List of the cA genes in the 67 LDV genomes

Classification	Species	Genome ID	Protein ID	Annotation	Functional Category
Asfarvirus		NG 001650 1	ND 0427044	G	
	African swine fever virus	NC_001659.1	NP_042704.1	Structural protein p22	Viral particle associated
			NP_042727.1	IAP homolog	Immune system modulation Nucleotide metabolism
			NP_042729.1	Thymidylate kinase	
			NP_042751.1	Lectin-like protein	Immune system modulation Host cell modulation
			NP_042752.1	CD2 homolog Structural protein p54	
			NP_042818.1	Genes of unknown function: 16	Viral particle associated
Baculoviridae					
	Mamestra configurata NPV-A	NC_003529.1	NP_613130.1	Actin-rearrangement-inducing factor	Host cell modulation
			NP_613232.1	Late expression factor 11 (LEF-11)	DNA/RNA processing
				Genes of unknown function: 5	
	Mamestra configurata NPV-B	NC_004117.1	NP_689217.1	Actin-rearrangement-inducing factor Genes of unknown function: 6	Host cell modulation
	Lymantria dispar MNPV	NC_001973.1	NP_047638.1	Capsid associated protein	Viral particle associated
			NP_047640.1	Mucin-like protein	Poorly characterized
			NP 047668.1	Ld-bro-a	Poorly characterized
			NP 047674.1	Late expression factor 6	Poorly characterized
			NP_047679.1	Viral ubiquitin	Translation and protein
			NP 047681.1	Late expression factor 11	metabolism Poorly characterized
			NP 047700.1	Few polyhedra protein	Viral particle formation
			NP 047727.1	Telokin-like protein-20	Poorly characterized
			NP 047742.1	Capsid protein P80	Viral particle associated
			NP_047753.1	dUTPase	Nucleotide metabolism
			NP_047768.1	Occlusion-derived virus envelope protein	Viral particle associated
				E66 (ODV-E66)	
			NP_047783.1	Ld-bro-l	Poorly characterized
			NP_047790.1	Ld-bro-n	Poorly characterized
			NP_047791.1	Ld-bro-o	Poorly characterized
				Genes of unknown function: 20	
	Xestia c-nigrum granulovirus	NC_002331.1	NP_059233.1	Fibroblast growth factor 1	Host cell modulation
			NP_059285.1	Putative inhibitor of apoptosis protein Genes of unknown function: 6	Immune system modulation
Iridovirus					
Xestia c-n ridovirus Lymphocy	Lymphocystis disease virus	NC_005902.1	YP_073512.1	Caspase-1 precursor	Immune system modulation
				Genes of unknown function: 6	
	Invertebrate iridescent virus 6	NC_003038.1		Genes of unknown function: 15	
Mimivirus	Acanthamoeba polyphaga mimivirus	NC_006450.1	YP_142435.1	Ankyrin containing protein	Poorly characterized
	minivii us		YP_142449.1	Ankyrin containing protein	Poorly characterized
			YP_142462.1	PCNA	DNA/RNA processing
			YP_142522.1	F-BOX domain	Translation and protein
			YP_142565.1	Etoposide-induced protein 24 (p53-induced protein 8)	metabolism Immune system modulation
			YP_142586.1	Serine/threonine protein kinase	Poorly characterized
			YP_142654.1	Endo/excinuclease amino terminal domain	DNA/RNA processing
			YP_142665.1	RING domain	Poorly characterized
			YP_142797.1	Thioredoxin	Translation and protein metabolism
			YP_142877.1	Rhomboid family protein	Host cell modulation
			YP_142956.1	Ankyrin containing protein	Poorly characterized
				Genes of unknown function: 72	

Classification	Species	Genome ID	Protein ID	Annotation	Functional Category
Phycodnavirus					
	Emiliania huxleyi virus 86	NC_007346.1	YP_293786.1	Putative membrane protein	Poorly characterized
			YP_293842.1	Putative membrane protein	Poorly characterized
			YP_293845.1	Putative membrane protein	Poorly characterized
			YP_293870.1	Putative membrane protein	Poorly characterized
			YP_293930.1	Putative membrane protein	Poorly characterized
			YP_294074.1	Putative membrane protein	Poorly characterized
			YP_294173.1	Putative fatty acid desaturase	Other metabolism
				Genes of unknown function: 37	
	Paramecium bursaria Chlorella			Genes of unknown function: 117	
,	virus 1	NG 002607.1	ND 077501 1	P 1 1	DATA /DATA
	Ectocarpus siliculosus virus 1	NC_002687.1	NP_077501.1	Endonuclease	DNA/RNA processing
			NP_077571.1	Transmembrane protein A	Poorly characterized
			NP_077709.1	Replication factor C3	DNA/RNA processing
x				Genes of unknown function: 22	
Nimavirus	Shrimp white spot syndrome virus			Genes of unknown function: 96	
Unclassified viri	us				
	Heliothis zea virus 1	NC_004156.1	NP_690426.1	Dihydrofolate reductase	Nucleotide metabolism
			NP_690455.1	DNA ligase III	DNA/RNA processing
			NP_690456.1	FtsJ-like methyltransferase	DNA/RNA processing
			NP_690540.1	Very late factor 1 VLF-1	Poorly characterized
			NP_690564.1	Carboxylesterase	Other metabolism
			_	Genes of unknown function: 20	
Chordopoxvirus	3				
	Monkeypox virus	NC_003310.1	NP_536611.1	T1R protein	Poorly characterized
				Genes of unknown function: 2	
	Camelpox virus	NC_003391.1	NP_570396.1	T1R protein	Poorly characterized
			NP_570516.1	Putative IMV membrane morphogenesis	Viral particle formation
				protein	
-		NG 002/62 2	ND (10022.1	Genes of unknown function: 4	X7: 1 (1.1.C.
