hypothetical protein)	ANK
					378	57.43	QCQ67759.1	ECIV(ankyrin repeat-containing protein)	
					120	35.03	NP_612347.1	ISKNV(putative ankyrin repeat protein)	
ORF029R	30513-31610(1098)	41.90	5.27		751	99.73	QLI60757.1	SDDV(hypothetical protein)	ANK
					340	49.59	QCQ67758.1	ECIV(ankyrin repeat-containing protein)	
ORF030L	31579-32691(1113)	40.76	7.66	SLC5-6-like_sbd super family(cl00456)	736	100.00	QLI60756.1	SDDV(Sodium-coupled neutral amino acid transporter)	Pfam:Aa_trans
					463	62.74	QCQ67756.1	ECIV(transmembrane amino acid transporter protein)	
					199	33.88	NP_612223.1	ISKNV001L	
ORF031L	32698-33162(465)	18.23	6.34	RNA_pol_Rpb5_C super family(cl00883)	322	100.00	QLI60755.1	SDDV(hypothetical protein)	Pfam:RNA_pol_Rpb5_C
					167	50.31	QCQ67863.1	ECIV108	
					109	34.62	AMM04413.1	ISKNV(DNA dependent RNA polymerase subunit H-like protein)	
ORF032L	33152-33649(498)	18.94	7.74		337	100.00	QLI60754.1	SDDV(hypothetical protein)	
					197	50.00	QCQ67862.1	ECIV107	
					86	28.48	AMM04500.1	ISKNV104L	
ORF033L	33661-34179(519)	19.46	6.86		360	100.00	QLI60753.1	SDDV(hypothetical protein)	
					262	70.76	QCQ67861.1	ECIV106	
					166	49.12	NP_612323.1	ISKNV101L	
ORF034R	34178-35062(885)	33.96	8.12		591	100.00	QLI60752.1	SDDV(hypothetical protein)	
					231	43.20	QCQ67860.1	ECIV105	

ORF	Nucleotide position	MW (kDa)	pI	Conserved domain or signature	Match				Predicted structure and/or function
					BlastP score	% Identity	Accession no.	Species	
ORF035R	35052-38603(3552)	133.01	8.12	RNAP_largest_subunit_N super family(cl19114)	2468	100.00	QLI60751.1	SDDV(DNA-directed RNA polymerase II subunit)	RPOLA_N
				RNAP_largest_subunit_C super family(cl29012)	1892	74.70	QCQ67859.1	ECIV(DNA-dependent RNA polymerase II largest subunit)	Pfam:RNA_pol_Rpb1_4
				rpoC2_cyan super family(cl37097)	1375	57.99	NP_612250.1	ISKNV028L	Pfam:RNA_pol_Rpb1_5
ORF036L	38654-39304(651)	25.90	8.71		397	99.48	QLI60750.1	SDDV(hypothetical protein)	
					346	76.50	QCQ67787.1	ECIV032	
ORF037L	39405-40073(669)	26.70	8.46		439	100.00	QLI60749.1	SDDV(hypothetical protein)	
ORF038R	40073-41038(966)	37.03	7.88	PTZ00217 super family (cl36527)	631	100.00	QLI60748.1	SDDV(Flap endonuclease)	XPGN XPGI HhH2
					471	74.10	QCQ67858.1	ECIV(Flap endonuclease)	
					320	49.84	NP_612249.1	ISKNV(putative DNA repair protein)	
ORF039L	41062-42135(1074)	39.35	6.01	PRK08581 super family (cl35718)	706	99.16	QLI60747.1	SDDV(hypothetical protein)	signal peptide TM
					105	42.06	QCQ67770.1	ECIV015	
ORF040L	42153-42731(579)	21.72	9.09		396	100.00	QLI60746.1	SDDV(hypothetical protein)	SCOP:d1b67a_
					244	61.26	QCQ67771.1	ECIV(short chain dehydrogenase)	
					118	39.10	AMM04431.1	ISKNV024R	
ORF041L	42734-45640(2907)	110.41	8.19	PTZ00166 super family (cl36522)	2022	99.90	QLI60745.1	SDDV(DNA polymerase)	POLBc
					1443	70.76	QCQ67772.1	ECIV(DNA polymerase family B)	
					985	51.07	NP_612241.1	ISKNV(putative DNA polymerase)	
