

ORF	Gene Family	Putative Function ¹	Translation			Size (aa)	Putative Molecular Mass (kDa)	Nearest HCMV homologue ²	Non-Human Primate Homologues		
			Start	Stop	Strand				CyCMV Ottawa	RhCMV 68-1	RhCMV 180.92
CyTRL1	RL1	-	903	2675	+	590	65.808	RL01 ²⁴	CyTRL1 (90.4%)	Rh01 (85.9%)	RhRL1 (86.7%)
Cy02	-	-	1589	1849	+	86	9.794	-	Cy02 (85.3%)	Rh02 (76.8%)	Rh2 (78%)
Cy03	-	-	1993	2730	+	245	26.341	-	Cy03 (69.4%)	-	Rh2.1 (71%)
Cy04	-	-	2727	3224	+	165	18.209	-	Cy04 (95.2%)	Rh03 (91.3%)	Rh3 (90.7%)
Cy05	-	-	3510	2812	-	232	27.064	-	Cy05 (97%)	Rh04 (90.9%)	Rh4 (90.5%)
CyO1 (Cy06)	-	-	2860	3162	+	100	11.511	-	Cy06 (98%)	-	Rh3.1 (94%)
Cy07	-	-	3197	3682	+	161	18.051	-	Cy07 (96.9%)	-	Rh3.2 (92%)
CyRL11A	RL11	IgG Fc binding glycoprotein modulator of antibody activity	3637	4458	+	273	30.151	-	CyRL11 (97.4%)	Rh05 (96%)	Rh5 (95.6%)
CyRL11B (Cy09)	-	-	4821	5303	+	160	18.479	-	Cy09 (44.2%)	Rh06 (86.4%)	Rh6 (86.2%)
CyRL11C (Cy10)	-	-	5415	6038	+	208	23.627	-	Cy10 (58.6%)	Rh07 (59.5%)	Rh7 (60%)
CyRL11D (Cy11)	-	-	6201	6812	+	203	23.135	-	Cy11 (31.2%)	Rh08 (33.8%)	Rh8 (29.1%)
CyO3	-	-	6821	7039	+	72	8.144	-	-	-	-
CyO7	-	-	7795	8019	+	74	8.419	-	-	-	-
CyCOX2A	COX-2	Putative COX-2 Homologue ⁵	8563	8081	-	160	16.88	-	-	Rh10 (94.3%)	Rh10 (94.3%)
CyCOX2B	COX-2	Putative COX-2 Homologue ⁶	8728	8579	-	49	6.126	-	-	Rh10 (92.6%)	-
CyCOX2C	COX-2	Putative COX-2 Homologue ⁶	9357	8743	-	204	23.458	-	-	Rh10 (98%)	Rh10 (98.1%)
CyUL7	RL11	Putative membrane glycoprotein	9040	9480	+	146	16.945	-	CyUL7 (90%)	Rh11 (89.9%)	Rh11 (89.9%)
CyUL6	RL11	Putative membrane glycoprotein	9538	10128	+	192	21.782	UL6 ³⁴	CyUL6 (82.2%)	Rh20 (88.8%)	RhUL6 (88.9%)
CyUL9a	RL11	Temperance factor & Putative membrane glycoprotein	10160	10843	+	227	26.516	UL9 ¹⁰	CyUL9 (97.4%)	Rh21 (61.8%)	Rh21 (66.7%)
Cy20	RL11	Putative membrane glycoprotein ⁶	10997	11146	+	49	6.069	-	-	Rh22 (58.7%)	Rh22 (66.7%)
CyUL11	RL11	Membrane glycoprotein	11044	11721	+	225	25.308	UL9 ²³	CyUL11 (85.4%)	Rh23 (79.7%)	RhUL1 (80.6%)
CyUL9b	RL11	Temperance factor & Putative membrane glycoprotein	11772	12134	+	120	13.631	UL9 ²¹	CyUL9 (95%)	Rh24 (88.3%)	Rh24 (88.3%)
CyUL9c	RL11	Temperance factor & Putative membrane glycoprotein	12213	12887	+	224	24.673	UL9 ²⁶	CyUL9 (92%)	Rh25 (92%)	Rh26 (29.5%)
CyUL9d	RL11	Temperance factor & Putative membrane glycoprotein	12892	13710	+	272	31.067	UL9 ²¹	CyUL9 (89%)	Rh26 (81.4%)	Rh26 (81.8%)
CyRL11Q (Cy22)	RL11	-	13855	14463	+	202	22.99	-	Cy22 (93.6%)	Rh27 (93.6%)	Rh27 (90.1%)
CyRL11R (Cy23)	RL11	-	14465	15088	+	207	23.948	-	Cy23 (75.4%)	Rh28 (86%)	Rh28 (88.4%)
CyRL11S (Cy24)	RL11	Putative membrane glycoprotein ³	15163	16422	+	419	45.885	-	Cy24 (70.5%)	Rh29 (69.1%)	Rh29 (70.7%)
Cy25	-	-	16821	16498	-	107	11.613	-	Cy25 (97.2%)	Rh30 (97.2%)	Rh30 (96.1%)
CyUL13	-	Putative Secreted protein	16538	17848	+	436	50.654	-	CyUL13 (94.7%)	Rh31 (94%)	Rh31 (94.3%)
Cy28	-	-	17203	16760	-	147	16.953	-	Cy28 (95.8%)	Rh32 (89.1%)	Rh32 (89.1%)
CyUL14	UL14	Putative membrane glycoprotein	18123	19034	+	303	35.334	UL14 ³¹	CyUL14 (99.7%)	Rh33 (98%)	RhUL14 (97%)
CyO8	-	-	19309	19599	+	96	11.399	-	-	-	-
CyO9	-	-	19683	19880	+	65	7.73	-	-	-	-
Cy29	-	-	20149	19886	-	87	9.952	-	-	Rh34 (95.4%)	Rh34 (95.4%)
CyUL17 (Cy30)	-	Putative 7 transmembrane protein	19946	20272	+	108	12.773	-	Cy30 (95.4%)	Rh35 (96.3%)	-
CyUL19	-	-	20598	20885	+	95	19.748	UL19 ²²	CyUL19 (96.8%)	Rh35.1 (95.8%)	RhUL1 (94.7%)
CyUL20	-	T cell receptor gamma chain homologue	20994	22364	+	456	51.387	UL20 ¹³	CyUL20 (85.3%)	Rh36 (83.3%)	RhUL2 (83.8%)
CyUL21A	-	Fibroblast Temperance factor & CC chemokine-binding protein	22831	22468	-	120	13.841	UL21A ⁹	CyUL21A (99.2%)	Rh37 (98.3%)	RhUL2 (99.2%)
Cy34	-	-	23375	23187	-	62	6.33	-	Cy34 (68%)	-	-
Cy35	-	-	23529	23314	-	71	8.232	-	-	Rh39 (88.9%)	Rh39 (71.4%)
CyUL23	US22	Temperance factor & Tegument protein	24864	23926	-	312	35.906	UL23 ³⁴	CyUL23 (98.1%)	Rh40 (95.8%)	-
Cy36	-	-	24746	24994	+	82	9.49	-	Cy36 (97.6%)	Rh41 (92.7%)	Rh41 (91.5%)