	Cowpox virus	NC_003663.2	NP_619933.1	Putative phosphorylated IMV membrane protein	Viral particle formation
				Genes of unknown function: 1	
-	Myxoma virus	NC_001132.2	NP_051821.1	Putative phosphorylated IMV membrane	Viral particle formation
				protein	
				<u>.</u>	
			NP_051855.1	Ig domain OX-2-like protein	Immune system modulation
			_	Genes of unknown function: 3	•
	Rabbit fibroma virus	NC_001266.1	NP_051901.1	Genes of unknown function: 3 dUTPase	Nucleotide metabolism
	Rabbit fibroma virus	NC_001266.1	_	Genes of unknown function: 3	Nucleotide metabolism DNA/RNA processing
	Rabbit fibroma virus	NC_001266.1	NP_051901.1	Genes of unknown function: 3 dUTPase MutT (NUDIX) protein Putative phosphorylated IMV membrane	Nucleotide metabolism
	Rabbit fibroma virus	NC_001266.1	NP_051901.1 NP_051974.1	Genes of unknown function: 3 dUTPase MutT (NUDIX) protein	Nucleotide metabolism DNA/RNA processing Viral particle formation
	Rabbit fibroma virus	NC_001266.1	NP_051901.1 NP_051974.1 NP_051996.1	Genes of unknown function: 3 dUTPase MutT (NUDIX) protein Putative phosphorylated IMV membrane protein	DNA/RNA processing
	Rabbit fibroma virus Ectromelia virus	NC_001266.1 NC_004105.1	NP_051901.1 NP_051974.1 NP_051996.1	Genes of unknown function: 3 dUTPase MutT (NUDIX) protein Putative phosphorylated IMV membrane protein Ig domain OX-2-like protein Genes of unknown function: 0 C-type lectin-like protein	Nucleotide metabolism DNA/RNA processing Viral particle formation Immune system modulation
			NP_051901.1 NP_051974.1 NP_051996.1 NP_052027.1	Genes of unknown function: 3 dUTPase MutT (NUDIX) protein Putative phosphorylated IMV membrane protein Ig domain OX-2-like protein Genes of unknown function: 0 C-type lectin-like protein Putative phosphorylated IMV membrane	Nucleotide metabolism DNA/RNA processing Viral particle formation
			NP_051901.1 NP_051974.1 NP_051996.1 NP_052027.1	Genes of unknown function: 3 dUTPase MutT (NUDIX) protein Putative phosphorylated IMV membrane protein Ig domain OX-2-like protein Genes of unknown function: 0 C-type lectin-like protein	Nucleotide metabolism DNA/RNA processing Viral particle formation Immune system modulation Viral particle formation
			NP_051901.1 NP_051974.1 NP_051996.1 NP_052027.1 NP_671525.1 NP_671639.1	Genes of unknown function: 3 dUTPase MutT (NUDIX) protein Putative phosphorylated IMV membrane protein Ig domain OX-2-like protein Genes of unknown function: 0 C-type lectin-like protein Putative phosphorylated IMV membrane protein Leukocyte surface antigen CD47 precursor	Nucleotide metabolism DNA/RNA processing Viral particle formation Immune system modulation

Immune system modulation NP_042194.1 Semaphorin Putative type-I membrane glycoprotein NP_042194.1 NP_042194.1 Ankyrin repeal protein Poorly characterized Immune system modulation Immune system modulation Poorly characterized Poo	Classification	Species	Genome ID	Protein ID	Annotation	Functional Category
NP_042191.1 Semaphorin Poorly characterized Poorly character		Variola virus	NC_001611.1	NP_042165.1	1 1 2	Viral particle formation
NP_04218.1 Putative pre-lamenhane glycoprotein Poorly characterized Poorly characte				NP_042191.1	Leukocyte surface antigen CD47 precursor	Immune system modulation
NP_04218.1 NP_0439571 Contains a predicted son-globular regions and Q/A repeats protein Poorly characterized Poorly characteriz				NP_042194.1	Semaphorin	Immune system modulation
Seeses of unknown function:				NP_042198.1	Putative type-I membrane glycoprotein	Poorly characterized
NC_001731.1 NP_043957.1 NP_043957.1 NP_043950.1 NP_043960.1 NP_04400.1 NP_04407.1 NP_04407.1 NP_04407.1 NP_04407.1 NP_04407.1 NP_04409.1 NP_0				NP_042218.1	Ankyrin repeat protein	Poorly characterized
NP_044002.1 Contains a predicted signal peptide and an immune system modulation immunes are interested in the protein precursor (II18BP) (Tadeking-alfa) immune system modulation immunes (II18BP) (Tadeking-alfa) immune system modulation immunes are immunes as a modulation immune system modulation immunes are immunes as a modulation immune system modulation immunes are immunes as a modulation immune system modulation immune system modulation immunes are immunes as a modulation immune system modulation immune system modulation immunes are immunes as a modulation immune system modulation immune system modulation immunes are immunes as a modulation immune system modulation immune system modulation immunes are immunes as a modulation immune system modulation immunes are immunes as a modulation immune system modulation immunes are immunes as a modulation immune system modulation immunes are immunes as a modulation immune system modulation immunes are immunes associated protein immu					Genes of unknown function: 1	
NP_04400.1 Contains a predicted signal peptide and an immunglobulin domain Interleukin-18-binding protein precursor (IL-188P) Tackeking-affa) Interleukin-18-binding protein precursor (IL-188P) Tackeking-affa) Interleukin-18-binding protein precursor (IL-188P) Tackeking-affa) Immune system modulation NP_044017.2 Glutafhone peroxidase Immune system modulation NP_044078.1 NP_044078.1 NP_044078.1 NP_044078.1 NP_044078.1 NP_044078.1 NP_044078.1 NP_044078.1 NP_044078.1 NP_04409.1 NP_04409.1 NP_04409.1 Putative extracellular virion glycoprotein NP_04409.1 NP_04409.1 Putative extracellular virion glycoprotein NP_04409.1 NP_04409.1 Putative extracellular virion glycoprotein NP_044108.1 Putative extracellular virion glycoprotein NP_044108.1 Putative extracellular virion glycoprotein NP_044108.1 Putative extracellular virion glycoprotein Poorly characterized Viral particle associated Viral particle associated Viral particle associated NP_044108.1 Putative membrane receptor Poorly characterized NP_04411.1 DED domain; CASP8 and FADD-like apoptosis regulator (FLICE-like protein) Poorly characterized Poorly characterized NP_04411.1 SLAM-like protein Immune system modulation NP_04411.1 NP_04411.1 SLAM-like protein Immune system modulation NP_04411.1		Molluscum contagiosum virus	NC_001731.1		regions and Q/A repeats	-
immunoglobulin domain Interleukin-18-binding protein precursor (II-18BP) (Taldeking-affa), Immune system modulation Immune system modulati				NP_043969.1		•
Interleukin 1-8-binding protein precursor (IL-18BP) (Tadeking-alfa) Interleukin 1-8-binding protein precursor (IL-18BP) (Tadeking-alfa) Immune system modulatior Immune system modulatior Immune system modulatior Immune system modulation Immune system				NP_044002.1	immunoglobulin domain	Poorly characterized
NP_04401.12 Glutathione peroxidase Immune system modulation NP_044031.1 NP_04410.1 NP_04410				_	(IL-18BP) (Tadekinig-alfa).	Immune system modulation
NP_044031.1 MHC class I homolog DEAD-like helicases superfamily DNA/RNA processing NP_044078.1 Holikady junction resolvase DNA/RNA processing NP_044082.1 A type inclusion protein Viral particle formation NP_044093.1 NP_044091.1 Putative extracellular reveloped virion protein NP_044097.1 Putative extracellular reveloped virion protein NP_044097.1 Putative extracellular enveloped virion protein NP_044106.1 NP_044106.1 Putative correction Immune system modulation necessary of the protein NP_04410.1 DED domain; CASP8 and FADD-like apoptosis regulator (FLICE-like protein) Immune system modulation necessary of the protein Immune system modulation immune system modulation spots of the protein Immune system modulation i				_	(IL-18BP) (Tadekinig-alfa).	Immune system modulation