ORF042R	45679-45888(210)	7.99	13.03		112	100.00	QLI60744.1	SDDV(hypothetical protein)	SCOP:d1e5xa_
					44	69.70	NP_612240.1	ISKNV018L	
ORF043L	45985-46239(255)	10.18	10.39		159	100.00	QLI60743.1	SDDV(hypothetical protein)	TM

ORF	Nucleotide position	MW (kDa)	pI	Conserved domain or signature	Match				Predicted structure and/or function
					BlastP score	% Identity	Accession no.	Species	
ORF044R	46252-46548(297)	10.70	7.03		199	100.00	QLI60742.1	SDDV(hypothetical protein)	TM
					92	51.00	QCQ67773.1	ECIV018	
					39	31.37	AMM04427.1	ISKNV020L	
ORF045R	46548-47177(630)	23.69	4.51		419	99.51	QLI60741.1	SDDV(hypothetical protein)	
					249	62.56	QCQ67774.1	ECIV019	
					103	29.13	NP_612238.1	ISKNV016L	
ORF046L	47203-48045(843)	32.89	8.24		581	100.00	QLI60740.1	SDDV(hypothetical protein)	
					372	60.36	QCQ67785.1	ECIV(IKI3 family protein)	
					193	37.01	NP_612237.1	ISKNV015R	
ORF047L	48048-49913(1866)	69.00	4.36	Macro_OAADPr_deacetylase (cd02908)	1280	97.95	QLI60739.1	SDDV(ADP-ribose glycohydrolase)	internal repeat 1 A1pp
				RRM_SF super family (cl17169)	600	49.69	QCQ67784.1	ECIV(macro domain-containing protein)	
					155	50.29	NP_612244.1	ISKNV022L	
ORF048R	49935-50261(327)	12.87	8.81		231	100.00	QLI60738.1	SDDV(hypothetical protein)	
					127	57.41	QCQ67783.1	ECIV028	
ORF049L	50268-51875(1608)	62.25	8.90		1125	100.00	QLI60737.1	SDDV(hypothetical protein)	TM
					484	47.14	QCQ67782.1	ECIV(serine/threonine protein kinase)	
					115	25.89	NP_612235.1	ISKNV013R	
ORF050L	51811-52155(345)	13.29	8.58	KilA-N super family (cl29320)	235	100.00	YP_009163825.1	SDDV064R	
					61	32.71	QLI60781.1	SDDV(putative E3 ubiquitin-protein ligase makorin-1)	
					130	57.69	QCQ67781.1	ECIV(RING E3 ubiquitin ligase)	
					64	36.94	NP_612234.1	ISKNV(putative zinc finger protein)	
ORF051R	52185-52454(270)	10.15	8.15		177	100.00	QLI60736.1	SDDV(hypothetical protein)	TM
					40	31.43	NP_612233.1	ISKNV011L	
ORF052R	52458-52835(378)	14.49	8.28		263	100.00	QLI60735.1	SDDV(hypothetical protein)	
					121	41.94	QCQ67780.1	ECIV025	

ORF	Nucleotide position	MW (kDa)	pI	Conserved domain or signature	Match				Predicted structure and/or function
					BlastP score	% Identity	Accession no.	Species	
ORF053L	52842-53111(270)	10.02	9.57		184	100.00	QLI60734.1	SDDV(hypothetical protein)	
					51	37.84	QQZ00464.1	ISKNV(hypothetical protein IJGMMPBP_00011)	
ORF054R	53143-53358(216)	7.80	9.20		143	100.00	QLI60733.1	SDDV(hypothetical protein)	TM
					75	68.06	AMM04525.1	ISKNV012L	
ORF055L	53386-54729(1344)	50.28	7.46		919	100.00	QLI60732.1	SDDV(hypothetical protein)	
					298	36.48	QCQ67779.1	ECIV024	
					64	21.32	NP_612230.1	ISKNV008R	
ORF056R	54791-56341(1551)	55.78	8.28	L1R_F9L super family (cl28088)	1056	100.00	QLI60731.1	SDDV(putative myristoylated protein)	TM
					728	67.64	QCQ67778.1	ECIV(myristylated membrane protein)	
					386	43.53	NP_612229.1	ISKNV007L	
