

H3L	MPXV-WRAIR087 MPXV-WRAIR087		963	614	540	488	704	795	828	649	824	573	700	767	699	662	649	612	733	592
		average of replicates	734	615	509	496	665	657	781	649	754	574	669	798	701	684	649	608	706	614
		average all	848.5	614.5	524.5	492	684.5	726	804.5	649	789	573.5	684.5	782.5	700	673	649	610	719.5	603
L4R	MPXV_ZAI1979_088 MPXV_ZAI1979_088		2555	2794	3852	2569	3967	2437	4248	3492	3927	3762	3055	3502	3967	4248	2781	4248	2608	4016
		average of replicates	2468	2531	3715	3327	3715	2781	4143	3405	3715	3492	3492	2940	3492	3927	3927	2877	5062	2863
		average all	2511.5	2662.5	3783.5	2948	3841	2609	4195.5	3448.5	3821	3627	2997.5	3497	3947	4087.5	2829	4655	2735.5	3889
A16L	MPXV_ZAI1979_133 MPXV_ZAI1979_133		127	77	106	123	94	156	133	139	120	104	125	123	110	97	132	129	141	91
		average of replicates	172	96	96	87	57	143	132	134	96	106	128	108	115	112	112	129	131	97
		average all	149.5	86.5	101	105	75.5	149.5	132.5	136.5	108	105	126.5	115.5	112.5	104.5	122	129	136	94
G4L	MPXV_ZAI1979_078 MPXV_ZAI1979_078		110	124	129	106	145	144	85	159	159	154	108	164	136	115	133	131	128	145
		average of replicates	155	99	122	113	114	71	106	142	164	143	69	106	132	123	134	134	136	144
		average all	132.5	111.5	125.5	109.5	129.5	107.5	95.5	150.5	161.5	148.5	88.5	135	134	119	133.5	132.5	132	144.5
E10R	MPXV_ZAI1979_063 MPXV_ZAI1979_063		140	103	125	106	123	103	129	83	70	84	96	127	77	137	80	111	97	84
		average of replicates	118	104	125	94	136	121	121	103	75	92	56	125	84	120	77	113	96	84
		average all	129	103.5	125	100	129.5	112	125	93	72.5	88	76	126	80.5	128.5	78.5	112	96.5	84
E10R	MPXV-WRAIR052 MPXV-WRAIR052 MPXV-WRAIR052 MPXV-WRAIR052		254	286	360	320	268	497	265	325	406	268	378	418	322	341	328	361	372	356
		average of replicates	350	330	439	374	262	446	338	361	341	260	329	327	327	343	267	346	314	321
		average all	3508	504	406	432	350	401	365	429	497	274	549	442	417	354	371	428	546	367
			3159	367	475	349	319	458	354	370	415	262	538	504	370	368	349	401	474	357
		average all	1817.75	371.75	420	368.75	299.75	450.5	330.5	371.25	414.75	266	448.5	422.75	359	351.5	328.75	384	426.5	350.25
A3L	MPXV_ZAI1979_119 MPXV_ZAI1979_119		134	329	348	414	284	341	262	289	314	649	365	132	472	367	372	264	300	483
		average of replicates	161	343	371	445	238	333	187	310	305	580	328	203	460	320	391	267	262	452
		average all	147.5	336	359.5	429.5	261	337	224.5	299.5	309.5	614.5	346.5	167.5	466	343.5	381.5	265.5	281	467.5
A13L	MPXV_ZAI1979_129 MPXV_ZAI1979_129		1513	139	65	92	117	160	112	139	108	123	110	122	120	62	106	97	82	155
		average of replicates	1994	149	83	70	103	164	120	126	115	126	127	124	110	84	118	110	77	169
		average all	1753.5	144	74	81	110	162	116	132.5	111.5	124.5	118.5	123	115	73	112	103.5	79.5	162
A14L	MPXV_ZAI1979_130 MPXV_ZAI1979_130		47	72	97	72	48	68	65	59	62	97	65	45	80	81	76	62	76	65
		average of replicates	58	66	92	77	67	118	52	44	62	105	68	60	69	58	73	59	94	63
		average all	52.5	69	94.5	74.5	57.5	93	58.5	51.5	62	101	66.5	52.5	74.5	69.5	74.5	60.5	85	64
A42R	MPXV_ZAI1979_161 MPXV_ZAI1979_161		135	143	138	104	114	261	101	117	125	121	162	144	126	91	136	103	142	129