NP_044074.1 DEAD-like helicases superfamily NP_044078.1 NP_044078.1 Holliday junction resolvase DNA/RNA processing DNA/RNA processing NP_044092.1 A type inclusion protein NP_044093.1 NP_044093.1 Putative membrane protein NP_044094.1 Putative extracellular virion glycoprotein Viral particle associated protein NP_04409.1 Putative extracellular virion glycoprotein Viral particle associated protein NP_04409.1 Putative extracellular virion glycoprotein Viral particle associated protein NP_04409.1 Putative restracellular enveloped virion protein NP_04410.1 Putative non-globular, membrane-associated protein NP_04410.1 Putative membrane receptor NP_04410.1 DED domain; CASP8 and FADD-like apoptosis regulator (FLICE-like protein) Poorly characterized Immune system modulation NP_04411.1 DED domain; CASP8 and FADD-like apoptosis regulator (FLICE-like protein) NP_04411.1 SLAM-like protein Immune system modulation Genes of unknown function: 24 Canarypox virus NC_005309.1 NP_955026.1 C-type lectin-like protein Immune system modulation NP_95508.1 Chemokine-like receptor Immune system modulation NP_95508.1 Chemokine-like receptor Immune system modulation NP_95508.1 Chemokine-like receptor Immune system modulation Genes of unknown function: 9 Fowlpox virus NC_002188.1 NP_03898.1 Chemokine-like receptor Immune system modulation Genes of unknown function: 9 Lumpy skin disease virus NC_003027.1 NP_150435.1 NP_150452.1 NP_150452.				NP_044017.2	•	•
NP_044082.1 Holliday junction resolvase NP_044082.1 A type inclusion protein NP_044093.1 Putative membrane protein NP_044093.1 Putative extracellular virion glycoprotein NP_044094.1 Putative extracellular enveloped virion protein NP_044099.1 Putative extracellular enveloped virion protein NP_044099.1 Putative extracellular enveloped virion protein NP_044106.1 Putative non-globular, membrane-associated protein NP_044101.1 DED domain; CASP8 and FADD-like apoptosis regulator (FLICE-like protein) NP_044111.1 DED domain; CASP8 and FADD-like apoptosis regulator (FLICE-like protein) NP_044112.1 SLAM-like protein NP_044112.1 SLAM-like protein NP_044113.1 SLAM-like protein NP_044113.1 SLAM-like protein SLAM-like protein Genes of unknown function: 24 Canarypox virus NC_005309.1 NP_955062.1 C-type lectin-like protein NP_955068.1 NP_955068.1 Chemokine-like receptor 1 Immune system modulation NP_955068.1 NP_95508.1 Chemokine-like receptor 1 Immune system modulation NP_95508.1 NP_95538.1 Chemokine-like receptor 1 Immune system modulation NP_95538.1 C-type lectin-like protein Immune system modulation NP_95538.1 C-type lectin-like protein Immune system modulation NP_95538.1 C-type lectin-like protein Immune system modulation Genes of unknown function: 9 Fowlpox virus NC_002188.1 NP_03898.1 C-sa anaphylatoxin chemotactic receptor (C5a-R) (C5aR) (CD88 antigen). NP_03899.1 Chemokine-like protein Immune system modulation Genes of unknown function: 9 Lumpy skin disease virus NC_003027.1 NP_150435.1 Modulator of immune recognition 1 Immune system modulation Genes of unknown function: 9 Lumpy skin disease virus NC_003027.1 NP_150444.1 NP_150462.1 Immune recognition 1 Immune system modulation (Integrin-associated protein) (IAP) Immune system modulation Immune system modulation Immune system modulation (Integrin-associated protein) (IAP)				NP_044031.1	_	•
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NP_044094.1 Putative extracellular virion glycoprotein NP_044094.1 Putative extracellular enveloped virion protein NP_044099.1 C-C chemokine-like protein Immune system modulation NP_044106.1 Putative non-globular, membrane-associated protein NP_044108.1 Putative non-globular, membrane-associated protein NP_04410.1 DED domain; CASPR and FADD-like apoptosis regulator (FLICE-like protein) NP_044111.1 DED domain; CASPR and FADD-like apoptosis regulator (FLICE-like protein) Immune system modulation NP_044113.1 SLAM-like protein Immune system modulation SLAM-like protein Immune system modulation SLAM-like protein Immune system modulation NP_044113.1 NP_044113.1 SLAM-like protein Immune system modulation NP_044113.1 NP_04411				NP_044082.1		=
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NP_04410.1 Putative non-globular, membrane- associated protein NP_04410.1 Putative membrane receptor NP_04410.1 DED domain; CASP8 and FADD-like apoptosis regulator (FLICE-like protein) NP_044112.1 DED domain; CASP8 and FADD-like apoptosis regulator (FLICE-like protein) NP_044112.1 SLAM-like protein NP_044113.1 SLAM-like protein NP_05406.1 C-type lectin-like protein NP_05506.1 Chemokine-like receptor I Immune system modulation NP_95506.1 Chemokine-like receptor I Immune system modulation NP_955349.1 C-type lectin-like protein NP_955349.1 C-type lectin-like protein NP_045506.1 NP_05506.2 C-type lectin-like protein NP_05506.1 NP_05506.2 C-type lectin-like protein NP_03899.1 C-type lectin-like protein NP_04414.1 NP_0444.1 NP_0444.1 NP_0444.1 NP_0444.1 NP_044				_	protein	•
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NP_044110.1 DED domain; CASP8 and FADD-like apoptosis regulator (FLICE-like protein) NP_044111.1 DED domain; CASP8 and FADD-like apoptosis regulator (FLICE-like protein) NP_044112.1 SLAM-like protein Immune system modulation genes of unknown function: 24 Canarypox virus NC_005309.1 NP_955026.1 C-type lectin-like protein Immune system modulation NP_95508.1 Chemokine-like receptor 1 Immune system modulation NP_95538.1 Chemokine-like receptor 1 Immune system modulation NP_95538.1 C-type lectin-like protein Immune system modulation NP_955349.1 C-type lectin-like protein Immune system modulation Genes of unknown function: 9 Fowlpox virus NC_002188.1 NP_038984.1 C5 anaphylatoxin chemotactic receptor (C5a-R) (C5aR) (CD8R) antigen). NP_038990.1 Chemokine receptor-like Immune system modulation Genes of unknown function: 9 Lumpy skin disease virus NC_003027.1 NP_150435.1 Modulator of immune recognition 1 Immune system modulation NP_150562.1 Leukocyte surface antigen CD47 precursor (Integrin-associated protein) (IAP)				_	associated protein	•
apoptosis regulator (FLICE-like protein) NP_044111.1 DED domain; CASP8 and FADD-like apoptosis regulator (FLICE-like protein) NP_044112.1 SLAM-like protein Immune system modulation Genes of unknown function: 24 Canarypox virus NC_005309.1 NP_95502.1 C-type lectin-like protein Immune system modulation NP_95506.1 Chemokine-like receptor 1 Immune system modulation NP_95508.1 Chemokine-like receptor 1 Immune system modulation NP_955338.1 Chemokine-like receptor 1 Immune system modulation NP_955349.1 C-type lectin-like protein Immune system modulation Genes of unknown function: 9 Fowlpox virus NC_002188.1 NP_038984.1 C5a anaphylatoxin chemotactic receptor (C5a anaphylatoxin chemotactic receptor Immune system modulation (C5a R) (C5aR)					•	•
apoptosis regulator (FLICE-like protein) NP_044112.1 SLAM-like protein Immune system modulation Genes of unknown function: 24 Canarypox virus NC_005309.1 NP_955026.1 C-type lectin-like protein Immune system modulation NP_955062.1 Chemokine-like receptor 1 Immune system modulation NP_955068.1 Chemokine-like receptor 1 Immune system modulation NP_955349.1 C-type lectin-like protein Immune system modulation Genes of unknown function: 9 Fowlpox virus NC_002188.1 NP_038984.1 C5a anaphylatoxin chemotactic receptor (C5a-R) (C5aR) (CD88 antigen). NP_038990.1 Chemokine receptor-like Immune system modulation (C5a-R) (C5aR) (CD88 antigen). NP_038990.1 Chemokine receptor-like Immune system modulation Genes of unknown function: 9 Lumpy skin disease virus NC_003027.1 NP_150435.1 Modulator of immune recognition 1 homolog NP_150444.1 RING-variant domain Poortly characterized Immune system modulation (Integrin-associated protein) (IAP)				NP_044110.1		Immune system modulation
