

Table 3. Sequences of peptides eluted from HLA-DR

Gene symbol	Peptide sequence													Entrez gene ID	Score	Rank													
	-	-	-	1	2	3	4	5	6	7	8	9	+				+	+											
	3	2	1										1	2	3														
HLA-A				F	V	R	F	D	S	D	A	A	S	Q	R		3105	28	1/256										
				F	V	R	F	D	S	D	A	A	S	Q	R	M	E			3105									
				Q	F	V	R	F	D	S	D	A	A	S	Q	R	M			E	3105								
			T	Q	F	V	R	F	D	S	D	A	A	S	Q					3105									
			T	Q	F	V	R	F	D	S	D	A	A	S	Q	R				3105									
			T	Q	F	V	R	F	D	S	D	A	A	S	Q	R	M				3105								
			T	Q	F	V	R	F	D	S	D	A	A	S	Q	R	M			E	P	3105							
		D	T	Q	F	V	R	F	D	S	D	A	A	S	Q					3105									
		D	T	Q	F	V	R	F	D	S	D	A	A	S	Q	R				3105									
		D	T	Q	F	V	R	F	D	S	D	A	A	S	Q	R	M				3105								
		D	T	Q	F	V	R	F	D	S	D	A	A	S	Q	R	M			E	3105								
		D	T	E	F	V	R	F	D	S	D	A	A	S	Q	R	M			E	3105								
		D	T	Q	F	V	R	F	D	S	D	A	A	S	Q	R	M			E	P	3105							
		D	T	E	F	V	R	F	D	S	D	A	A	S	Q	R	M			E	P	3105							
		D	T	E	F	V	R	F	D	S	D	A	A	S	Q	R	M			o	E	P	3105						
		D	T	Q	F	V	R	F	D	S	D	A	A	S	Q	R	M			E	P	R	3105						
		D	T	Q	F	V	R	F	D	S	D	A	A	S	Q	R	M			E	P	R	A	P	3105				
		D	D	T	Q	F	V	R	F	D	S	D	A	A	S	Q	R					3105							
		D	D	T	Q	F	V	R	F	D	S	D	A	A	S	Q	R			M	E	3105							
		D	D	T	Q	F	V	R	F	D	S	D	A	A	S	Q	R			M	E	P	3105						
		D	D	T	Q	F	V	R	F	D	S	D	A	A	S	Q	R			M	E	P	R	3105					
	V	D	D	T	Q	F	V	R	F	D	S	D	A	A	S	Q	R					3105							
	V	D	D	T	Q	F	V	R	F	D	S	D	A	A	S	Q	R			M		3105							
	V	D	D	T	Q	F	V	R	F	D	S	D	A	A	S	Q	R			M	E	P	3105						
	V	D	D	T	Q	F	V	R	F	D	S	D	A	A	S	Q	R			M	E	P	R	3105					
	V	D	D	T	Q	F	V	R	F	D	S	D	A	A	S	Q	R			M	E	P	R	A	P	3105			
	V	D	D	T	Q	F	V	R	F	D	S	D	A	A	S	Q	R			M	E	P	R	A	P	W	3105		
	V	D	D	T	Q	F	V	R	F	D	S	D	A	A	S	Q	R			M	E	P	R	A	P	W	I	E	3105
	V	D	D	T	E	F	V	R	F	D	S	D	A	A	S	Q	R					3105							
	T	T	K	H	K	W	E	A	A	H	V	A	E	Q	L	R				3105	22	5/256							
		K	H	K	W	E	A	A	H	V	A	E	Q	L	R		3105												
	HLA-B			T	L	F	V	R	F	D	S	D	A	T	S	P				3106	28	1/362							
			D	T	L	F	V	R	F	D	S	D	A	T	S	P	R			K			E	P	R	A	P	3106	
		V	D	D	T	L	F	V	R	F	D	S	D	A	T	S	P			R			K	E	P	R	A	P	3106
			L	S	S	W	T	A	A	D	T	A	A	Q	I	T							3106						
			L	S	S	W	T	A	A	D	T	A	A	Q	I	T	Q						3106						
			L	S	S	W	T	A	A	D	T	A	A	Q	I	T	Q			R				3106					
			L	S	S	W	T	A	A	D	T	A	A	Q	I	T	Q			R			K	W		3106			
			L	S	S	W	T	A	A	D	T	A	A	Q	I	T	Q			R			K	W	E		3106		
			L	S	S	W	T	A	A	D	T	A	A	E	I	T	E			R			K	W	E		3106		
			D	L	S	S	W	T	A	A	D	T	A	A	Q	I	T						3106						
			D	L	S	S	W	T	A	A	D	T	A	A	Q	I	T			Q				3106					
			D	L	S	S	W	T	A	A	D	T	A	A	Q	I	T			Q			R		3106				
			D	L	S	S	W	T	A	A	D	T	A	A	Q	I	T			Q			R	K	W		3106		
			D	L	S	S	W	T	A	A	D	T	A	A	Q	I	T			Q			R	K	W	E		3106	
		D	L	S	S	W	T	A	A	D	T	A	A	Q	I	T	Q	R	K	W			E	A	A	3106			
		D	L	S	S	W	T	A	A	D	T	A	A	Q	I	T	Q	R	K	W			E	A	A	R	V	A	3106
E		D	L	S	S	W	T	A	A	D	T	A	A	Q	I	T	Q	R		3106									
E		D	L	S	S	W	T	A	A	D	T	A	A	Q	I	T		3106											
E		D	L	S	S	W	T	A	A	D	T	A	A	Q	I	T	Q	R	K	W				3106					
E		D	L	S	S	W	T	A	A	D	T	A	A	Q	I	T	Q	R	K	W			E		3106				
E		D	L	S	S	W	T	A	A	D	T	A	A	Q	I	T	Q	R	K	W			E	A	A	R	V	A	3106
N		E	D	L	S	S	W	T	A	A	D	T	A	A	Q	I	T	Q	R	K			W		3106				
L		N	E	D	L	S	S	W	T	A	A	D	T	A	A	Q	I	T	Q	R			K	W	E		3106		
		K	D	Y	I	A	L	N	E	D	L	S	S	W	T	A		3106	26	4/362									
		G	P	E	Y	W	D	R	E	T	Q	I	S	K	T	N		3106					28	1/362					