ORF057R	56345-57706(1362)	49.97	6.77	Capsid_NCLDV (pfam04451)	944	100.00	QLI60730.1	SDDV(Major capsid protein)	Pfam:Capsid_N Pfam:Capsid_NCLDV
				Capsid_N super family(cl25189)	774	81.06	QCQ67796.1	ECIV MCP	
					664	68.57	NP_612228.1	ISKNV(putative MCP)	
ORF058L	57799-58365(567)	22.00	6.08		390	100.00	QLI60729.1	SDDV(hypothetical protein)	
					73	31.29	QCQ67838.1	ECIV083	
ORF059L	58421-58828(408)	15.95	6.83		219	84.44	QLI60728.1	SDDV(hypothetical protein)	internal repeat 1
					105	44.63	QCQ67798.1	ECIV043	
ORF060L	58872-59420(549)	20.84	6.60	Sar1 (cl00264)	380	100.00	QLI60727.1	SDDV(GTP-binding protein)	SAR
ORF061L	59449-60273(825)	31.79	7.73	PKc_like super family (cl21453)	568	100.00	QLI60726.1	SDDV(Serine/threonine-protein kinase/endoribonuclease)	STYKc
ORF062L	60342-61256(915)	35.69	6.96		635	99.34	QLI60725.1	SDDV(hypothetical protein)	
					251	45.45	QCQ67808.1	ECIV053	
					200	36.96	NP_612294.1	ISKNV072R	
ORF063L	61261-61908(648)	24.85	8.13		442	100.00	QLI60724.1	SDDV(hypothetical protein)	
					72	29.30	QCQ67792.1	ECIV037	

ORF	Nucleotide position	MW (kDa)	pI	Conserved domain or signature	Match				Predicted structure and/or function
					BlastP score	% Identity	Accession no.	Species	
ORF064L	61974-62939(966)	36.92	4.92	Ferritin_like super family (cl00264)	669	100.00	QLI60723.1	SDDV(Ribonucleoside-diphosphate reductase subunit)	
					499	75.45	QCQ67809.1	ECIV(ribonucleotide reductase beta subunit)	
					350	57.19	NP_612246.1	ISKNV(putative ribonucleotide reductase small subunit)	
ORF065L	62973-63602(630)	25.10	9.58		430	99.04	QLI60722.1	SDDV(hypothetical protein)	
ORF066L	63649-64422(774)	29.62	6.34		531	100.00	QLI60721.1	SDDV(hypothetical protein)	
					95	27.11	QCQ67776.1	ECIV021	
ORF067L	64434-65132(699)	25.96	7.59	TNFRSF super family (cl22855)	471	100.00	QLI60720.1	SDDV(Tumor necrosis factor receptor superfamily member)	TNFR TM
ORF068L	65180-65887(708)	26.93	6.16	PTZ00164 super family (cl36520)	494	99.57	QLI60719.1	SDDV(Thymidylate synthase)	Pfam:Thymidylat_synt
ORF069L	66036-66824(789)	30.61	7.83	EEP super family (cl00490)	546	100.00	QLI60718.1	SDDV(Deoxyribonuclease-1)	DNaseIc
					284	53.88	QCQ67810.1	ECIV(deoxyribonuclease 1)	
ORF070R	66867-67409(543)	20.98	4.78		378	100.00	QLI60717.1	SDDV(hypothetical protein)	signal peptide
					117	36.31	QCQ67807.1	ECIV052	
ORF071L	67434-68381(948)	35.82	4.69	Serpin (pfam00079)	659	100.00	QLI60716.1	SDDV(Serine proteinase inhibitor)	SERPIN
					247	42.45	QCQ67812.1	ECIV(serpin)	
ORF072L	68456-69364(909)	34.89	3.58		597	99.67	QLI60715.1	SDDV(hypothetical protein)	
					130	36.74	QCQ67844.1	ECIV089	
ORF073L	69569-72301(2733)	104.84	5.22	primase_Cterm super family (cl36938)	1907	100.00	QLI60713.1	SDDV(putative helicase)	
				D5_N (pfam08706)	1264	65.51	QCQ67845.1	ECIV(D5 family NTPase)	

ORF	Nucleotide position	MW (kDa)	pI	Conserved domain or signature	Match				Predicted structure and/or function
					BlastP score	% Identity	Accession no.	Species	