		average of replicates	47	136	136	120	160	254	118	127	127	113	262	101	128	121	132	104	132	140
		average all	91	139.5	137	112	137	257.5	109.5	122	126	117	212	122.5	127	106	134	103.5	137	134.5
I2L	MPXV_ZAI1979_068 MPXV_ZAI1979_068		58	277	107	111	75	155	71	113	120	106	105	77	87	105	130	82	139	94
		average of replicates	52	124	106	126	92	127	71	112	144	108	105	83	101	106	123	87	137	90
		average all	55	200.5	106.5	118.5	83.5	141	71	112.5	132	107	105	80	94	105.5	126.5	84.5	138	92

Vaccinia Ortholog	Database ID	Non-Human Primates Day 28 (µg)					Non-Human Primates Day -1 (µg)					Non-Human Primates Day 6 (µg)					Human Controls (µg)					Human Post Vaccination (µg)				
		3	6	7	11	15	3	6	7	11	3	6	7	11	1	2	3	4	1	2	3	4				
A4L	MPKV_ZAI1979_120	2494	9703	2846	5171	829	299.5	344.5	560	302.5	2257	829.5	560	302.5	6554	923.5	1387.5	718.5	3352	3250	3391	22244				
	MPKV_ZAI1979_120	2468	10813	2712	5144	841	307.5	320	581	379.5	2174.5	856	2498	1771	5894.5	951	1199	694.5	2209	2979.5	3073.5	16334				
	average of replicates	2481	10258	2779	5157.5	835	303.25	325.25	570.5	341	2125.75	842.75	2561.25	1801.75	6224.25	937.25	1293.25	760.5	2780.5	3114.75	3232.25	14949				
	average of replicates	4302.1					386.8125				1855.375				2290.313				7116.625							
A4L	MPKV-WRAIR109	2431	5797	2620	4712	764	313.5	475	689	442.5	2065.5	733.5	2051	1361	5535	1004.5	1121.5	767.5	4265.5	6535.5	6017	29564.5				
	MPKV-WRAIR109	2437	5809	2655	4602	706	280	482.5	665.5	455	2116.5	597.5	2589	1350.5	5541	983	1199.5	1116.5	4778	5155.5	5947.5	25159				
	average of replicates	2434	5803	2637.5	4657	735	296.75	478.75	677.25	448.75	2091	665.5	2320	1355	5538	993.75	1160.5	942	4521.75	5845.5	5982.25	27617.5				
	average of replicates	3253.3					473.375				1608				2158.563				10927.8125							
A10L	MPKV_ZAI1979_126	3475	2846	3073	2867	2386	171.5	198	223	210	386	296.5	1012.5	462	8046.5	7374	588.5	1097	11469.5	28811	23615.5	14121				
	MPKV_ZAI1979_126	3492	2808	3090	2781	2434	131	182.5	182.5	173	393	290.5	423	425.5	8789.5	7064.5	541.5	1158	11898	28059.5	22536	13719.5				
	average of replicates	3111	2530	2964	2569	2467	172.5	142	189	222	477	342.5	344	467.5	9201	8289	536	846	10254	26162.5	18226	12059				
	average of replicates	3159	2506	2808	2751	2158	195.5	172.5	154	199.5	483	316	273	421	11305.5	7549	546	869	11533.5	26681.5	16434	10689				
	average of replicates	2794	2431	2738	2383	2129	118	58	78.5	94	257.5	154.5	133	174	6248.5	3701	308	534	12059	22536	13473	13399.5				
	average of replicates	2751	2437	2751	2355	2089	96	66	82	93.5	218	139	176	419	6075	3503	328	485	12227.5	23615.5	14676.5	12865.5				
	average of replicates	3130.333	2593	2904	2617.667	2343.833	147.41667	136.5	151.5	165.33333	369.08333	256.5	393.58333	394.83333	8570	6246.75	474.66667	831.5	11510.25	25977.66667	18160.16667	12808.91667				
	average of replicates	2717.767					150.1875				393.333				4030.729				17114.25							
A26L	MPKV_ZAI1979_146	3135	2964	2437	2227	5387	120	156	138.5	139.5	457.5	293.4	440	452	6975	5312.5	965.5	583	14121	22378	9639	7133.5				
	MPKV_ZAI1979_146	3104	2958	2383	2324	5144	124.5	171.5	149.5	134.5	455	294	436	401.5	6878.5	5465.5	1164	526	14676.5	22244	10254	6842				