CyUL24	US22	Temperance factor & Tegument protein	25850	24921	-	309	35.228	UL24 ³⁴	CyUL24 (100%)	Rh42 (98.1%)	UL24 (95.8%)
CyUL25	UL25	Temperance factor & Tegument phosphoprotein	25917	27683	+	588	67.28	UL25 ³¹	CyUL25 (98.3%)	Rh43 (95.1%)	RhUL25 (95.6%)
CyUL26	US22	Transcriptional activator of major immediate early promoter & regulator of tegument protein phosphorylation	28499	27744	-	251	28.188	UL26 ³⁵	CyUL26 (98.8%)	Rh44 (97.5%)	RhUL26 (97.5%)
CyUL27	-	Maribavir resistance	30186	28453	-	577	65.694	pUL27 ⁴³	CyUL27 (99.1%)	Rh46 (97.6%)	RhUL27 (97.6%)
CyUL28	US22	-	31284	30271	-	337	38.679	UL28 ⁹	CyUL28 (98.8%)	Putative Rh50/47 (98.2%)	RhUL28 (98.5%)
Cy42	-	-	30496	30957	+	153	17.046	-	Cy42 (91.1%)	Rh48 (87.6%)	-
Cy43	-	-	31396	31794	+	132	15.247	-	Cy43 (96.3%)	Rh49 (91.7%)	Rh49 (92.4%)
CyUL29	US22	Temperance factor	32424	31414	-	336	38.843	UL29 ⁹	CyUL29 (99.4%)	Rh50 (98.5%)	UL29 (98.2%)
Cy45	-	-	31961	31545	-	138	15.642	-	Cy45 (97%)	Rh51 (93.3%)	Rh51 (94%)
Cy46	-	-	31810	32322	+	170	19.225	-	Cy46 (96.5%)	Rh52 (92.1%)	-
Cy47	-	-	32476	32709	+	77	9.002	-	Cy47 (100%)	Rh52 (100%)	-
CyUL30	-	-	32764	32498	-	88	10.32	UL30 ³³	CyUL30 (100%)	Rh50.1 (96.4%)	-
Cy49	-	-	33188	32754	-	144	17.408	UL30A ⁹	Cy49 (97.7%)	Rh53 (94.8%)	Unknown (94.5%)
CyUL31	dUTPase	Immediate early protein	33071	34696	+	541	61.074	UL31 ³⁵	CyUL31 (99.3%)	Rh54 (97.8%)	UL31 (94.7%)
CyUL32	-	Major Tegument phosphoprotein (pp150)/ binds to capsids/ highly immunogenic	36839	34707	-	710	79.61	pp150 ³⁵ (UL32)	CyUL32 (97.3%)	Rh55 (92.4%)	RhUL32 (92.5%)
Cy52_ex1	-	-	36793	36945	+	50	6.024	-	Cy52 exon 1 (100%)	-	G protein coupled UL33 like (94%)
CyUL33_ex2	GPCR	Constitutive signalling	37207	38196	+	329	37.331	-	CyUL33 (98.5%)	G protein coupled UL33 like (93%)	RhUL33 exon 2 (95.7%)
CyUL34	-	Repressor of US3 transcription	38401	39258	+	285	32.858	UL34 ³⁴	CyUL34 (99.6%)	Rh57 (96.6%)	RhUL34 (99.3%)
Cy54	-	-	38715	39101	+	128	13.906	-	Cy54 (93%)	Rh58 (91.4%)	Rh58 (93.8%)
CyUL35	UL25	ULB2 interacting Tegument phosphoprotein & regulator of virion transactivation and assembly	39321	41093	+	590	66.924	UL35 ⁹	CyUL35 (99.3%)	Rh59 (98.1%)	RhUL25 (22%)
CyUL36_ex1	US22	Immediate early tegument protein / Inhibitor of caspase-8-induced apoptosis	42380	41217	-	387	44.731	UL36 ⁴⁴	CyUL36 (97.4%)	Rh60 (97.4%)	RhUL36 (97.7%)
Cy57	-	-	41487	41786	+	99	11.289	-	Cy57 (93.9%)	-	Rh59.1 (89.9%)
CyUL36_ex2	US22	Immediate early tegument protein / Inhibitor of caspase-8-induced apoptosis	42712	42434	-	92	10.341	UL36 ³⁴	CyUL36 (97.8%)	Rh61 (94.6%)	RhUL36 (97.4%)
CyUL37_ex1	-	Immediate early protein / Mitochondrial inhibitor of apoptosis	43628	42810	-	272	31.148	UL37 ⁴⁰	CyUL37 (97.1%)	Rh62 (98.2%)	RhUL37 (98.2%)
Cy59	-	-	43830	43961	+	43	5.049	-	Cy59 (82.5%)	Rh63 (77.5%)	-
CyUL38	-	Virion Envelope Glycoprotein	44816	43932	-	294	33.344	UL38 ³⁵	CyUL38 (99.3%)	Rh64 (96.6%)	RhUL38 (96.9%)
Cy61	-	-	44001	44366	+	121	13.733	-	Cy61 (95.9%)	Rh65 (94.2%)	Rh65 (93.4%)
Cy62	-	-	44562	44861	+	99	11.442	-	Cy62 (91.9%)	-	Rh65.1 (91.9%)
CyUL37_ex2	-	Immediate early protein / Mitochondrial inhibitor of apoptosis	45142	44858	-	94	10.703	UL37 ⁴⁵	CyUL37 (94.8%)	Rh66 (93.6%)	RhUL37 (93.4%)
CyUL40 (Cy63)	-	-	46023	45493	-	176	18.952	-	Cy63 (100%)	Rh67 (93.2%)	-
CyUL41A	-	Virion Envelope Protein	46340	46101	-	79	9.408	UL41A ³¹	CyUL41A (100%)	Rh67.1 (97.5%)	RhUL41 (98.7%)
CyUL42	-	Putative membrane protein	46858	46472	-	128	14.102	UL42 ²⁰	CyUL42 (91.4%)	Rh68 (92.3%)	RhUL42 (91.4%)
CyUL43	US22	Tegument protein / Putative multiple transmembrane protein	47843	46842	-	333	38.49	UL43 ³¹	CyUL43 (99.7%)	Rh69 (98.2%)	-
CyUL44	Core Gene	DNA polymerase accessory subunit / Increases DNA polymerase product length	49134	47962	-	390	44.011	UL44 ⁸	CyUL44 (99%)	Rh70 (98.5%)	-
Cy68	-	-	48364	48840	+	158	17.891	-	Cy68 (96.2%)	Rh71 (93.7%)	-
CyUL45	Core Gene	Enzymatically inactive large subunit ribonucleotide reductase homologue tegument protein	51927	49375	-	850	96.916	UL44 ³³	CyUL45 (99.6%)	Rh72 (98.1%)	Rh72 (97.9%)