NP_044113.1 SLAM-like protein Genes of unknown function: 24 Canarypox virus NC_005309.1 NP_955026.1 C-type lectin-like protein NP_955062.1 Chemokine-like receptor 1 Immune system modulation NP_955068.1 Chemokine-like receptor 1 Immune system modulation NP_955338.1 Chemokine receptor-like 1 Immune system modulation NP_955338.1 C-type lectin-like protein NP_955349.1 C-type lectin-like protein Genes of unknown function: 9 Fowlpox virus NC_002188.1 NP_038984.1 C5a anaphylatoxin chemotactic receptor (C5a-R) (C5aR) (CD88 antigen). NP_038990.1 Chemokine receptor-like Immune system modulation (C5a-R) (C5aR) (CD88 antigen). NP_039174.1 C-type lectin-like protein Genes of unknown function: 9 Lumpy skin disease virus NC_003027.1 NP_150435.1 Modulator of immune recognition 1 homolog NP_150444.1 RING-variant domain NP_150562.1 Leukocyte surface antigen CD47 precursor (Integrin-associated protein) (IAP)				NP_044111.1		Immune system modulation
Genes of unknown function: 24 Canarypox virus NC_005309.1 NP_955026.1 C-type lectin-like protein Immune system modulation NP_955062.1 Chemokine-like receptor 1 Immune system modulation NP_955068.1 Chemokine-like receptor 1 Immune system modulation NP_955338.1 Chemokine receptor-like 1 Immune system modulation NP_955349.1 C-type lectin-like protein Immune system modulation Genes of unknown function: 9 Fowlpox virus NC_002188.1 NP_038984.1 C5a anaphylatoxin chemotactic receptor (C5a-R) (C5aR) (CD88 antigen). NP_038990.1 Chemokine receptor-like Immune system modulation NP_039174.1 C-type lectin-like protein Immune system modulation Genes of unknown function: 9 Lumpy skin disease virus NC_003027.1 NP_150435.1 Modulator of immune recognition 1 homolog NP_150444.1 RING-variant domain Poorly characterized Immune system modulation (Integrin-associated protein) (IAP)				NP_044112.1	SLAM-like protein	Immune system modulation
NC_005309.1 NP_955026.1 C-type lectin-like protein Immune system modulation NP_955062.1 Chemokine-like receptor 1 Immune system modulation NP_955068.1 Chemokine-like receptor 1 Immune system modulation NP_955338.1 Chemokine-like receptor-like 1 Immune system modulation NP_955349.1 C-type lectin-like protein Immune system modulation Genes of unknown function: 9				NP_044113.1	SLAM-like protein	Immune system modulation
NP_955062.1 Chemokine-like receptor 1 Immune system modulation NP_955068.1 Chemokine-like receptor 1 Immune system modulation NP_955338.1 Chemokine receptor-like 1 Immune system modulation NP_955349.1 C-type lectin-like protein Immune system modulation Genes of unknown function: 9 Fowlpox virus					Genes of unknown function: 24	
NP_955068.1 Chemokine-like receptor 1 Immune system modulation NP_955338.1 Chemokine receptor-like 1 Immune system modulation NP_955349.1 C-type lectin-like protein Immune system modulation Genes of unknown function: 9 NC_002188.1 NP_038984.1 C5a anaphylatoxin chemotactic receptor (C5a-R) (C5aR) (CD88 antigen).		Canarypox virus	NC_005309.1	NP_955026.1	C-type lectin-like protein	Immune system modulation
NP_955338.1 Chemokine receptor-like 1 Immune system modulation NP_955349.1 C-type lectin-like protein Genes of unknown function: 9 Fowlpox virus NC_002188.1 NP_038984.1 C5a anaphylatoxin chemotactic receptor (C5a-R) (C5aR) (CD88 antigen). NP_038990.1 Chemokine receptor-like Immune system modulation NP_039174.1 C-type lectin-like protein Genes of unknown function: 9 Lumpy skin disease virus NC_003027.1 NP_150435.1 Modulator of immune recognition 1 Immune system modulation homolog NP_150444.1 RING-variant domain Poorly characterized Immune system modulation (Integrin-associated protein) (IAP)				NP_955062.1	Chemokine-like receptor 1	Immune system modulation
NP_955349.1 C-type lectin-like protein Genes of unknown function: 9 Fowlpox virus NC_002188.1 NP_038984.1 C5a anaphylatoxin chemotactic receptor (C5a-R) (C5aR) (CD88 antigen). NP_038990.1 Chemokine receptor-like Immune system modulation (NP_039174.1 C-type lectin-like protein Genes of unknown function: 9 Lumpy skin disease virus NC_003027.1 NP_150435.1 Modulator of immune recognition 1 Immune system modulation (NP_150444.1 RING-variant domain Poorly characterized NP_150562.1 Leukocyte surface antigen CD47 precursor (Integrin-associated protein) (IAP)				NP_955068.1	Chemokine-like receptor 1	Immune system modulation
Genes of unknown function: 9 Fowlpox virus				NP_955338.1	Chemokine receptor-like 1	Immune system modulation
NC_002188.1 NP_038984.1 C5a anaphylatoxin chemotactic receptor (C5a-R) (CD88 antigen). Immune system modulation (C5a-R) (C5aR) (CD88 antigen).				NP_955349.1	C-type lectin-like protein	Immune system modulation
(C5a-R) (C5aR) (CD88 antigen). NP_038990.1 Chemokine receptor-like Immune system modulation NP_039174.1 C-type lectin-like protein Immune system modulation Genes of unknown function: 9 Lumpy skin disease virus NC_003027.1 NP_150435.1 Modulator of immune recognition 1 Immune system modulation homolog NP_150444.1 RING-variant domain Poorly characterized NP_150562.1 Leukocyte surface antigen CD47 precursor (Integrin-associated protein) (IAP)					Genes of unknown function: 9	
NP_039174.1 C-type lectin-like protein Genes of unknown function: 9 Lumpy skin disease virus NC_003027.1 NP_150435.1 Modulator of immune recognition 1 Immune system modulation homolog NP_150444.1 RING-variant domain Poorly characterized NP_150562.1 Leukocyte surface antigen CD47 precursor (Integrin-associated protein) (IAP) Immune system modulation Poorly characterized Immune system modulation (Integrin-associated protein) (IAP)		Fowlpox virus	NC_002188.1	NP_038984.1		Immune system modulation
NP_039174.1 C-type lectin-like protein Genes of unknown function: 9 Lumpy skin disease virus NC_003027.1 NP_150435.1 Modulator of immune recognition 1 Immune system modulation homolog NP_150444.1 RING-variant domain Poorly characterized NP_150562.1 Leukocyte surface antigen CD47 precursor (Integrin-associated protein) (IAP) Immune system modulation Poorly characterized Immune system modulation (Integrin-associated protein) (IAP)				NP 038990.1	Chemokine receptor-like	Immune system modulation
Genes of unknown function: 9 **Lumpy skin disease virus** NC_003027.1 NP_150435.1 Modulator of immune recognition 1 Immune system modulation homolog NP_150444.1 RING-variant domain Poorly characterized NP_150562.1 Leukocyte surface antigen CD47 precursor (Integrin-associated protein) (IAP) Comparison of unknown function: 9 Immune system modulation Immune system Immune system modulation Immune system Immune system				_	*	•
Lumpy skin disease virus NC_003027.1 NP_150435.1 Modulator of immune recognition 1 homolog NP_150444.1 NP_150562.1 Leukocyte surface antigen CD47 precursor (Integrin-associated protein) (IAP) Immune system modulation Poorly characterized Immune system modulation				007174.1		
homolog NP_150444.1 RING-variant domain Poorly characterized NP_150562.1 Leukocyte surface antigen CD47 precursor (Integrin-associated protein) (IAP)		Lumny skin disease virus	NC 003027 1	NP 150435 1		Immune system modulation
NP_150562.1 Leukocyte surface antigen CD47 precursor Immune system modulation (Integrin-associated protein) (IAP)		Lumpy skin disease virus	110_003027.1	_	homolog	•
				_	Leukocyte surface antigen CD47 precursor	Immune system modulation
Genes of unknown function: 1						

Classification	Species	Genome ID	Protein ID	Annotation	Functional Category
	Vaccinia virus	NC_006998.1	YP_233019.1	Putative phosphorylated IMV membrane	Viral particle formation
			YP_233046.1	protein Semaphorin-like protein	Immune system modulation
			YP_233061.1	Secreted TNF-receptor-like protein	Immune system modulation
			11_233001.1	Genes of unknown function: 0	minune system modulation
Entomopoxvirus	S			Genes of unknown function.	