	average of replicates	3119.5	2961	2410	2300.5	5265.5	122.25	163.75	144	137	456.25	293.75	438	426.75	6926.75	5389	1064.75	554.5	14398.75	22311	9946.5	6987.75				
	average of replicates	3211.3					141.75				463.6875				3483.75				13411							
A27L	MPKV_ZAI1979_147	5062	3715	4003	1386	898	910	876.5	1261.5	954	2498	3287	2650	2674.5	8289	6277.5	8098.5	1569	13819.5	3801	3113.5	2035				
	MPKV_ZAI1979_147	4602	3111	3967	1325	938	883.5	1248	1161.5	1047.5	2610.5	3230.5	2783.5	2589	8575.5	6457.5	8789.5	1366.5	13122	3092.5	3288.5	1720.5				
	average of replicates	4832	3413	3985	1355.5	918	896.75	1062.25	1211.5	1000.75	2554.25	3256.75	2716.75	2631.75	8432.25	6367.5	8444	1467.75	13470.75	3446.75	3201	1877.75				
	average of replicates	2900.7					1042.8125				2790.375				6177.875				5499.0625							
A27L	MPKV-WRAIR132	5387	3422	4143	1246	701	495	1000.5	824.5	746.5	1732.5	1980.5	2295.5	2150.5	16237.5	6945.5	8575.5	1609	21519	4778	10689	2788.5				
	MPKV-WRAIR132	5277	3405	4268	1263	619	466	850	832.5	757	1889	2389	2022	2053.5	16541.5	6734.5	8289	1673.5	18226	3980	10316.5	2797.5				
	average of replicates	5332	3413.5	4205.5	1254.5	660	480.5	925.25	828.5	751.75	1810.75	2184.75	2158.75	2102	16389.5	6840	8432.25	1641.25	21692.5	4379	10502.75	2793				
	average of replicates	2973.3					746.5				2064.0625				8325.75				9841.8125							
D8L	MPKV_ZAI1979_110	2337	2863	2376	2583	2738	146	155	153	126.5	495.5	975	431.5	3262	4940.5	532.5	587.5	816	1431.5	2833.5	2105.5	3313.5				
	MPKV_ZAI1979_110	2314	3073	2359	2555	2586	140.5	149.5	134.5	161	550.5	993.5	405	3346.5	5212.5	472	522	826.5	1442	2765.5	2092	2375.5				
	average of replicates	2325.5	2968	2367.5	2569	2662	143.25	147.75	143.75	143.75	523	984.25	418.25	3304.25	5076.5	502.25	554.75	821.25	1416.75	2799.5	2078.75	2844.5				
	average of replicates	2578.4					144.625				1307.4375				1738.688				2289.875							
D8L	MPKV-WRAIR099	2706	4268	3104	3327	3927	489.5	437.5	463	490	1396	1679.5	897	5340	5917.5	1761	1534	1455	2537	3330	3847.5	3925.5				
	MPKV-WRAIR099	2363	4248	3141	3159	3762	356	657.5	463.5	372.5	1390.5	1976.5	1230.5	4873	5379.5	1809	1429	1242	2436.5	3018	3920.5	3581.5				
	average of replicates	2784.5	4258	3107.5	3243	3844.5	533.75	547.5	466.25	431.25	1393.25	1828	1063.75	5106.5	5948.5	1785	1481.5	1348.5	2486.75	3174	3884	3753.5				
	average of replicates	3447.5					494.6875				2347.875				2640.875				3324.5625							
D11L	MPKV_ZAI1979_113	252	0	319	799	895	961	1156	1146	1002.5	909.5	592.5	1990	1396	1223	1581	1921.5	610.5	1079	1552.5	1346.5	1780.5				
	MPKV_ZAI1979_113	254	3	323	781.5	984.5	981.5	1365	1094.5	1300.5	1077.5	598	1936	1368.5	1193	1569	1676.5	577.5	1128	1476	1332.5	1464				
	average of replicates	254	3	323	781.5	984.5	971.25	1260.5	1120.25	1151.5	905.5	595.25	1967	1377.25	1208	1575	1799	594	1103.5	1514.25	1339.5	1622.25				
	average of replicates	469.2					1125.875				1332.25				1294				1394.875							
F17R	MPKV_ZAI1979_052	3762	2794	2468	2437	10613	5406	7975	9153	7975	8761	12819	12819	12819	7374	10257	29596	14852	2152	3608	4638.5	3483.5				