Cy70	-	-	49636	49827	+	63	6.807	-	Cy70 (98.4%)	Rh73 (92.1%)	-
Cy71	-	-	51413	51715	+	100	11.284	-	Cy (0%)	Rh74 (99%)	-
CyUL46	Core Gene	Component of Capsid triplexes (minor capsid binding protein)	52818	51946	-	290	33.128	UL46 ³¹	CyUL46 (99.7%)	Rh75 (98.3%)	-

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			Start	Stop	Strand				CyCMV Ottawa	RhCMV 68-1	RhCMV 180.92
CyUL47	Core Gene	UL48 binding tegument protein involved in intracellular capsid transport	52817	55693	+	958	110.632	UL37 ²⁸	CyUL47 (99.1%)	Rh76 (97.7%)	RhUL47 (97.6%)
CyUL48	Core Gene	Largest Capsid protein involved in intracellular capsid transport	55714	62253	+	2179	246.998	UL48 ²⁴	CyUL48 (99.2%)	Rh78 (98.5%)	RhUL48 (98.6%)
Cy75	-	-	56213	56605	+	130	15.039	-	Cy75 (92.3%)	-	Rh78.1 (89.2%)
CyUL48A	Core Gene	Smallest Capsid protein (located on tip of hexons) putatively involved in capsid transport	62547	62326	-	73	8.439	UL48A ³¹	CyUL48a (100%)	-	-
Cy77	-	-	62405	63091	+	228	24.686	-	Cy77 (99.5%)	Rh79 (99.1%)	-
CyUL49	Betagamma ORF	Membrane protein	64009	62540	-	489	56.125	UL49 ²⁴	CyUL49 (99.6%)	Rh80 (99.2%)	RhUL49 (99.4%)
CyUL50	Core Gene	Inner nuclear membrane protein involved in nuclear egress of capsids	64880	63999	-	293	32.346	UL50 ⁴⁵	CyUL50 (100%)	Rh81 (99.3%)	RhUL50 (99.3%)
CyUL51	GPCR	Terminase component (TER3) / DNA packaging	65241	64906	-	111	12.356	UL33 ⁸	CyUL51 (100%)	Rh82 (99.1%)	RhUL51 (97.3%)
CyUL52	Core Gene	Putatively involved in capsid transport in nucleus	65279	66937	+	552	62.559	UL52 ³³	CyUL52 (98.7%)	Rh83 (98.7%)	RhUL52 (98.9%)
Cy82	-	-	65697	65311	-	128	13.632	-	Cy82 (98.8%)	Rh84 (98.8%)	Rh84 (98.8%)
CyUL53	Core Gene	Tegument protein / Nuclear matrix protein / Capsid and nuclear egress lamina protein	66930	67796	+	288	33.024	UL53 ³⁵	CyUL53 (99.3%)	Rh85 (98.6%)	-
Cy83	-	-	67772	67341	-	143	16.017	-	-	Rh86 (97.9%)	-
CyUL54	Core Gene	DNA polymerase catalytic subunit (POL)	70881	67774	-	1035	116.571	UL54 ³²	CyUL54 (99.9%)	Rh87 (98.9%)	RhUL54 (98.8%)
Cy86	-	-	70702	71079	+	125	14.097	-	Cy86 (96%)	Rh88 (96.8%)	Rh88 (96%)
CyUL55	Core Gene	Virion Envelope Glycoprotein B (gB) / Forms homooligomers / Heparin binding / Role in entry and signalling	73449	70900	-	849	97.466	UL55 ³³	CyGlycoprotein B (cyUL55) (77.7%)	Rh89 (88.7%)	RhUL55 (88%)
Cy87	-	-	72895	72987	+	30	3.516	-	-	Rh90 (72.4%)	Rh90 (72.4%)
CyUL57	Core Gene	ssDNA binding protein	75721	73415	-	768	88.185	UL57 ³²	CyUL57 (99.8%)	Rh92 (99.7%)	RhUL57 (99.6%)
Cy89	-	-	75785	74418	-	455	48.398	-	Cy89 (98.9%)	-	Rh91.1 (97.4%)
Cy90	-	Bat Herpesvirus Homology ⁶	75666	75842	+	58	6.832	-	-	-	-
CyUL56	Core Gene	Terminase component (TER2) / binds DNA packaging motif & nuclease activity	79359	75868	-	1163	129.202	UL56 ²⁸	CyUL56 (99.1%)	Rh91 (99%)	RhUL56 (99.1%)
Cy91	-	-	80825	80577	-	82	9.184	-	Cy91 (87.8%)	Rh93 (86.6%)	Rh93 (86.6%)
Cy92	-	-	80934	80674	-	86	8.889	-	Cy92 (71.4%)	-	-
Cy93	-	-	81372	81064	-	102	10.76	-	Cy93 (98.9%)	Rh95 (96.7%)	Rh95 (97.8%)
CyUL69	Core Gene	Multiple regulatory protein tegument protein / Contributes to cell cycle block and nucleocytoplasmic export of unspliced mRNA	85484	83157	-	775	87.204	UL69 ⁸	CyUL69 (98.1%)	Rh97 (96.7%)	RhUL69 (96.9%)
Cy95	-	-	84148	84456	+	102	11.793	-	Cy95 (100%)	Rh98 (99%)	-
Cy96	-	-	84699	85481	+	260	28.354	-	Cy96 (96.9%)	Rh99 (93.8%)	Rh99 (94.2%)
Cy98	-	-	86693	86884	+	63	7.075	-	Cy98 (88.9%)	-	Rh99.1 (88.9%)
CyUL70	Core Gene	DNA Helicase primase subunit involved in DNA unwinding	88156	85418	-	912	105.521	UL70 ⁸	CyUL70 (99.6%)	Rh100 (98.5%)	RhUL70 (98.5%)
CyUL71	Core Gene	Tegument protein putatively involved in Cytoplasmic egress	88169	88885	+	238	26.247	UL51 ²⁰	CyUL71 (98.3%)	Rh100.1 (95%)	RhUL71 (95.4%)
CyUL72	dUTPase	Enzymatically inactive dUTPase homologue virion protein	89984	88953	-	343	39.208	UL72 ³⁷	CyUL72 (99.7%)	Rh101 (98.3%)	RhUL72 (98%)
CyUL73	Core Gene	Virion Envelope Glycoprotein N (gN) / Complexes with gM involved in entry	89979	90290	+	103	11.713	UL73	CyUL73 (97.1%)	Rh102 (96.2%)	None (0%)