				PriCT_2 (pfam08707)	940	51.24	NP_612331.1	ISKNV109L	
ORF074R	72308-73051(744)	27.86	7.84		511	100.00	QLI60712.1	SDDV(hypothetical protein)	
					456	87.45	QCQ67846.1	ECIV(proliferating cell nuclear antigen)	
					255	54.47	NP_612334.1	ISKNV112R	
ORF075L	73094-73612(519)	20.26	6.14		352	100.00	QLI60711.1	SDDV(hypothetical protein)	
					304	83.72	QCQ67848.1	ECIV093	
					187	60.99	AMM04511.1	ISKNV119L	
ORF076L	73623-76238(2616)	100.23	7.56		1835	100.00	QLI60710.1	SDDV(putative kinase)	SCOP:d1kq4a_
					940	52.11	QCQ67849.1	ECIV(tyrosine kinase)	Blast:CAP10
					399	30.52	NP_612336.1	ISKNV114L	SCOP:d1rpxa_ d1ks9a1 d1b6cb_
ORF077R	76324-77367(1044)	40.04	6.90		729	100.00	QLI60709.1	SDDV(Immediate-early protein ICP-46 homolog)	
					444	60.34	QCQ67850.1	ECIV(immediate early protein ICP-46)	
					235	40.29	NP_612337.1	ISKNV115R	
ORF078R	77374-78111(738)	27.97	7.36	AAA (smart00382)	511	100.00	QLI60708.1	SDDV(hypothetical protein)	SCOP:d1e9ra_
					466	100.00	QKR72226.1	SDDV(ATPase)	
					448	88.70	QCQ67851.1	ECIV(ATPase)	
					372	73.39	NP_612345.1	ISKNV(putative adenosine triphosphatase)	
ORF079L	78140-78832(693)	25.97	6.73	DUF2738 super family (cl12506)	478	100.00	QLI60707.1	SDDV(hypothetical protein)	Pfam:DUF2738
					356	70.61	QCQ67853.1	ECIV098	
					139	37.18	NP_612340.1	ISKNV118L	
ORF080R	78865-79674(810)	30.67	5.85		552	99.63	QLI60706.1	SDDV(hypothetical protein)	coiled coil
					310	55.51	QCQ67855.1	ECIV100	
					167	38.55	NP_612318.1	ISKNV096L	

ORF	Nucleotide position	MW (kDa)	pI	Conserved domain or signature	Match				Predicted structure and/or function
					BlastP score	% Identity	Accession no.	Species	
ORF081R	79690-80826(1137)	43.35	5.93		789	100.00	QLI60705.1	SDDV(hypothetical protein)	coiled coil
					360	47.56	QCQ67856.1	ECIV101	
					33	35.71	NP_612317.1	ISKNV095L	
ORF082R	80823-81773(951)	34.92	9.65		638	100.00	QLI60704.1	SDDV(hypothetical protein)	
					300	49.85	QCQ67805.1	ECIV(proteasome accessory factor)	
					94	32.01	NP_612315.1	ISKNV093L	
ORF083L	81795-81974(180)	6.99	4.02		121	100.00	QLI60703.1	SDDV(hypothetical protein)	TM
					41	38.00	NP_612314.1	ISKNV092R	
ORF084R	82002-83072(1071)	39.81	8.51		708	97.75	QLI60702.1	SDDV(putative membrane protein)	Pfam:Pox_G9-A16 TM
					462	66.01	QCQ67806.1	ECIV051	
					287	49.09	AMM04534.1	ISKNV(myristylated membrane protein)	
ORF085R	83085-83597(513)	18.91	4.36		349	99.41	QLI60701.1	SDDV(hypothetical protein)	signal peptide
					187	56.10	QCQ67807.1	ECIV052	
					93	33.99	AMM04471.1	ISKNV066L	
ORF086L	83594-85297(1704)	65.86	7.20		1168	100.00	QLI60700.1	SDDV(hypothetical protein)	
					664	57.42	QCQ67791.1	ECIV036	
					219	29.36	NP_612310.1	ISKNV088R	
ORF087R	85296-85736(441)	16.69	8.93	SAP (pfam02037)	297	100.00	QLI60699.1	SDDV(putative SAP domain-containing protein)	SAP
					199	64.83	QCQ67789.1	ECIV(SAP domain-containing protein)	
					121	43.17	AMM04494.1	ISKNV(SAP domain-containing ribonucleoprotein)	