	MPKV_ZAI1979_052	3635	2860	2434	2337	9703	9153	5959	7975	5670.5	7770	10546.5	10546.5	10546.5	6945.5	10531	31592	7582	3250	3201.5	5155.5	3639.5				
	average of replicates	3698.5	2827	2451	2387	10258	7309.5	6962.5	8564	6817.75	8265.5	11682.75	11682.75	11682.75	7159.75	10394	30574	11217	2701	3404.75	4897.5	3639.5				
	average of replicates	4324.3					7413.4375				10828.318				14836.19				3638.6875							
H8L	MPKV_ZAI1979_098	2781	2531	2604	2675	2437	333	194	335.5	274.5	1447	747.5	1507	1184.5	7981	3781	950.5	827.5	22536	10204.5	35615	5947.5				
	MPKV_ZAI1979_098	2569	2494	2583	2604	2337	315.5	189.5	338	302.5	1420	828.5	1500	1398	8098.5	4029.5	744	811.5	21622.5	8489	31234.5	4148				
	average of replicates	2675	2512.5	2593.5	2639.5	2387	324.25	191.75	336.75	288.5	1433.5	788	1428.5	1291.25	8039.75	3905.25	847.25	819.5	24349.25	9346.75	33424.75	5047.75				
	average of replicates	2561.5					285.3125				1235.3125				3402.938				18042.125							
H8L	MPKV-WRAIR087	3502	5144	5171	5387	2712	581	691	528.5	503	2004	2584	1608.5	1842.5	10531	5353.5	2002	1163	33786.5	6724	48387	3318				
	MPKV-WRAIR087	3508	5170	5170	5663	2751	592	511	592	534.5	1980.5	2488	1537.5	1947.5	12084	5423.5	2002.5	1170	28059.5	6140.5	40330.5	2765.5				
	average of replicates	3505	5157	5170.5	5525	2731.5	586.5	601	560.25	518.75	2022.25	2536	1573	1895	11307.5	5388.5	2002.25	1166.5	30923	6432.25	44138.75	3041.75				
	average of replicates	4417.8					566.625				2066.5625				4966.188				21188.9375							
L4R	MPKV_ZAI1979_088	2359	2738	5277	2131	2085	1486.5	1499	1704.5	1704.5	1754	1329.5	2163.5	1256	230	682.5	2708	1640.5	1338	12865.5	1941	2956.5				
	MPKV_ZAI1979_088	2376	2655	4761	2121	1994	1217.5	1300.5	1781.5	1340.5	1402.5	843	2127.5	1344.5	2376.5	4518										

		average all	average all	99					average all	68.870135				average all	169				average all	314.125				average all	688.75				
A42R	MPKV_Z411979_161			115	96	132	132	164		123	133	134	113		275.5	393	344.5	299.5		373.5	612.5	413.5	573.5		415	194.5	627.5	323	
	MPKV_Z411979_161			79	100	123	110	249		101	151	123	125		220	396.5	308	339.5		369	578	369.5	590.5		412	189	533	290.5	
		average of replicates	average of replicates	97	98	127.5	121	206.5		average of replicates	97.623378	142	128.5	119	average of replicates	247.75	394.75	326.25	319.5	average of replicates	371.25	595.25	391.5	582	average of replicates	413.5	191.75	580.25	306.75
		average all	average all	130					average of replicates	121.78084				average all	322.0625				average all	485				average all	373.0625				
I2L	MPKV_Z411979_068			162	124	83	103	73		142	110.5	140.5	149.5		399.5	736.5	425	393		348	204.5	271	508		141	110	161	160	
	MPKV_Z411979_068			143	122	72	104	115		152.5	85.5	152.5	147		492.5	732	386	405		361	211.5	275	493.5		146.5	111.5	160	183	
		average of replicates	average of replicates	152.5	123	77.5	103.5	94		average of replicates	138.76028	98	146.5	148.25	average of replicates	446	729.25	405.5	399	average of replicates	354.5	208	273	500.75	average of replicates	143.75	110.75	160.5	171.5
		average all	average all	110.1					average all	132.87757				average all	494.9375				average all	334.0625				average all	146.625				