CyUL74	Non-Core	Virion Envelope Glycoprotein O (gO) / Complexes with gH:gL involved in entry	91452	90271	-	393	46.01	UL74 ¹¹	CyUL74 (98.2%)	Rh103 (95.4%)	RhUL74 (95.2%)
CyUL74A	Non-Core	Virion Envelope Glycoprotein 24	91451	91621	+	56	6.415	UL74A ³³	CyUL74A (100%)	-	-
CyUL75	Core Gene	Virion Envelope Glycoprotein H (gH) / Associates with gO & complexes with GL or UL128-131 involved in entry	93831	91669	-	720	81.442	UL75 ⁴⁵	CyUL75 (98.5%)	Rh104 (97.8%)	RhUL75 (97.6%)
CyUL76	Core Gene	Viral associated regulatory protein	93964	94848	+	294	32.85	UL24 ⁸	CyUL76 (98.6%)	Rh105 (100%)	RhUL76 (99.7%)
CyUL77	Core Gene	DNA packaging & Portal Capping protein	94517	96304	+	595	67.331	UL25 ³¹	CyUL77 (99.5%)	Rh106 (99.7%)	RhUL77 (99.5%)
Cy107	-	-	94996	94613	-	127	14.328	-	Cy107 (98.4%)	-	Rh106.1 (97.6%)
CyUL78	GPCR	Putative chemokine receptor protein	96431	97576	+	381	42.149	UL78 ³⁵	CyUL78 (92.9%)	Rh107 (91.3%)	RhUL78 (90.8%)
CyUL79	Betagamma ORF	-	98478	97678	-	266	30.455	UL79 ²⁴	CyUL79 (100%)	Rh108 (98.9%)	RhUL79 (99.2%)
CyUL80	Core Gene	Capsid maturation protease and capsid assembly scaffold protein precursor	98477	100315	+	612	66.39	UL80 ³⁷	CyUL80 (98.7%)	Rh109 (98%)	RhUL80 (98%)
CyUL82	dUTPase / UL82	Tegument phosphoprotein (pp65) (lower matrix protein) / Virion transactivator / degrades	102080	100431	-	549	61.672	UL82 ³⁶	CyUL82 (98.9%)	Rh110 (94.8%)	RhUL83 (24.8%)
CyUL83a	dUTPase / UL82	Major Tegument phosphoprotein (pp65) (upper matrix protein) / Interferon response suppression	103832	102210	-	540	62.106	UL83 ³⁹	CyUL83 (98.5%)	Rh111 (97%)	RhUL83 (96.9%)
Cy113	-	-	102658	102410	-	82	9.098	-	Cy113 (95.2%)	-	-
CyUL83b	dUTPase / UL82	Major Tegument phosphoprotein (pp65) / Interferon response suppression	105532	103901	-	543	61.741	UL83 ³⁹	CyUL83 (95.8%)	Rh112 (96.9%)	RhUL83 (97.2%)
Cy115	-	-	104705	105151	+	148	16.367	-	Cy115 (90.3%)	Rh113 (91.9%)	Rh113 (91.2%)
CyUL84	dUTPase/UL82	Nucleocytoplasmic shuttling and DNA replication organization/Binds IE2	107189	105651	-	512	57.359	UL84 ¹³	CyUL84 (97.9%)	Rh114 (99.4%)	RhUL84 (99.2%)
Cy118	-	-	105712	106080	+	122	13.366	-	Cy118 (98%)	Rh115 (97.5%)	Rh115 (96.7%)
Cy119	-	-	106140	105781	-	119	13.13	-	Cy119 (91.6%)	-	Rh115.1 (92.4%)
Cy120	-	-	106931	107389	+	152	16.124	-	Cy120 (98%)	Rh116 (99.3%)	-
CyUL85	Core Gene	Capsid triplex subunit ²	108030	107104	-	308	34.656	UL85 ³¹	CyUL85 (99.4%)	Rh117 (100%)	-
CyUL86	Core Gene	Major capsid protein	112122	108091	-	1343	151.345	UL86 ²⁸	CyUL86 (99%)	Rh118 (99.4%)	RhUL86 (99.3%)
Cy123	-	-	108656	108970	+	104	11.804	-	Cy123 (99%)	Rh119 (97.1%)	-
Cy124	-	-	110317	109583	-	244	28.846	-	Cy124 (96.3%)	Rh120 (97.5%)	-
CyUL87	Betagamma ORF	-	112137	114692	+	851	96.581	UL87 ³⁶	CyUL87 (99%)	Rh122 (98.7%)	-
CyUL88	Betagamma ORF	Terminase Component putatively involved in Cytoplasmic egress	114704	115906	+	400	45.605	UL88 ¹³	CyUL88 (99.3%)	Rh123 (98.3%)	-
CyUL89_ex1	Core Gene	Terminase Component (TER1) / ATPase subunit	116850	115903	-	315	35.829	UL89 ²⁷	CyUL89 (100%)	UL89 DNA packaging Protein (100%)	RhUL89 (100%)
Cy128	-	-	116566	117135	+	189	20.879	-	Cy128 (96.3%)	Rh125 (93.2%)	Rh125 (92.7%)
CyUL91a	Betagamma ORF	Essential for transcription of true late (γ2) genes ⁵	116849	117040	+	63	7.289	UL91 ¹⁴	-	-	RhORF6 (100%)
CyUL91b	Betagamma ORF	-	117167	117475	+	102	10.84	UL91 ³⁵	CyUL91 (98.1%)	Rh126 (93.2%)	RhUL91 (96.1%)
CyUL92	Betagamma ORF	-	117363	118073	+	236	26.494	UL92 ³⁵	CyUL92 (98.3%)	Rh127 (97.5%)	RhUL92 (99.2%)
CyUL93	Core Gene	Tegument protein putatively involved in Capsid transport	118039	119604	+	521	59.752	UL17 ²⁹	CyUL93 (97.1%)	Rh128 (97.7%)	RhUL93 (97.7%)
Cy132	-	-	118200	118520	+	106	11.189	-	Cy132 (96.2%)	-	Rh128.1 (92.5%)
CyUL94	Core Gene	ssDNA binding cytoplasmic egress tegument protein	119480	120520	+	346	37.682	UL16 ⁹	CyUL94 (98%)	-	RhUL94 (97.4%)
CyUL89_ex2	Core Gene	Terminase Component / ATPase subunit	121440	120517	-	307	35.795	UL89 ³⁵	CyUL89 (99.3%)	UL89 (99.7%)	RhUL89 (100%)