ORF088L	85753-87717(1965)	72.42	6.75	SpoVK (COG0464) CDC48_N (smart01073) AAA (pfam00004)	1343	100.00	QLI60698.1	SDDV(Vesicle-fusing ATPase)	AAA

ORF	Nucleotide position	MW (kDa)	pI	Conserved domain or signature	Match				Predicted structure and/or function
					BlastP score	% Identity	Accession no.	Species	
ORF089L	87765-88538(774)	29.38	7.90	RIBOc super family (cl00258)	533	100.00	QLI60697.1	SDDV(putative ribonuclease)	RIBOc
				Rnc super family (cl33956)	377	67.70	QCQ67765.1	ECIV(ribonuclease III)	
					273	48.03	NP_612309.1	ISKNV(putative ribonuclease)	
ORF090L	88541-88981(441)	17.19	8.75		304	100.00	QLI60696.1	SDDV(hypothetical protein)	
					149	52.90	NP_612308.1	ISKNV086L	
ORF091L	89018-89578(561)	21.75	6.10		384	98.92	QLI60695.1	SDDV(hypothetical protein)	
					118	39.66	QCQ67767.1	ECIV012	
					47	26.04	NP_612343.1	ISKNV121R	
ORF092R	89730-90110(381)	14.18	7.41		256	100.00	QLI60694.1	SDDV(hypothetical protein)	
					67	25.60	QCQ67768.1	ECIV013	
ORF093R	90112-90489(378)	14.22	7.24		261	100.00	QLI60693.1	SDDV(hypothetical protein)	
					103	35.77	QCQ67768.1	ECIV013	
ORF094R	90521-90808(288)	10.82	7.95		197	100.00	QLI60692.1	SDDV(hypothetical protein)	
					132	68.42	QCQ67769.1	ECIV014	
ORF095R	91126-94077(2952)	112.79	5.73	PRK12678 super family (cl36163)	1997	100.00	QLI60691.1	SDDV(hypothetical protein)	
					426	39.10	QCQ67836.1	ECIV081	
					172	28.93	NP_612284.1	ISKNV062L	
ORF096R	94082-94921(840)	32.67	9.35	Pox_VLTF3 super family (cl37538)	582	100.00	QLI60690.1	SDDV(putative transcription factor)	Pfam:Pox_VLTF3
					427	71.58	QCQ67834.1	ECIV(transcription factor)	
					214	41.64	NP_612283.1	ISKNV061L	
ORF097R	94900-95196(297)	11.25	6.08		201	98.98	QLI60689.1	SDDV(hypothetical protein)	
					137	64.44	QCQ67833.1	ECIV078	
					67	40.45	NP_612279.1	ISKNV057L	

ORF	Nucleotide position	MW (kDa)	pI	Conserved domain or signature	Match				Predicted structure and/or function
					BlastP score	% Identity	Accession no.	Species	
ORF098R	95200-95835(636)	23.92	5.01		421	100.00	QLI60688.1	SDDV(hypothetical protein)	
					342	78.77	QCQ67832.1	ECIV077	
					252	57.41	NP_612278.1	ISKNV056L	
ORF099R	95841-96659(819)	30.36	10.28	2C_adapt(pfam08793)	547	99.63	QLI60687.1	SDDV(putative serine/threonine-protein kinase)	Pfam:2C_adapt
				2C_adapt super family (cl07414)	235	48.38	QCQ67831.1	ECIV(2-cysteine adaptor domain-containing protein)	
					172	42.44	NP_612277.1	ISKNV055L	
ORF100R	96687-97565(879)	33.55	9.91	2C_adapt(pfam08793)	612	100.00	QLI60686.1	SDDV(hypothetical protein)	Pfam:2C_adapt
				2C_adapt super family (cl07414)	313	51.10	QCQ67830.1	ECIV(2-cysteine adaptor domain-containing protein)	
					126	31.72	NP_612276.1	ISKNV054L	
ORF101R	97572-97778(207)	7.50	9.08		138	100.00	QLI60685.1	SDDV(hypothetical protein)	TM
					75	59.32	QQZ00505.1	ISKNV(hypothetical protein IJGMMPBP_00052)	