Linomopoxviius	Melanoplus sanguinipes entomopoxvirus	NC_001993.1		Genes of unknown function: 15	
	Amsacta moorei entomopoxvirus 'L'	NC_002520.1	NP_064975.1	Protein phosphatase 1, regulatory subunit 15A	Poorly characterized
			NP_065005.1	Similar to wingless protein receptor Cfz2	Poorly characterized
				Genes of unknown function: 14	
Unclassified Pox	xvirus				
	Mule deer poxvirus	NC_006966.1	YP_227493.1	Putative phosphorylated IMV membrane protein Genes of unknown function: 1	Viral particle formation
Alphaherpesviri	inae				
	Cercopithecine herpesvirus 16	NC_007653.1	YP_443846.1	Trans-acting transcriptional protein ICP0	DNA/RNA processing
			YP_443847.1	Virion membrane glycoprotein L	Viral particle associated
			YP_443859.1	Probable serine/threonine-protein kinase	Viral particle associated
			YP_443860.1	Minor tegument protein	Viral particle associated
			YP_443870.1	Nonglycosylated membrane-associated protein	Poorly characterized
			YP_443883.1	Very large tegument protein	Viral particle associated
			YP_443896.1	Capsid/tegument-associated phosphoprotein	Viral particle associated
			YP_443899.1	Capsid/tegument-associated phosphoprotein	Viral particle associated
			YP_443902.1	Immediate-early protein ICP27 (transcriptional activator)	DNA/RNA processing
			YP_443904.1	Type II membrane protein; involved in virus pathogenicity	Poorly characterized
			YP_443905.1	Immediate-early protein ICP0	DNA/RNA processing
			YP_443907.1	Immediate-early protein ICP22	DNA/RNA processing
			YP_443908.1	Tegument protein	Viral particle associated
			YP_443910.1	Virion membrane glycoprotein G; entry into polarized cells	Entry and exit
			YP_443911.1	Glycoprotein J blocking apoptosis	Immune system modulation
			YP_443915.1	Nucleolar phosphoprotein	Poorly characterized
			YP_443917.1	Tegument protein	Viral particle associated
			YP_443918.1	RNA-binding tegument protein interacting with PKR Genes of unknown function: 0	Immune system modulation
	Equid herpesvirus 1	NC_001491.2	YP_053054.1	dUTPase	Nucleotide metabolism
	Equia nerpesvirus 1	NC_001491.2	YP_053062.1	Virion membrane protein	Viral particle associated
			YP_053083.1	Virion protein	Viral particle associated Viral particle associated
			YP_053083.1	Virion protein kinase (serine/threonine	Viral particle associated Viral particle associated
			YP 053106.1	protein kinase) Envelop glycoprotein L	Viral particle associated Viral particle associated
			_	Glycoprotein	Poorly characterized
			YP_053112.1 YP_053115.1		•
			112003113.1	Envelope glycoprotein	Viral particle associated
			VD 052116 1	Enviolana alviaannotai:-	Vival martials1
			YP_053116.1 YP_053117.1	Envelope glycoprotein Envelope glycoprotein	Viral particle associated Viral particle associated

Classification	Species	Genome ID	Protein ID	Annotation	Functional Category
	Cercopithecine herpesvirus 1	NC_004812.1	NP_851859.1	Trans-acting transcriptional protein ICP0	DNA/RNA processing
			NP_851860.1	Virion glycoprotein L	Viral particle associated
	•		NP_851872.1	Virion protein kinase	Viral particle associated
			NP_851873.1	Minor tegument protein	Viral particle associated
			NP_851883.1	Virion associated membrane prptein	Viral particle associated
			NP_851886.1	Scaffolding protein	Viral particle formation
			NP_851896.1	Very large tegument protein	Viral particle associated
			NP_851898.1	Capsid protein VP19C	Viral particle associated
			NP_851902.1	DNA polymerase subunit	DNA/RNA processing
			NP_851903.1	Membrane-associated protein	Poorly characterized
			NP_851909.1	Major tegument protein VP22	Viral particle associated
			NP_851911.1	dUTPase	Nucleotide metabolism
			NP_851912.1	Capsid/tegument-associated phosphoprotein	Viral particle associated
			NP_851915.1	Immediate-early protein ICP27 (transcriptional activator)	DNA/RNA processing
			NP_851917.1	Type II membrane protein	Poorly characterized
			NP_851918.1	Trans-acting transcriptional protein ICP0	DNA/RNA processing
			NP_851920.1	Immediate-early protein ICP22	DNA/RNA processing
			NP_851921.1	Tegument protein	Viral particle associated
			NP_851923.1	Virion glycoprotein G	Viral particle associated
			NP_851926.1	Virion glycoprotein I	Viral particle associated
			NP_851928.1	Nucleolar phosphoprotein	Poorly characterized
			NP_851930.1	Tegument protein	Viral particle associated
			NP_851931.1	RNA-binding tegument protein interacting with PKR Genes of unknown function: 0	Immune system modulation
	Human herpesvirus 2	NC_001798.1	NP 044469.1	Trans-acting transcriptional protein ICP0	DNA/RNA processing
	Transaction for the second sec	110_001770.1	NP_044483.1	Minor tegument protein	Viral particle associated
			NP_044493.1	Nonglycosylated membrane-associated protein	Viral particle associated
			NP_044495.1	Capsid maturation protease	Viral particle formation
			NP_044496.1	Capsid maturation protease	Viral particle formation
			NP_044515.1	Tegument/envelope protein	Viral particle associated
			NP_044522.1	Capsid/tegument-associated phosphoprotein	Viral particle associated
			NP_044525.1	Immediate-early protein ICP27 (transcriptional activator)	DNA/RNA processing
			NP_044526.1	Nuclear matrix-associated protein	Viral particle formation
			NP_044528.1	Trans-acting transcriptional protein ICP0	DNA/RNA processing
			NP_044534.1	Virion glycoprotein G	Viral particle associated
			NP_044537.1	Virion glycoprotein I	Viral particle associated
			NP_044538.1	Virion glycoprotein E	Viral particle associated
			NP_044542.1	Virion protein (RNA-binding)	Viral particle associated
				Genes of unknown function: 7	
	Human herpesvirus 1	NC_001806.1	NP_044600.1	Neurovirulence factor (ICP34.5)	DNA/RNA processing
			NP_044601.1	Trans-acting transcriptional protein ICP0	DNA/RNA processing
			NP_044602.1	Virion glycoprotein L	Viral particle associated
			NP_044603.1	Uracil-DNA glycosylase	DNA/RNA processing
			NP_044604.1	Nuclear phosphoprotein UL3	Poorly characterized
			NP_044627.1	Capsid maturation protease	Viral particle formation
			NP_044628.1	Capsid maturation protease	Viral particle formation
			NP_044636.1	Virion associated phosphoprotein	Viral particle associated
			NP_044647.1	Tegument/envelope protein	Viral particle associated
			NP_044651.1	Tegument protein	Viral particle associated
			NP_044657.1	Immediate early protein	Poorly characterized
			NP_044659.1	Type II membrane protein UL56	Poorly characterized

Classification	Species	Genome ID	Protein ID	Annotation	Functional Category
	Human herpesvirus1		NP_044660.1	Trans-acting transcriptional protein ICP0	DNA/RNA processing
			NP_044661.1	Neurovirulence factor (ICP34.5)	DNA/RNA processing
			NP_044663.1	Immediate early protein ICP22	DNA/RNA processing
	•		NP_044666.1	Virion glycoprotein G	Viral particle associated
			NP_044670.1	Virion glycoprotein E	Viral particle associated
			NP_044671.1	Nucleolar phosphoprotein	Poorly characterized
			NP_044673.1	Virion protein	Viral particle associated
			NP_044674.1	Virion protein (RNA-binding)	Viral particle associated
				Genes of unknown function: 4	
	Psittacid herpesvirus 1	NC_005264.1	NP_944388.1	Membrane protein	Poorly characterized
			NP_944398.1	Capsid maturation protease	Viral particle formation