CyUL95	Core Gene	Putative encapsulation chaperone protein	121439	122734	+	431	47.029	UL95 ⁸	CyUL95 (99.2%)	Rh130 (99.2%)	RhUL95 (99%)
CyUL96	-	-	122731	123120	+	129	14.796	UL14 ³¹	CyUL96 (100%)	Rh131 (97.7%)	RhUL96 (96.9%)
CyUL97	Core Gene	Viral serine-threonine protein kinase tegument protein	123177	125003	+	608	67.997	UL97 ³⁰	CyUL97 (99.2%)	Rh132 (95.9%)	RhUL97 (96.4%)
Cy133	-	-	124136	123822	-	104	11.853	-	-	Rh133 (94.2%)	-
Cy134	-	Murid herpesvirus homology ⁶	124487	124248	-	79	8.681	-	-	-	-
CyUL98	Core Gene	DNAse	125054	126724	+	556	63.381	UL98 ³³	CyUL98 (99.6%)	Rh134 (99.8%)	-
Cy138	-	-	125967	125689	-	92	10.188	-	Cy138 (100%)	Rh135 (98.9%)	-
Cy139	-	-	126454	126005	-	149	16.874	-	Cy139 (99.3%)	Rh136 (98.7%)	Rh136 (98%)
CyUL99	Core Gene	Myristylated tegument phosphoprotein (pp28) involved in cytoplasmic egress	126661	127116	+	151	16.654	UL99 ³³	CyUL99 (92.7%)	Rh137 (92.8%)	-

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ORF	Gene Family	Putative Function ¹	Translation			Size (aa)	Putative Molecular Mass (kDa)	Nearest HCMV homologue ²	Non-Human Primate Homologues		
			Start	Stop	Strand				CyCMV Ottawa	RhCMV 68-1	RhCMV 180.92
CyUL100	Core Gene	Virion Envelope Glycoprotein M (gM) / Complexes with gN involved in entry	128353	127283	-	356	41.054	UL100 ³⁷	CyUL100 (99.2%)	Rh138 (98.6%)	-
CyUL102	Core Gene	DNA Helicase primase subunit	128542	130716	+	724	80.418	UL102 ³⁶	CyUL102 (99%)	Rh139 (98.2%)	RhUL10 (98.1%)
CyUL103	Core Genes	Tegument protein putatively involved in nuclear egress / envelope fusion protein	131493	130738	-	251	28.842	UL7 ³¹	CyUL103 (98.4%)	Rh140 (97.2%)	-
CyUL104	Core Gene	Capsid Portal Protein ⁷ /DNA encapsulation	133390	131420	-	656	75.513	UL104 ³⁴	CyUL104 (99.8%)	Rh141 (99.2%)	RhUL104 (99.1%)
CyUL105	Core Gene	DNA Helicase primase subunit	133227	135806	+	859	97.481	UL105 ³⁴	CyUL105 (99.4%)	Rh142 (99.5%)	-
Cy146	-	-	133376	133828	+	150	16.912	-	Cy146 (98%)	-	Rh142.1 (95%)
Cy147	-	-	136674	136805	+	43	5.151	-	Cy147 (100%)	-	Rh142.3 (97.6%)
Cy148_ex1	-	Latency-associated viral Interleukin 10 ⁴	139102	139299	+	65	7.05	-	Cy148_exon 1 (96.9%)	Interleukin-10-like protein precursor (93.8%)	RhUL111 (96.8%)
CyUL111.5A_ex2	-	Latency-associated viral Interleukin 10 ⁴	139187	139648	+	153	17.642	-	CyUL111.5A (96.1%)	Rh143 (93.5%)	RhUL111a (91%)
Cy148_ex3	-	Interleukin 10 like protein precursor ⁴	140026	140115	+	29	3.312	-	Cy148_ex3 (100%)	Interleukin-10-like protein precursor (91.3%)	RhUL111a (91.3%)
CyUL112_ex1	-	Early Phosphoprotein (p50)	140520	141317	+	265	28.286	UL112 ³⁴	CyUL112 (94.3%)	Rh144/Rh145 (94.9%)	RhUL112 (90.6%)
CyUL112/113_ex2	-	Early Phosphoprotein (p84) ⁷ /Transcriptional activation and DNA replication	141416	142300	+	294	30.422	UL112 ⁹	CyUL112/113 (98.3%)	Rh144/Rh145 (94.9%)	RhUL112 (94.9%)
CyUL114	Core Gene	Uracil-DNA glycosylase	143158	142415	-	247	28.253	UL114 ³⁴	CyUL114 (99.6%)	Rh146 (99.2%)	-
CyUL115	Core Gene	Virion Envelope Glycoprotein L (gL)/Associated with GH and complexes with gO or US128-130-131 for entry	143897	143121	-	258	29.176	UL115 ⁴²	CyUL115 (99.6%)	Rh147 (98.4%)	RhUL115 (98.1%)
CyUL116	-	Putative membrane glycoprotein	144987	143908	-	359	38.048	UL116 ³³	CyUL116 (96.7%)	Rh148 (92%)	RhUL116 (83.6%)
Cy153	-	-	144512	145009	+	165	16.703	-	Cy153 (99%)	Rh147.1 (89.2%)	-
Cy154	-	-	145126	144641	-	161	20.015	-	Cy154 (97.5%)	Rh149 (93.5%)	Rh149 (91.9%)
CyUL117	-	-	146117	144969	-	382	42.552	UL117 ²⁰	CyUL117 (100%)	Rh150 (99.7%)	RhUL117 (99.5%)
Cy156	-	-	145953	146182	+	69	7.751	-	Cy156 (96.9%)	Rh149.1 (96.9%)	-
CyUL119_ex1	-	IgG Fc binding glycoprotein modulator of antibody activity/ virion glycoprotein	146743	146144	-	199	23.478	UL119 ²⁰	CyUL119 (93%)	Rh141 (92.5%)	RhUL119 (92.5%)
Cy157_ex2	-	-	147504	146788	-	238	24.188	-	Cy157_exon 2 (88.8%)	Rh152 (93.9%)	RhUL119 (78.7%)
Cy158	-	-	147296	146979	-	105	11.721	-	Cy158 (100%)	Rh153 (87.6%)	Rh153 (87.5%)
CyUL120	UL120	Putative membrane glycoprotein	148149	147553	-	198	22.577	UL120 ³⁸	CyUL120 (100%)	Rh154 (92.4%)	-