ORF102R	97820-98215(396)	14.98	7.83	Bcl-2_like super family (cl02575)	270	98.47	QLI60684.1	SDDV(hypothetical protein)	SCOP:d1k3ka_
					109	39.10	QCQ67829.1	ECIV(Bcl-2 apoptosis regulator protein)	
ORF103L	98181-98432(252)	9.62	6.42		167	100.00	QLI60683.1	SDDV(hypothetical protein)	
ORF104L	98462-98839(378)	14.71	6.45	W2 super family (cl17013)	250	100.00	QLI60682.1	SDDV(Eukaryotic translation initiation factor)	Blast:eIF5C
ORF105L	98845-99198(354)	12.99	8.70	PDGF super family (cl00116)	241	100.00	QLI60681.1	SDDV(Vascular endothelial growth factor A)	signal peptide PDGF
					84	41.18	NP_612270.1	ISKNV048R	
ORF106L	99211-99564(354)	13.39	9.53		239	100.00	QLI60680.1	SDDV(hypothetical protein)	
					155	63.48	QCQ67827.1	ECIV072	
					65	46.67	NP_612269.1	ISKNV047R	
ORF107L	99545-99730 (186)	7.12	9.42		124	100.00	QLI60679.1	SDDV(hypothetical protein)	TM SCOP:d1fnna1

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					BlastP score	% Identity	Accession no.	Species	
ORF108R	99806-100189(384)	14.83	5.29		250	100.00	QLI60678.1	SDDV(hypothetical protein)	
ORF109L	100139-100522(384)	14.46	6.10		267	100.00	QLI60677.1	SDDV(hypothetical protein)	
ORF110R	100571-101266(696)	26.43	9.17	Dcm (COG0270)	486	100.00	QLI60676.1	SDDV(putative DNA (cytosine-5)-methyltransferase)	SCOP:d1dcta_
					310	65.22	QCQ67826.1	ECIV(cytosine DNA methyltransferase)	
					288	61.78	NP_612268.1	ISKNV(putative cytosine DNA methyltransferase)	
ORF111R	101235-102863(1629)	62.69	6.82		1100	99.81	QLI60675.1	SDDV(hypothetical protein)	coiled coil
					213	29.07	QCQ67825.1	ECIV070	
ORF112R	102865-104310(1446)	54.28	4.97		984	100.00	QLI60674.1	SDDV(hypothetical protein)	
					248	33.13	QCQ67824.1	ECIV069	
ORF113R	104316-104678(363)	13.71	8.93	Evr1_Alr (pfam04777)	254	100.00	QLI60673.1	SDDV(putative FAD-linked sulfhydryl oxidase)	Pfam:Evr1_Alr
					204	81.03	QCQ67823.1	ECIV(Ervl/Alr family protein)	
					154	59.48	NP_612265.1	ISKNV043L	
ORF114R	104671-104829(159)	6.42	9.57		94	100.00	QLI60672.1	SDDV(hypothetical protein)	
ORF115L	104846-105946(1101)	42.10	4.61		740	100.00	QLI60671.1	SDDV(hypothetical protein)	
					190	31.27	QCQ67822.1	ECIV067	
ORF116R	105970-107544(1575)	61.28	4.87	Lipoprotein_7 super family (cl25543)	1069	99.81	QLI60670.1	SDDV(hypothetical protein)	
					122	23.11	QCQ67821.1	ECIV(chromosome segregation protein)	
ORF117R	107554-108966(1413)	53.65	4.78		959	100.00	QLI60669.1	SDDV(hypothetical protein)	
ORF118L	108956-110041(1086)	42.07	5.78		729	100.00	QLI60668.1	SDDV(hypothetical protein)	
ORF119R	110065-111045(981)	37.99	4.78		654	99.39	QLI60667.1	SDDV(hypothetical protein)	
ORF120L	111078-112511(1434)	55.16	4.96		936	100.00	QLI60666.1	SDDV(hypothetical protein)	
ORF121L	112471-114024(1554)	59.13	5.45	SHE3 super family (cl25925)	1063	99.81	QLI60665.1	SDDV(hypothetical protein)	

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					BlastP score	% Identity	Accession no.	Species	