			NP_944449.1	glycoprotein I	Poorly characterized
				Genes of unknown function: 5	
	Gallid herpesvirus 2	NC_002229.2	NP_057741.1	Arg-rich protein	Poorly characterized
			NP_057748.1	PCNB like protein	Poorly characterized
			NP_057828.1	Marek's disease gammaherpesvirus	Poorly characterized
			NP_057749.1	tumorigenicity associated mRNA Marek's disease gammaherpesvirus tumorigenicity associated mRNA	Poorly characterized
			NP_057829.1	PCNB like protein	Poorly characterized
			NP_057836.1	Arg-rich protein	Poorly characterized
				Genes of unknown function: 13	
	Gallid herpesvirus 3	NC_002577.1		Genes of unknown function: 19	
	Cercopithecine herpesvirus 2	NC_006560.1	YP_164442.1	Trans-acting transcriptional protein ICP0	DNA/RNA processing
			YP_164443.1	Virion glycoprotein L	Viral particle associated
			YP_164444.1	Uracil-DNA glycosylase	DNA/RNA processing
			YP_164455.1	Virion protein kinase	Viral particle associated
			YP_164456.1	Minor tegument protein	Viral particle associated
			YP_164466.1	Nonglycosylated virion membrane- associated protein	Viral particle associated
			YP_164469.1	Scaffolding protein	Viral particle formation
			YP_164479.1	Very large tegument protein	Viral particle associated
			YP_164480.1	Minor tegument protein	Viral particle associated
			YP_164492.1	Major tegument protein VP22	Viral particle associated
			YP_164494.1	dUTPase	Nucleotide metabolism
			YP_164495.1	Capsid/tegument-associated phosphoprotein	Viral particle associated
			YP_164498.1 YP 164500.1	Immediate-early protein ICP27 (transcriptional activator) Type II membrane protein	DNA/RNA processing Poorly characterized
			YP_164501.1	Trans-acting transcriptional protein ICP0	DNA/RNA processing
			YP_164503.1	Immediate-early protein ICP22	DNA/RNA processing
			YP_164504.1	Tegument protein	Viral particle associated
			YP_164506.1	Virion glycoprotein G, involved in entry	Entry and exit
			YP_164509.1	into polarized cells Virion glycoprotein I	Viral particle associated
			YP_164510.1	Virion glycoprotein E	Viral particle associated
			YP_164513.1	Tegument protein	Viral particle associated
			YP_164514.1	RNA-binding tegument protein interacting with PKR Genes of unknown function: 0	Immune system modulation
	Meleagrid herpesvirus 1	NC_002641.1		Genes of unknown function: 8	
	0 1	_			

Classification	Species	Genome ID	Protein ID	Annotation	Functional Category
Betaherpesvirus	Pongine herpesvirus 4	NC 003521.1	NP 612644.1	Virion glycoprotein RL10	Viral particle associated
1 ongine nerpesvirus 4	NC_003321.1	NP 612645.1	IgG Fc-binding glycoprotein RL11	Immune system modulation	
			NP 612646.1	Glycoprotein RL12	Poorly characterized
			NP 612647.1	Glycoprotein TRL13	Poorly characterized
			NP_612651.1	Glycoprotein UL6	Poorly characterized
			NP_612652.1	Glycoprotein UL7	Poorly characterized
			NP_612653.1	Glycoprotein UL8	Poorly characterized
			NP_612654.1	Glycoprotein UL9	Poorly characterized
			NP_612655.1	Glycoprotein UL10	Poorly characterized
			NP_612656.1	Glycoprotein UL11	Poorly characterized
			NP_612662.1	MHC class I-like protein UL18	Immune system modulati
			NP_612664.1	Glycoprotein UL20	Poorly characterized
			NP 612666.1	Glycoprotein UL22A	Poorly characterized
			NP 612676.1	pp150 tegument protein UL3	Viral particle associated
			NP_612681.1	Viral mitochondrial inhibitor of apoptosis (vMIA)	Immune system modulati
			NP_612694.1	Membrane-associated protein UL50 involved in egress of capsids from nucleus	Entry and exit
			NP 612695.1	DNA packaging protein UL51	Viral particle formation
			NP 612706.1	Envelope glycoprotein UL73	Viral particle associated
			NP_612707.1	Glycoprotein UL74	Poorly characterized
			NP_612721.1	Virion protein UL88	Viral particle associated
			NP_612727.1	Tegument protein UL95	Viral particle associated
			NP_612731.1	Myristylated tegument protein UL99	Viral particle associated
			NP_612737.1	UL112 involved in recruiting DNA replication proteins to nuclear replication compartments	DNA/RNA processing
			NP_612743.1	Glycoprotein UL120	Poorly characterized
			NP_612744.1	Membrane protein UL121	Poorly characterized
			NP_612745.1	Immediate-early transcriptional regulator UL122	DNA/RNA processing
			NP_612746.1	Immediate-early transcriptional regulator UL123	DNA/RNA processing
			NP_612747.1	Glycoprotein UL124	Poorly characterized
			NP_612754.1	Putative CXC chemokine UL147	Immune system modulati
			NP_612755.1	Putative CXC chemokine UL146A	Immune system modulati
			NP_612756.1	Putative CXC chemokine UL146	Immune system modulati
			NP_612758.1	Glycoprotein UL144 similar to TNFR	Immune system modulati
			NP_612759.1	MHC class I	Immune system modulati
			NP_612762.1	Glycoprotein UL139	Poorly characterized
			NP_612775.1	Transcriptional transactivator IRS1	DNA/RNA processing
			NP_612780.1	Glycoprotein US7	Poorly characterized
			NP_612782.1	Glycoprotein US9	Poorly characterized
			NP_612783.1	Glycoprotein US10	Poorly characterized
			NP_612784.1	Glycoprotein US11 targetting MHC class I molecules for proteasome-dependent degradation; US6 family	Immune system modulati
			NP_612799.1	Chemokine receptor homologue	Immune system modulati
			NP_612807.1	Transcriptional transactivator TRS1 Genes of unknown function: 26	DNA/RNA processing
-	Human herpesvirus 6B	NC_000898.1	NP_597817.1	G-protein coupled receptor homolog	Immune system modulati
			NP_050262.1	Chemokine	Immune system modulati
			NP_050264.1	OX-2 homolog	Immune system modulati
			•	Genes of unknown function: 3	•

Classification	Species	Genome ID	Protein ID	Annotation	Functional Category
	Murid herpesvirus 1	NC_004065.1	YP_214012.1	Glycoprotein family m02	Poorly characterized
			YP_214013.1	Glycoprotein family m02	Poorly characterized
	Human herpesvirus 5 strain AD169		YP_214016.1	Glycoprotein family m02	Poorly characterized
			YP_214017.1	Glycoprotein family m02	Poorly characterized
			YP_214018.1	Glycoprotein family m02	Poorly characterized
			YP_214019.1	Glycoprotein family m02	Poorly characterized
			YP_214020.1	Glycoprotein family m02	Poorly characterized
			YP_214021.1	Glycoprotein family m02	Poorly characterized
			YP_214022.1	Glycoprotein family m02	Poorly characterized
			YP_214023.1	Glycoprotein family m02	Poorly characterized
			YP_214024.1	Glycoprotein family m02	Poorly characterized
			YP_214111.1	Serine-alanine-rich glycoprotein	Poorly characterized
				Genes of unknown function: 40	
	•	NC_001347.2	NP_899637.1	IgG Fc-binding glycoprotein RL11	Immune system modulation
	AD109		NP_899638.1	IgG Fc-binding glycoprotein RL12	Immune system modulation
			NP_039943.1	Membrane protein precursor	Poorly characterized
			NP_039945.1	Membrane protein precursor	Poorly characterized
			NP_039952.1	MHC class I antigen	Immune system modulatio
			NP_783776.1	Secreted glycoprotein	Poorly characterized
			NP_039971.1	Viral mitochondrial inhibitor of apoptosis (vMIA)	Immune system modulation
			NP_039984.1	Membrane-associated protein involved in egress of capsids from nucleus	Entry and exit
			NP_040007.1	Envelope glycoprotein UL73	Viral particle associated
			NP_040008.1	Glycoprotein UL7	Poorly characterized
