

Supplementary Materials

I. Strug et al. “Vaccinia peptides eluted from HLA-DR1 isolated from virus-infected cells are recognized by CD4+ T cells from a vaccinated donor. “

Supplementary Figure 1. Ion chromatograms.

Figure Legend

Base peak (most abundant ion) and specific ion intensity plots for fractions containing (A) the highly abundant endogenous peptide derived from MHC class I (B) vaccinia peptide I6L [338-352], (C) vaccinia peptide A10L [393-307] , and (D) the internal control HA peptide. No distinct peak in either base peak or specific ion plots was observed for the lower abundance vaccinia peptide D6R [157-171].

Supplementary Table I - Peptides from infected cells

Supplementary Table II - Peptides from control cells

RAB14, member RAS oncogene family	gij13543869	RSTYNHLSSWLTDR	R	N	95.00%	3.12	0.226	603.336	1806.983	1806.889	3	1.102	609.5
core protein 4a precursor [Vaccinia virus]	gij47088449	SMRYQSLPRLVEFF	I	P	95.00%	3.01	0.128	943.554	1885.092	1886.000	2	0.1001	53.07
		SLIPRLVEFF	Q	P	95.00%	2.38	0.162	610.872	1219.728	1220.705	2	0.0317	26
Saccharopine dehydrogenase	gij20071563	VATPIAMVQAAMTLSSDASHLPKAGGVF	Y	T	76.40%	2.99	0.159	M7 & M12: Oxidation (+16.00)	943.447	2827.316	3	-0.1448	-51.19
MSTP123	gij33338046	ENSPNVFGLAAWNLPPAGH	G	H	90.00%	2.98	0.16	789.289	2364.844	2364.214	3	1.637	692
Ankyrin repeat domain 47	gij42490769	WFRVSSORRSQAEPVARMLEGVRR	E	L	91.70%	2.97	0.237	968.327	2901.959	2901.549	3	1.418	488.4
Adenylosuccinate synthase like 1	gij28839610	EALHGPPKKILVEGANALLDI	Y	D	95.00%	2.97	0.219	756.702	2267.081	2269.292	3	-1.203	-530.6
B-cell receptor CD22 precursor	gij8166019	APEPSTVQILHSPAVEGSQ	Y	V	95.00%	2.92	0.325	974.016	1946.017	1946.983	2	0.042	21.57
immunoglobulin heavy chain variable region	gij80616384	TSANTDYMELRGLTSED	D	T	91.70%	2.9	0.223	M8: Oxidation (+16.00)	959.479	1916.941	2	-0.8849	-461.4
immunoglobulin mu heavy chain	gij54780570	QVQLQQWVQAGLLEPSETLPLT	-	C	69.60%	2.85	0.128	770.046	2307.113	2308.219	3	-0.0982	-42.52
PREDICTED: similar to zinc finger CCOH type containing 12A isoform 3	gij89035093	VSPATSTAKPQSTT	L	S	95.00%	2.78	0.179	496.802	1487.383	1488.791	3	-0.4009	-269.3
Profilin 1	gij34785533	VPKTFVNITPAEVGVL	A	V	95.00%	2.76	0.345	871.428	1740.840	1740.990	2	0.8578	492.5