CyUL121	UL120	Putative membrane glycoprotein	148699	148151	-	182	21.046	UL121 ¹⁵	CyUL121 (97.8%)	Rh155 (95.6%)	Rh155 (95.1%)
CyUL122	-	Immediate Early 2 Transactivator/DNA-binding repressor activity & cell cycle modulation	150452	148965	-	495	53.824	IL122 ⁴⁶	CyUL122 (92%)	Rh156 (94.3%)	RhUL122 (92.3%)
CyUL123	-	Major immediate early 1 co-transactivator/ enhancer of activation by IE2 & indirect effect on transcription machinery	152140	150953	-	395	44.25	IL123 ⁴¹	CyUL123 (61.9%)	Rh156 (83.5%)	RhUL123 (83.8%)
Cy161_ex3	-	Immediate early protein ⁴	152582	152298	-	94	10.526	-	Cy161_exon 3 (65.9%)	Rh156 (80.6%)	RhUL122 (80.6%)
Cy162	-	-	152697	152954	+	85	10.229	-	Cy162 (93.1%)	Rh156.1 (90.7%)	-
Cy163	-	-	152806	153255	+	149	15.47	-	Cy163 (91.4%)	Rh156.2 (94.7%)	Rh156.2 (95.3%)
Cy161_ex4	-	Immediate early protein ⁴	153101	152991	-	36	4.201	-	Cy161_exon 4 (94.9%)	Rh156 (IE1) (87.2%)	RhUL123 (82.1%)
Cy165a	-	-	153246	153512	+	88	9.609	-	Cy165 (43.1%)	-	-
CyUL126	-	Putative Map Kinase interacting Kinase ⁶	153942	153796	-	48	5.661	UL126 ⁸	CyUL126 (97.9%)	-	-
Cy166	-	-	154358	154507	+	49	5.827	-	Cy166 (98%)	-	Rh157.1 (59.1%)
Cy165b	-	-	154811	154374	-	145	16.433	-	Cy165 (93.8%)	-	Rh157.1 (90.3%)
Cy165c	-	-	154386	154520	+	44	4.918	-	Cy165 (57.9%)	-	Rh157.1 (55.3%)
Cy167	-	-	154492	154695	+	67	7.168	-	Cy167 (94%)	-	Rh157.3 (55.1%)
Cy170	-	-	155050	154517	-	177	20.109	-	Cy170 (73.6%)	Rh157 (75%)	Rh157.3 (74.9%)
Cy168	-	-	154563	154796	+	77	8.476	-	Cy168 (90.9%)	-	Rh157.1 (56.3%)
Cy171	-	-	154735	155139	+	134	15.833	-	Cy171 (77.3%)	Rh157 (67.5%)	Rh157 (73.7%)
Cy165	-	-	154823	154927	+	34	3.748	-	Cy165 (66.7%)	-	-
Cy172	-	-	154839	155084	+	81	9.239	-	Cy172 (75%)	-	Rh157.2 (69.3%)
CyUL128_ex3	-	Putative secreted CC chemokine/ Involved in endothelial and epithelial tropism/ complexes with gH & gL	156220	155894	-	108	12.075	-	CyUL128 (100%)	-	RhUL128 (97.2%)
CyUL128_ex2	-	Putative secreted CC chemokine/ Involved in endothelial and epithelial tropism/ complexes with gH & gL	156519	156430	-	29	3.372	-	-	-	RhUL128 (93.1%)
CyUL128_ex1	-	Putative secreted CC chemokine/ Involved in endothelial and epithelial tropism/ complexes with gH & gL	156798	156634	-	54	6.287	UL128 ¹⁷	CyUL128 (94.4%)	-	RhUL128 (93.6%)
Cy174	-	-	157495	156800	-	231	25.044	-	Cy174 (86.4%)	-	Rh157.4 (77%)
CyUL130	-	Putative Secreted protein involved in endothelial and epithelial tropism/ Complexes with gH & gL	157909	157616	-	97	11.524	UL130 ⁴⁹	CyUL130 (95.9%)	-	RhUL130 (85.6%)
CyUL131A	-	Putative Secreted protein involved in endothelial and epithelial tropism/ Complexes with gH & gL	158506	158249	-	85	9.717	UL131A ¹⁸	CyUL131A (100%)	Rh157.6 (96.5%)	RhUL131a (96.5%)
CyUL132	-	Envelope Glycoprotein /post-entry temperance factor in fibroblasts	159215	158550	-	221	24.275	UL132 ³⁸	CyUL132 (96.6%)	Rh160 (97.4%)	RhUL132 (96.6%)
CyUL148	-	Putative membrane glycoprotein	160261	159281	-	326	36.884	UL148 ⁴⁹	CyUL148 (96.9%)	Rh159 (90.2%)	RhUL148 (87.5%)
CyUL147A	-	Putative membrane protein	160469	160272	-	65	6.957	-	-	-	-
CyUL147	CXCL	CXCL5 chemokine like secreted glycoprotein ⁶	160927	160466	-	153	17.559	UL147 ⁴⁷	CyUL147 (89.6%)	UL147 (96.7%)	UL147 (98.7%)
CyUL146	CXCL	CXCL5 chemokine like secreted glycoprotein ⁶	161322	160978	-	114	12.922	-	CyUL146 (77.9%)	-	RhUL146 (98.2%)
Cy181	-	Putative CXC chemokine like protein ⁴	161762	161568	-	64	7.234	-	Cy181 (90.6%)	-	RhUL146a (98.4%)
Cy182	-	Putative CXC chemokine like protein ⁴	162211	161885	-	108	12.033	-	Cy182 (93.5%)	-	RhUL146b (95.4%)
Cy183	-	Putative CXC chemokine like protein ⁴	162666	162334	-	110	12.498	-	Cy183 (99.1%)	Rh161 (35.2%)	Rh161.1 (93.6%)
Cy184	-	Putative CXC chemokine like protein ⁴	163165	162749	-	138	15.767	-	Cy184 (97.8%)	Rh161 (97.3%)	Rh161.2 (97.1%)
CyUL145	RL1	-	163656	163351	-	101	11.259	UL145 ¹²	CyUL145 (100%)	Rh162 (99%)	RhUL145 (98%)
CyUL144	-	TNF receptor homologue membrane protein	164590	164075	-	171	18.686	-	CyUL144 (98.8%)	Rh163 (98.8%)	RhUL144 (98.8%)