			NP_040050.1	Early phosphoprotein	Poorly characterized
			NP_040058.1	Membrane protein UL121	Poorly characterized
			NP_040060.1	Major immediate-early protein	Poorly characterized
			NP_040061.1	Glycoprotein UL124	Poorly characterized
			NP_040067.1	Putative secreted protein	Poorly characterized
			NP_899641.1	Glycoprotein RL1	Poorly characterized
			NP_899642.1	IgG Fc-binding glycoprotein RL11	Immune system modulatio
			NP_040085.1	Transcriptional transactivator IRS1	DNA/RNA processing
			NP 040088.1	Immediate-early glycoprotein US3	Poorly characterized
			NP 040091.1	Glycoprotein US6	Poorly characterized
			NP_040092.1	Glycoprotein US7	Poorly characterized
			NP 040094.1	Glycoprotein US9	Poorly characterized
			NP_040095.1	Glycoprotein US10	Poorly characterized
			NP_040096.1	Glycoprotein US11	Poorly characterized
			_	Genes of unknown function: 29	,
	Human herpesvirus 6	NC_001664.1		Genes of unknown function: 11	
	Human herpesvirus 7	NC_001716.2	YP_073787.1	Envelope lycoprotein U47	Viral particle associated
		_	YP_073812.1	Envelope lycoprotein M	Viral particle associated
			_	Genes of unknown function: 6	-
	Cercopithecine herpesvirus 8	NC_006150.1	YP_068195.1	Envelope glycoprotein	Viral particle associated
				Genes of unknown function: 79	•

Classification	Species	Genome ID	Protein ID	Annotation	Functional Category
	Murid herpesvirus 2	NC_002512.2	NP_064173.1	Putative membrane protein	Poorly characterized
			NP_064217.1	Glycoprotein L precursor	Poorly characterized
			NP_064218.1	Mucin (Fragment)	Poorly characterized
			NP_064229.1	Large tegument protein	Viral particle associated
			NP_064238.1	Nonstructural protein NS	Poorly characterized
			NP_064239.1	Immediate-early protein 2 (IE2)	Poorly characterized
			NP_064240.1	CC chemokine homolog	Immune system modulation
			NP_064247.1	Tegument protein	Viral particle associated
			NP 064248.1	Tegument protein	Viral particle associated
			NP 064249.1	Tegument protein	Viral particle associated
			NP 064251.1	MHC class Ib antigen	Immune system modulatio
			_	Genes of unknown function: 76	,
	Human herpesvirus 5 strain Merlin	NC_006273.1	YP_081459.1	IgG Fc-binding glycoprotein RL11	Immune system modulation
	Mertin		YP 081460.1	IgG Fc-binding glycoprotein RL12	Immune system modulation
			YP 081461.1	Glycoprotein RL11 family member	Poorly characterized
			YP 081462.1	Glycoprotein RL11 family member	Poorly characterized
			YP 081466.1	Glycoprotein RL11 family member	Poorly characterized
			YP 081467.1	Glycoprotein RL11 family member	Poorly characterized
			YP 081468.1	Glycoprotein RL11 family member	Poorly characterized
			YP 081469.1	Glycoprotein RL11 family member	Poorly characterized
			YP 081470.1	Glycoprotein RL11 family member	Poorly characterized
			YP 081470.1	Glycoprotein RL11 family member	Poorly characterized
			_		•
			YP_081477.1	MHC class I-like protein UL18	Immune system modulation
			YP_081479.1	Glycoprotein RL11 family member	Poorly characterized
			YP_081481.1	Glycoprotein	Poorly characterized
			YP_081496.1	Viral mitochondrial inhibitor of apoptosis (vMIA)	Immune system modulatio
			YP_081509.1	Membrane-associated protein involved in egress of capsids from nucleus	Entry and exit
			YP_081521.1	Envelope glycoprotein UL73	Viral particle associated
			YP_081522.1	Glycoprotein O	Poorly characterized
			YP_081529.1	Protease and minor capsid scaffold protein UL80	Viral particle formation
			YP 081542.1	Tegument protein UL95	Viral particle associated
			YP_081553.1	UL112 involved in recruiting DNA replication proteins to nuclear replication	DNA/RNA processing
			YP_081559.1	compartments Glycoprotein	Poorly characterized
			YP 081560.1	Membrane protein	Poorly characterized
			YP_081562.1	Immediate-early transcriptional regulator UL123	DNA/RNA processing
			YP 081563.1	Glycoprotein	Poorly characterized
			YP 081565.1	Putative secreted protein	Poorly characterized
			YP_081570.1	Putative CXC chemokine UL147	Immune system modulatio
			YP 081571.1	Alpha-chemokine; UL146 family member	Immune system modulatio
			YP_081573.1	Glycoprotein similar to TNFR	Immune system modulation
			YP_081574.1	Similar to MHC class I; UL18 family	Immune system modulation
			YP_081577.1	member Glycoprotein	Poorly characterized
			YP_081587.1	Transcriptional transactivator IRS1	DNA/RNA processing
			YP 081590.1	Immediate-early glycoprotein US3	Poorly characterized
			YP 081591.1	Glycoprotein; US6 family member	Poorly characterized
			YP 081592.1	Glycoprotein; US6 family member	Poorly characterized
			YP_081594.1	Glycoprotein; role in cell-to-cell spread in epithelial cells; US6 family member	Poorly characterized
			YP_081595.1	Glycoprotein; US6 family member Genes of unknown function: 20	Poorly characterized

Classification	Species	Genome ID	Protein ID	Annotation	Functional Category
	Tupaiid herpesvirus 1	NC_002794.1	NP_116415.1	Genes of unknown function: 59	
Gammaherpesv	irus				
	Tupaiid herpesvirus 1	NC_007605.1	YP_401631.1	Latent membrane protein 2 (Terminal protein)	Immune system modulation
			YP_401632.1	Latent membrane protein 2 (Terminal protein)	Immune system modulation
			YP_401634.1	Viral interleukin-10 homolog precursor (vIL-10)	Immune system modulation
			YP_401644.1	Epstein-Barr nuclear antigen 2 (EBV nuclear antigen 2) (EBNA-2)	Poorly characterized
			YP_401646.1	Early antigen protein R (EA-R) (Nuclear antigen)Bcl-2 homolog (BHRF1)	Immune system modulation
			YP_401667.1	BLLF1 envelope glycoprotein	Entry and exit
			YP_401669.1	Epstein-Barr nuclear antigen 3 (EBNA-3A), function in nucleotide salvage pathway	Nucleotide metabolism
			YP_401670.1	Epstein-Barr nuclear antigen (EBNA-3B)	DNA/RNA processing
			YP_401671.1	Epstein-Barr nuclear antigen (EBNA-3C)	DNA/RNA processing
			YP_401673.1	Trans-activator protein BZLF1 (EB; Zebra)	DNA/RNA processing
			YP_401677.1	Epstein-Barr nuclear antigen 1 (EBNA-1)	DNA/RNA processing
			YP_401706.1	Membrane glycoprotein	Poorly characterized
			YP_401709.1	dUTPase	Nucleotide metabolism
			YP_401722.1	Latent membrane protein 1 (LMP-1)	Immune system modulation
			_	(Protein p63) Genes of unknown function: 23	·
	Equid herpesvirus 2	NC_001650.1	NP_042597.1	C-C chemokine receptor type 3	Immune system modulation
			NP_042604.1	Glycoprotein B	Poorly characterized
			NP_042618.1	Glycoprotein H	Poorly characterized
			NP_042628.1	Viral DNA cleavage/packaging protein	Viral particle formation
			NP_042633.1	Probable serine/threonine-protein kinase	Poorly characterized
			NP_042643.1	Uracil-DNA glycosylase	DNA/RNA processing
			NP_042644.1	Glycoprotein L precursor	Poorly characterized
			NP_042645.1	Glycoprotein L	Poorly characterized
			NP_042654.1	Post-transcriptional transactivator	DNA/RNA processing
			NP_042661.1	Tegument protein	Viral particle associated
			NP_042662.1	Capsid protein	Viral particle associated
			NP_042670.1	G protein-coupled receptor	Immune system modulatio
			NP_042674.1	Probable C-C chemokine receptor type 3	Immune system modulation
			NP_042675.1	Probable C-C chemokine receptor type 3 Genes of unknown function: 14	Immune system modulation
	Cercopithecine herpesvirus 15	NC_006146.1	YP_067938.1	Terminal protein LMP2A	Immune system modulation