ORF122L	114040-115983(1944)	75.06	5.88		1343	99.54	QLI60664.1	SDDV(Serine/threonine-protein phosphatase 6 regulatory ankyrin repeat subunit)	ANK
					496	41.79	QCQ67793.1	ECIV038	
ORF123L	116031-117680(1650)	63.40	4.69		1131	99.82	QLI60663.1	SDDV(hypothetical protein)	ANK
					412	41.22	QCQ67794.1	ECIV039	
ORF124L	117795-117995(201)	7.72	8.71	TFIIS_C (pfam01096)	137	100.00	QLI60662.1	SDDV(DNA-directed RNA polymerase III subunit)	ZnF_C2C2
					91	66.67	QCQ67795.1	ECIV040	
					56	41.54	NP_612251.1	ISKNV029L	
ORF125R	117994-118662(669)	26.12	5.02	NK super family (cl17190)	398	100.00	QLI60661.1	SDDV(putative deoxynucleoside kinase)	Pfam:Dnk
					163	42.78	NP_612254.1	ISKNV(putative thymidine kinase)	
ORF126L	118659-119939(1281)	47.65	5.08	Ank_2 super family (cl39094)	876	100.00	QLI60660.1	SDDV(putative ankyrin repeat protein)	ANK
					156	28.95	QLI60652.1	SDDV(pI332:I347utative ankyrin repeat protein)	
					110	25.00	QCQ67847.1	ECIV(ankyrin repeat-containing protein)	
					95	27.96	NP_612299.1	ISKNV(putative ankyrin repeat protein)	
ORF127R	120008-120721(714)	26.90	7.95	TNFRSF super family (cl22855)	494	100.00	QLI60659.1	SDDV(Tumor necrosis factor receptor superfamily)	signal peptide TNFR TM
ORF128R	120766-123894(3129)	117.22	8.44	RNA_pol_B_RPB2(cd00653)	2190	100.00	QLI60658.1	SDDV(DNA-directed RNA polymerase II subunit)	Pfam:RNA_pol_Rpb2_1 Pfam:RNA_pol_Rpb2_3
				RNA_pol_Rpb2_4(pfam04566)	1788	79.43	QCQ67777.1	ECIV(DNA-dependent RNA polymerase II second largest subunit)	Pfam:RNA_pol_Rpb2_6
					1283	59.60	NP_612256.1	ISKNV(putative DNA-directed RNA polymerase II)	Pfam:RNA_pol_Rpb2_7

ORF	Nucleotide position	MW (kDa)	pI	Conserved domain or signature	Match				Predicted structure and/or function
					BlastP score	% Identity	Accession no.	Species	
ORF129R	123905-125599(1695)	65.04	4.58	Ank_2 super family(cl39094)	1154	99.65	QLI60657.1	SDDV(hypothetical protein)	ANK
					233	29.04	QCQ67793.1	ECIV038	
ORF130R	125645-126583(939)	35.86	8.23	zf-C3HC4_3 (pfam13920)	653	100.00	QLI60656.1	SDDV(hypothetical protein)	RING
ORF131L	126580-126930(351)	13.71	5.70		238	100.00	QLI60655.1	SDDV(hypothetical protein)	
					159	66.09	QCQ67775.1	ECIV020	
					71	42.74	AMM04489.1	ISKNV089R	
ORF132R	126957-127742(786)	30.55	7.04		546	100.00	QLI60654.1	SDDV(hypothetical protein)	
					184	40.30	QCQ67776.1	ECIV021	
ORF133R	127832-128575(744)	28.63	8.48		520	100.00	QLI60653.1	SDDV(hypothetical protein)	
					101	29.58	QCQ67776.1	ECIV021	
ORF134L	128559-129980(1422)	54.21	4.99	PHA03095 super family (cl33707)	967	99.79	QLI60652.1	SDDV(putative ankyrin repeat protein)	ANK
				Ank_2 super family (cl39094)	266	37.19	QCQ67857.1	ECIV(ankyrin repeat-containing protein)	
					91	23.88	NP_612299.1	ISKNV(putative ankyrin repeat protein)	
ORF135L	129996-130907(912)	34.03	4.80	Ank_2 super family(cl39094)	625	99.67	QLI60651.1	SDDV(hypothetical protein)	ANK
					180	36.11	QCQ67799.1	ECIV(ankyrin repeat-containing protein)	SCOP:d1awcb_