CyUL141	UL14	NK cell inhibiting membrane glycoprotein	166101	164806	-	431	48.822	UL141 ³⁴	CyUL141 (97.2%)	Rh164 (97%)	RhUL141 (96.8%)
CyO11	-	-	166412	166185	-	75	8.539	-	-	Rh164.1 (100%)	-
Cy188	-	-	167041	166595	-	148	17.239	-	Cy188 (98%)	Rh165 (94.6%)	Rh165 (94.6%)
CyO13 (Cy189)	-	-	167615	167088	-	175	19.479	-	Cy189 (93.1%)	Rh166 (94.9%)	Rh166 (94.3%)
CyO14 (Cy190)	-	-	168249	167746	-	167	18.177	-	Cy190 (97.6%)	Rh167 (96.4%)	RhUL148 (83.7%)
CyO15 (Cy191)	-	-	169162	168503	-	219	24.651	-	Cy191 (97.3%)	Rh168 (95.9%)	Rh168 (95.4%)
Cy192	-	-	169259	169690	+	143	16.256	-	Cy192 (86.7%)	-	Rh168.1 (83.9%)
CyO16 (Cy193)	O16	-	169828	169265	-	187	20.667	-	Cy193 (94.7%)	Rh169 (92.5%)	Rh169 (91.4%)
CyO17 (Cy194)	O16	-	170528	169962	-	188	21.24	-	Cy194 (99.5%)	Rh170 (96.3%)	Rh170 (96.8%)
CyO18 (Cy195)	-	-	171370	170531	-	279	30.633	-	Cy195 (96.1%)	Rh171 (92.5%)	Rh171 (92.1%)
CyO19 (Cy196)	-	-	172101	171571	-	176	19.975	-	Cy196 (98.3%)	Rh172 (95.5%)	Rh172 (96.6%)
Cy197	-	-	171826	171978	+	50	5.352	-	Cy197 (96%)	-	Rh171.1 (92%)
CyUL153	RL11	Putative membrane protein ⁴	173280	172153	-	375	40.855	RL13 ¹⁹	CyUL153 (96.5%)	Rh173 (57.9%)	Rh173 (90.9%)
CyO20 (Cy199)	-	-	175499	174417	-	360	40.025	-	Cy199 (92.5%)	Rh174 (93.6%)	Rh174 (93.6%)
Cy200	-	-	176196	176651	+	151	16.309	-	Cy200 (96.7%)	Rh175 (94%)	Rh175 (94.7%)
CyO21 (Cy201)	-	-	176992	176345	-	215	23.507	-	Cy201 (93.1%)	Rh176 (93%)	Rh176 (94.9%)

Table continued on next page

ORF	Gene Family	Putative Function ¹	Translation			Size (aa)	Putative Molecular Mass (kDa)	Nearest HCMV homologue ²	Non-Human Primate Homologues		
			Start	Stop	Strand				CyCMV Ottawa	RhCMV 68-1	RhCMV 180.92
Cy202	-	-	177425	176958	-	155	17.491	-	Cy202 (93%)	Rh177 (79.9%)	Rh177 (79.2%)
CyO22 (Cy203)	-	-	177819	177052	-	255	28.114	-	Cy203 (91.8%)	Rh178 (87.5%)	Rh178 (86.4%)
Cy204	-	-	178111	177896	-	71	7.586	-	Cy204 (87.7%)	-	Rh178.2 (88.9%)
Cy205	-	-	178044	178142	+	32	3.415	-	Cy205 (87.9%)	-	Rh178.1 (76.7%)
Cy206	-	-	178231	178734	+	167	17.956	-	Cy206 (91.6%)	-	Rh178.3 (70.8%)
Cy207	-	-	178371	178694	+	107	11.841	-	Cy207 (87.9%)	-	Rh178.3 (84.6%)
Cy209	-	-	179424	178903	-	173	17.196	-	Cy209 (92.6%)	Rh180 (91.3%)	Rh180 (94.2%)
O23 (Cy208)	-	-	178994	179509	+	171	18.631	-	Cy208 (91.8%)	Rh179 (93%)	Rh179 (94.2%)
CyUS1	US1	-	180039	179533	-	168	19.267	US1 ³⁷	CyUS1 (100%)	Rh181 (97.6%)	RhUS1 (98.8%)
Cy211	-	-	179888	180121	+	77	8.31	-	Cy211 (97.4%)	-	Rh180.1 (96.1%)
CyUS2	US2	Membrane glycoprotein/MHC processing and transport inhibition	180864	180274	-	196	23.139	US2 ⁹	CyUS2 (92.9%)	Rh182 (77.9%)	Rh182 (76.9%)
CyUS5 (Cy214)	-	-	181370	181735	+	121	13.682	-	Cy214 (89.7%)	Rh183 (86%)	Rh183 (86.8%)
CyUS3	US2	Immediate early membrane glycoprotein/MHC processing and transport inhibition	182062	181397	-	221	25.397	-	CyUS3 (94%)	Rh184 (92.6%)	Rh184 (92.6%)
Cy215	-	-	182860	182561	-	99	11.146	-	Cy215 (97%)	-	Rh184.1 (94.9%)
CyUS6 (Cy216)	US6	Putatively inhibits TAP peptide translocation	183514	182942	-	190	21.417	-	Cy216 (96.8%)	Rh185 (95.9%)	Rh185 (95.3%)
Cy217	-	-	184413	183724	-	229	27.241	-	Cy217 (83.1%)	Rh186 (83.2%)	Rh186 (84.1%)
CyUS11a	US6	MHC I degrading membrane glycoprotein	185230	184658	-	190	21.79	-	CyUS11 (92.6%)	Rh187 (94.7%)	Rh187 (94.7%)
CyUS11b	US6	MHC I degrading membrane glycoprotein	185343	185113	-	76	8.399	-	CyUS11 (86.8%)	Rh187 (86.8%)	Rh187 (78.9%)
Cy219	-	-	185813	185439	-	124	14.579	-	Cy219 (92.7%)	Rh188 (98.4%)	-
CyUS11c	US6	MHC I degrading membrane glycoprotein	187041	186100	-	313	36.658	US11 ³⁴	CyUS11 (91.8%)	Rh189 (90.8%)	RhUS11 (90.8%)
Cy223	-	-	187938	187156	-	260	30.051	-	Cy223 (93.6%)	Rh191 (85.5%)	-
CyUS12	US12	Putative multiple transmembrane protein	187855	187313	-	180	19.783	US12 ³⁴	CyUS12 (97.3%)	Rh190 (98.1%)	-
CyUS13	US12	Putative multiple transmembrane protein	188760	187996	-	254	29.726	US13 ³⁶	CyUS13 (99.6%)	Rh192 (100%)	RhUS13 (99.6%)
Cy224	-	-	189251	188766	-	161	18.461	-	-	Rh193 (93.2%)	Rh193 (92.5%)