			YP_067939.1	Terminal protein LMP2A	Immune system modulation
			YP_067944.1	Bcl-2 homolog (BHRF1)	Immune system modulation
			YP_067963.1	gp350 envelope glycoprotein	Entry and exit
			YP_067965.1	Epstein-Barr nuclear antigen 3 (EBNA-3A), function in nucleotide salvage pathway	Nucleotide metabolism
			YP_067966.1	Nuclear antigen 3B (EBNA-3B)	DNA/RNA processing
			YP_067967.1	Nuclear antigen 3C (EBNA-3C)	DNA/RNA processing
			YP_067969.1	Trans-activator protein BZLF1	DNA/RNA processing
			YP_067973.1	Nuclear antigen EBNA-1	DNA/RNA processing
			YP_067991.1	Putative membrane antigen gp85	Poorly characterized
			YP_068002.1	Probable membrane glycoprotei	Poorly characterized
			YP_068017.1	Latent membrane protein 1 (LMP-1)	Immune system modulation

Classification	Species	Genome ID	Protein ID	Annotation	Functional Category
Inclassified he		NG 005001 :	VD 0245024	DDIG C	D 1 1
	Ostreid herpesvirus 1	NC_005881.1	YP_024582.1	RING finger protein	Poorly characterized
			YP_024600.1	Hypothetical protein (Mid-1-related chloride channel 1)	Poorly characterized
			YP_024619.1	Membrane protein	Poorly characterized
				Genes of unknown function: 4	
Caudovirales					
	Enterobacteria phage RB43	NC_007023.1	YP_239022.1	gp59, loader of gene 41 DNA helicase	DNA/RNA processing
			YP_239162.1	MutT (NUDIX) domain	DNA/RNA processing
			YP_239174.1	dNMP kinase	Nucleotide metabolism
			YP_239192.1	MobE mobile endonuclease	Mobile elements
			YP_239258.1	gp38 distal long tail fiber assembly catalyst	Viral particle formation
			YP_239259.1	t holin	Entry and exit
				Genes of unknown function: 9	
	Enterobacteria phage T4	NC_000866.4	NP_049856.1	gp59, loader of gene 41 DNA helicase	DNA/RNA processing
			NP_049861.1	gp35 hinge connector of long tail fiber,	Viral particle associated
			NP 049865.1	proximal connector t holin lysis mediator	Entry and exit
			_	DenB DNA endonuclease	-
			NP_049887.1	Genes of unknown function: 4	DNA/RNA processing
	Pseudomonas phage phiEL	NC 007623.1	YP_418058.1	HNH endonuclease	Mobile elements
	rseuaomonas pnage pniEL	NC_00/623.1	_	Putative transposase	Mobile elements
			YP_418070.1		Other metabolism
			YP_418185.1	Putative acetyltransferase Genes of unknown function: 15	Other metabonsm
	Danidamanaa nhaaa nhiV7	NC 004620.1	NID 902962 1	HNH endonuclease	Mahila alamanta
	Pseudomonas phage phiKZ	NC_004629.1	NP_803862.1		Mobile elements
	M. I. d. i. I. D. I.	NG 004607.1	ND 010246.1	Genes of unknown function: 26	DNIA/DNIA
	Mycobacterium phage Bxz1	NC_004687.1	NP_818246.1	Putative DNA primase	DNA/RNA processing
	E . I I DDC0	NG 004020 1	ND 061740.1	Genes of unknown function: 26	D314 /D314
	Enterobacteria phage RB69	NC_004928.1	NP_861748.1	gp62 clamp loader subunit, DNA polymerase accessory protein	DNA/RNA processing
			NP_861804.1	Valyl-tRNA synthetase modifier	Translation and protein
					metabolism
			NP_861937.1	gp59, loader of gp41 DNA helicase	DNA/RNA processing
			NP_861942.1	gp35 hinge connector of long tail fiber, proximal connector	Viral particle associated
			NP_861946.1	t holin lysis mediator	Entry and exit
			_	Genes of unknown function: 6	•
	Enterobacteria phage RB49	NC 005066.1		Genes of unknown function: 12	
	Vibrio phage KVP40	NC_005083.1	NP_899252.1	gp59, loader of gp41 DNA helicase	DNA/RNA processing
		_	NP_899254.1	Dihydrofolate reductase	Nucleotide metabolism
			-	Genes of unknown function: 16	
	Aeromonas phage 44RR2.8t	NC_005135.1	NP_932385.1	DNA replication primase	DNA/RNA processing
			NP_932560.1	Endonuclease II	DNA/RNA processing
			NP_932562.1	Dihydrofolate reductase	Nucleotide metabolism
			_	Genes of unknown function: 4	
	Aeromonas phage Aehl	NC_005260.1	NP_943926.1	MobE homing endonuclease	Mobile elements
		_	 NP_944074.1	dNMP kinase	Nucleotide metabolism
			NP_944082.1	gp53 baseplate wedge subunit	Viral particle associated
			_ `	Genes of unknown function: 10	

lassification	Species	Genome ID	Protein ID	Annotation	Functional Category
	Bacteriophage S-PM2	NC_006820.1	YP_195035.1	Site-specific DNA methylase Dam	DNA/RNA processing
			YP_195130.1	Terminase subunit gp16	Viral particle formation
			YP_195144.1	Tail completion protein gp3	Viral particle formation
			YP_195148.1	Sigma factor for late transcription gp5	DNA/RNA processing
			YP_195157.1	Sliding clamp loader gp44	DNA/RNA processing
			YP_195161.1	Putative cytosine-specific methyl transferase, C-terminal portion	DNA/RNA processing
			YP_195165.1	Small heat shock protein	Translation and protein metabolism
			YP_195211.1	Photosystem II D1 protein	Other metabolism
			YP_195214.1	Photosystem II D2 protein	Other metabolism
			YP_195238.1	Head completion gp4	Viral particle formation
			YP_195267.1	Putative helicase	DNA/RNA processing
				Genes of unknown function: 17	
	Cyanophage P-SSM2	NC_006883.1	YP_214238.1	T4-like loader of gp41 DNA helicase	DNA/RNA processing
		_	YP_214271.1	Helicase	DNA/RNA processing
			YP_214340.1	Dioxygenase	Other metabolism
			YP_214341.1	T4-like baseplate wedge	Viral particle associated
			YP_214374.1	RNA-DNA / DNA-DNA helicase ATPase	DNA/RNA processing
			YP_214393.1	T4-like clamp loader subunit	DNA/RNA processing
			YP_214417.1	Recombination and repair protein	DNA/RNA processing
			YP_214418.1	T4-like recA-like recombination protein	DNA/RNA processing
			YP_214438.1	T4-like DNA primase	DNA/RNA processing
			YP_214439.1	Ribonucleoside-diphosphate reductase	Nucleotide metabolism
			YP_214490.1	NDP sugar epimerase/dehydratase	Other metabolism
			11_214470.1	Genes of unknown function: 19	Other metabolism
	Cyanophage P-SSM4	NC_006884.1	YP_214609.1	N4C methyltransferase possible T4-like gp42 homologue	DNA/RNA processing
			YP_214637.1	Redox protein	Other metabolism
			YP_214638.1	T4-like pyrimidine DNA glycosylase DenV	DNA/RNA processing
			YP_214650.1	gp14 T4-like neck protein	Viral particle associated
			YP_214658.1	Putative oxidoreductase	Other metabolism
			YP_214677.1	RNA-DNA / DNA-DNA helicase ATPase, UvsW	DNA/RNA processing
			YP_214679.1	gp55 T4-like sigma factor late transxn	DNA/RNA processing
			YP_214680.1	gp47 T4-like endonuclease	DNA/RNA processing
			YP_214682.1	gp46 T4-like endonuclease	DNA/RNA processing
			YP_214684.1	PcyA, phycocyanobilin:ferredoxin oxidoreductase	Other metabolism
			YP_214691.1	gp62 T4-like clamp loader subunit	DNA/RNA processing
			YP_214692.1	Translation repressor protein	Translation and protein metabolism
			YP_214708.1 YP_214726.1	T4-like recA-like recombination protein, UvsX gp61 T4-like DNA primase	DNA/RNA processing DNA/RNA processing
					1 0
			YP_214732.1	TalC, transaldolase	Other metabolism
	4 21	NG 007022 1	VD 220750 1	Genes of unknown function: 5	DNIA/DNIA
	Aeromonas phage 31	NC_007022.1	YP_238758.1	gp61 T4-like DNA primase	DNA/RNA processing
			YP_238890.1	Putative packaged DNA stabilization protein Dibydrofolate reductors	Viral particle associated
			YP_238934.1	Dihydrofolate reductase Genes of unknown function: 7	Nucleotide metabolism
	Bacteriophage c-st	NC_007581.1	YP_398521.1	Putative uracil permease	Nucleotide metabolism
			YP_398612.1	Putative IS transposase (OrfA)	Mobile elements
				Genes of unknown function: 6	