Zinc finger FYVE domain-containing protein 16	gij50401753	YLNDLDSALIPVIHGGTSSNSLPLEI	H	E	79.10%	2.75	0.227	913.888	2738.641	2738.425	3	1.223	446.6
Leukotriene A4 hydrolase	gij21618615	SVPKELVALMSAIRDGETP	V	D	73.40%	2.72	0.166	672.011	2013.010	2013.069	3	0.9481	470.8
cathepsin S preproprotein	gij23110962	TGKLVSLSAQNLDV	K	C	95.00%	2.72	0.239	723.037	1444.059	1444.801	2	0.2657	183.9
Fibrinogen beta chain	gij78395029	SLRPAPPPISGGYRPARP	P	K	65.50%	2.7	0.245	640.976	1919.903	1920.057	3	0.854	444.6
Solute carrier family 38	gij25955655	IRDFIFGIGASAAAM	T	L	95.00%	2.69	0.195	M15: Oxidation (+16.00)	786.862	1571.709	2	0.9272	589.6
Sestrin-3	gij20141774	FLVEEYSTSGRLDNITQV	N	M	77.50%	2.69	0.164	691.054	2070.139	2071.035	3	0.1118	53.99
ST6 beta-galactosamide alpha-2,6-sialyltransferase 1	gij45708716	HPNQPFYILKPQMPWE	L	L	95.00%	2.51	0.29	1012.842	2023.667	2025.006	2	-0.3309	-163.5
RAB4B, member RAS oncogene family	gij28422140	SRETYNSLAAWLTDART	T	L	91.80%	2.44	0.306	977.401	1952.787	1954.962	2	-1.168	-597.7
Transmembrane protein 127	gij25058970	GASILATAANLLRHYPY	G	E	95.00%	2.42	0.341	884.767	1767.519	1768.971	2	-0.4447	-251.5
major histocompatibility complex, class I, B	gij17986001	RPAGDRTFQKWAAVVPSGEE	T	Q	80.60%	2.41	0.181	767.668	2299.981	2300.179	3	0.8093	351.7
Procollagen-lysine 1, 2-oxoglutarate 5-dioxygenase 1	gij16741721	ISNIYLIKGSALRGEL	Y	Q	82.10%	2.41	0.232	874.359	1746.702	1747.012	2	0.6982	399.5
KIAA0528 protein	gij109658768	VSARSVKLDRHNPDE	V	P	94.00%	2.4	0.237	650.264	1947.767	1949.057	3	-0.2821	-144.8
unnamed protein product	gij50833928	AQLLWTLQDRMGRRPG	A	G	70.30%	2.35	0.186	864.246	1726.477	1725.912	2	1.574	910.9
steroid regulatory element binding transcription factor 1 isoform a	gij52630419	AGDAVSVATLAEIYVAAALRVK	C	T	59.20%	2.35	0.298	1095.383	2188.750	2188.234	2	1.524	695.9
Unknown gene product	gij3417294	VGQLQSVPTLNSPIYMAKQK	S	G	80.80%	2.35	0.162	678.111	2031.308	2032.054	3	0.2618	128.8
REX2, RNA exonuclease 2 homolog	gij85397892	RGVREGGAAMAAGESMA	A	Q	95.00%	2.33	0.227	M10 & M16: Oxidation (+16.00)	827.593	1653.171	2	1.43	864.7
Chromosome 22 open reading frame 16	gij40806990	AVGSAVGHVMSALTGAF	V	S	91.60%	2.33	0.177	544.323	1629.944	1631.822	3	-0.8697	-533.3
ATP-binding cassette sub-family B member 8	gij13123950	VOIPLLLGQLVKVAK	N	Y	90.50%	2.25	0.272	859.391	1716.766	1718.131	2	-0.3568	-207.7