CyUS14a	US12	Putative multiple transmembrane protein	189706	188873	-	277	31.395	US14 ²⁴	CyUS14 (98.2%)	Rh194 (98.6%)	Rh194 (98.9%)
CyUS14b	US12	Putative multiple transmembrane protein	190565	189837	-	242	27.324	US14 ³¹	CyUS14 (99.2%)	Rh195 (97.9%)	RhUS14 (26.8%)
CyUS14c	US12	Putative multiple transmembrane protein	191416	190658	-	252	29.503	US14 ⁹	CyUS14 (99.6%)	Rh196 (98.8%)	RhUS14 (99.2%)
Cy228	-	-	192247	191522	-	241	27.85	-	Cy228 (96.3%)	Rh197 (95.9%)	Rh197 (95.9%)
Cy229	-	-	192116	191802	-	104	12.443	-	Cy229 (92.1%)	-	Rh196.1 (91.3%)
CyUS17	US12	Putative multiple transmembrane protein	193049	192225	-	274	30.415	US17 ⁴⁵	CyUS17 (98.5%)	Rh198 (97.8%)	RhUS17 (97.8%)
CyUS18	US12	Putative multiple transmembrane protein	193955	193155	-	266	30.015	US18 ³¹	CyUS18 (98.9%)	Rh192 (23.9%)	RhUS18 (98.5%)
CyUS19	US12	Temperance factor and putative multiple transmembrane protein	194860	194075	-	261	30.0734	US19 ²⁴	CyUS19 (96.2%)	Rh200 (96.2%)	Rh200 (95.8%)
CyUS20	US12	Putative multiple transmembrane protein	195682	194921	-	253	28.578	US20 ³⁴	CyUS20 (99.2%)	Rh201 (99.2%)	RhUS13 (27%)
CyUS21	US12	Membrane protein ⁵	196416	195730	-	228	26.086	US21 ²⁸	CyUS21 (100%)	Rh202 (98.2%)	-
CyUS22	US22	Tegument protein	198262	196538	-	574	65.879	US22 ⁹	CyUS22 (98.4%)	Rh203 (97.6%)	RhUS22 (97.4%)
CyUS23	US22	Tegument protein	200292	198421	-	623	72.542	US23 ³⁴	CyUS23 (97.6%)	Rh204 (95.4%)	RhUS23 (95.7%)
Cy237	-	-	199133	198720	-	137	16.402	-	Cy237 (81.2%)	Rh206 (89%)	Rh206 (89.8%)
Cy238	-	-	198925	199248	+	107	12.684	-	Cy238 (94.2%)	Rh205 (88.4%)	Rh205 (88.4%)
Cy239	-	-	200077	200394	+	105	11.668	-	Cy239 (95.2%)	Rh208 (90.5%)	Rh208 (91.4%)
CyUS24	US22	Tegument protein	201746	200316	-	476	56.539	US24 ³²	CyUS24 (99.6%)	Rh209 (99.2%)	RhUS23 (27.1%)
Cy241	-	-	201153	201338	+	61	6.852	-	Cy241 (91.7%)	Rh210 (85.2%)	-
US26	US22	-	203902	202109	-	597	67.842	US26 ⁹	CyUS26 (98.2%)	Rh211 (99.2%)	RhUS26 (99%)
Cy243	-	-	202878	202564	-	104	11.597	-	Cy243 (96.2%)	Rh212 (96.2%)	-
Cy244	-	-	202655	203170	+	171	19.018	-	Cy244 (95.3%)	Rh213 (94.7%)	-
CyUS28a	GPCR	CC and CXC chemokine receptor like virion envelope glycoprotein	204074	205060	+	328	37.497	US28 ⁴²	CyUS28 (99.4%)	Rh214 (98.5%)	Rh214 (98.8%)
CyUS28b	GPCR	CC and CXC chemokine receptor like virion envelope glycoprotein	205395	206408	+	337	38.662	US28 ¹⁶	CyUS28 (99.1%)	Rh215 (93.8%)	Rh218 (38.1%)
CyUS28c	GPCR	CC and CXC chemokine receptor like virion envelope glycoprotein	206543	207544	+	333	38.093	US28 ³⁶	CyUS28 (99.4%)	Rh218 (37.2%)	Rh218 (37.5%)
Cy248	-	-	207720	207439	-	93	10.528	-	Cy248 (96.7%)	Rh217 (89.1%)	Rh217 (91.3%)
US28d	GPCR	Membrane protein	207617	208639	+	340	39.229	US28 ⁴⁸	CyUS28 (98.2%)	Rh218 (96.5%)	Rh218 (97.4%)
Cy250	-	-	208714	208409	-	101	11.545	-	Cy250 (96%)	Rh219 (94.1%)	Rh219 (93.1%)
CyUS28e	GPCR	Membrane protein	208784	210235	+	483	53.429	US28 ⁹	CyUS28 (85.6%)	Rh220 (98.6%)	RhUS28 (98.7%)
CyUS29	US29	Putative membrane glycoprotein	210396	211715	+	439	49.253	US29 ⁹	CyUS29 (97.3%)	Rh221 (94.8%)	RhUS29 (94.6%)
Cy253	-	-	210862	211185	+	107	12.663	-	Cy253 (97.2%)	Rh222 (95.3%)	-
CyUS30	-	Putative membrane glycoprotein	211633	212454	+	273	30.767	US30 ⁹	CyUS30 (98.2%)	Rh223 (96%)	Rh223 (96%)
Cy255	-	-	212933	212316	-	205	22.469	-	Cy255 (96.7%)	Rh224 (94.8%)	Rh224 (94.3%)
CyUS31	US1	-	212530	213015	+	161	18.547	US31 ⁸	CyUS31 (97.5%)	Rh225 (93.2%)	RhUS31 (91.9%)
CyUS32	US1	-	213142	213702	+	186	22.205	US32 ²⁸	CyUS32 (100%)	Rh226 (96.8%)	RhUS32 (96.2%)
Cy259	-	-	213616	213422	-	64	7.203	-	Cy259 (100%)	Rh227 (93.7%)	-
CyO24 (Cy260)	-	-	213845	214150	+	101	10.809	-	Cy260 (98%)	Rh228 (93.1%)	Rh228 (88.3%)
CyO25	-	Putative Secreted protein	214774	214394	-	126	14.167	-	-	Rh228.1 (89.7%)	-
Cy261	-	Putative membrane protein	215251	214793	-	152	16.754	-	Cy261 (92.1%)	Rh229 (85.5%)	Rh229 (84.9%)
CyTRS1	US22	Immediate Early Tegument protein	216947	214872	-	691	77.289	TRS1 ³⁵	CyTRS1 (96.7%)	Rh230 (92.5%)	RhTRS1 (92.8%)