ATP synthase, H+ transporting, mitochondrial F0 complex, subunit c	gi 2490988	PKFEVIEKPQA	D	-	95.00%	2.84	0.160		643.29	1284.56	1285.72	2	-0.15	-12C
TP5311 protein	gi 73909101	TLAETGLMSLGIALLLSRLLFVV	A	I	74.50%	2.70	0.176	M8: Oxidation (+16)	863.45	2587.34	2587.55	3	0.79	310
hypothetical protein	gi 50949934	AYQANILVEDATIGIVDNELLTS	G	S	70.70%	2.69	0.110		821.65	2461.93	2462.27	3	0.67	270
Mitochondrial 28S ribosomal protein S22	gi 13633893	SWEERDRMIQVYFPKEGR	A	K	62.10%	2.69	0.190		776.51	2326.52	2326.14	3	1.4	600
Regulatory factor X, 5 (influences HLA class II expression)	gi 17028337	AEVPSVSEASGQAPPAKAKQDIEDTASDAKRR	T	R	87.80%	2.68	0.121		1089.36	3265.07	3265.67	3	0.41	130
NMDA receptor-binding protein yotiao	gi 7513208	QYQEHQQATELLRQAHPQM	R	E	95.00%	2.66	0.211		823.44	2467.29	2467.16	3	1.1	460
Interleukin 10 receptor, beta	gi 12804903	IIGPPGMQVEVLLADSLHMPRF	T	L	87.00%	2.62	0.165		737.68	2210.01	2210.15	3	0.87	390
Putative helicase Mov101	gi 22095856	IDDMIYFSSDAVTSRV	M	L	81.10%	2.61	0.162		606.78	1817.31	1818.86	3	-0.55	-30C
Protocadherin beta 16	gi 23271279	PRSATATLHVLLVDGFSQPFLPLP	P	E	78.70%	2.60	0.184		859.77	2576.29	2576.42	3	0.87	340
mitochondrial tumor suppressor 1 isoform 3	gi 50348622	MTYTAFSDVVMQ	D	S	94.70%	2.60	0.201		696.33	1390.64	1392.62	2	-0.97	-70C
KIAA1737	gi 22713560	AWAKLQASLTPGSSNTGSDLEA	Q	F	68.10%	2.59	0.131		734.97	2201.9	2204.08	3	-1.2	-53C
PEST proteolytic signal containing nuclear protein	gi 18314420	SIKLGSSPKKTVPTLA	I	P	81.40%	2.58	0.141		878.61	1755.21	1756.02	2	0.19	110
Proteasome-associated protein ECM29 homolog (Ecm29)	gi 61212960	AEQVEPLEAVLHLVIASSDTRHS	E	V	64.10%	2.58	0.200		834.86	2501.56	2501.3	3	1.3	510
similar to Argininosuccinate synthase (Citrulline--aspartate ligase)	gi 51095136	MEGKVQVPIFKGVQ	Q	H	75.10%	2.58	0.131		780.38	1558.74	1559.86	2	-0.12	-75
OTU domain containing 7A	gi 18702331	SPARAAALRTVNTVESLARAVPGALPGAAGTAGAAE	Y	H	95.00%	2.58	0.225		1115.74	3344.18	3344.8	3	0.39	120
LOC51334 protein	gi 62201630	LENGGMGISHNSFPPIR	P	P	89.50%	2.52	0.130		638.49	1912.44	1912.93	3	0.51	270
ZNF532 protein	gi 71051469	MTMGDMKTPDFDILLAA	-	F	70.10%	2.52	0.148	M3 and M6: Oxidation (+16)	635.28	1902.81	1903.81	3	0.0023	1.2
hypothetical protein CG003	gi 12957488	WSNTSPVGNNGYIKPPVPPASGTHREK	S	G	95.00%	2.51	0.271		925.77	2774.28	2776.42	3	-1.1	-41C
Chromosome X open reading frame 26	gi 30354299	SLPAESYGNPDIEMAWAM	L	R	90.50%	2.50	0.188		699.45	2095.34	2096.9	3	-0.55	-26C
Capping protein (actin filament), gelsolin-like	gi 15778939	KANEKERQAALQVAEGFISRMQ	R	Y	80.90%	2.48	0.186		835.27	2502.78	2504.3	3	-0.52	-21C
Adenylate cyclase type 3 (Adenylate cyclase type III)	gi 13878450	TYMAASGVTPDVNTNGF	S	A	81.30%	2.40	0.150		582.13	1743.36	1744.79	3	-0.42	-24C
novel protein	gi 57209485	PTLRSGIVMEVPPGNTRACRGK	I	L	83.90%	2.34	0.197	M9: Oxidation (+16)	1235.29	2468.56	2468.32	2	1.3	500
Transcription factor 7-like 1	gi 37590620	YLSNGPLSPGGARTYLQMK	P	W	95.00%	2.32	0.231		685.01	2052	2053.05	3	-0.046	-22
PH domain leucine-rich repeat-containing protein phosphatase	gi 67460982	LLQVPAEASDEGIVISANEDEPG	H	L	75.20%	2.29	0.166		785.07	2352.17	2353.14	3	0.037	16