Gene symbol	Peptide sequence	Entrez gene ID	Score	Rank
	- - - 1 2 3 4 5 6 7 8 9 + + + 3 2 1 1 2 3			
HLA-B	L R W E P S S Q S T V P I V G I V A G	3106	26	4/362
HLA-C	F V Q F D S D A A S P R G E P	3107	28	1/366
	T Q F V Q F D S D A A S P R	3107		
	T Q F V Q F D S D A A S P R G E P R	3107		
	D T Q F V Q F D S D A A S P R	3107		
	D T Q F V Q F D S D A A S P R G	3107		
	D T Q F V Q F D S D A A S P R G E P R	3107		
	D T Q F V Q F D S D A A S P R G E P R A P	3107		
	D D T Q F V Q F D S D A A S P R	3107		
	V D D T Q F V Q F D S D A A S P R G E P R	3107		
	V D D T Q F V Q F D S D A A S P R G E P R A P	3107		
	Y V D D T Q F V Q F D S D A A S P R G E P R A P	3107		
	D Y I A L N E D L R S W T	3107	18	35/366
	D Y I A L N E D L R S W T A	3107		
	K D Y I A L N E D L R S W T A	3107		
	K D Y I A L N E D L R S W T	3107		
	K D Y I A L N E D L R S W	3107		
	G K D Y I A L N E D L R S W T	3107		
	G K D Y I A L N E D L R S W T A	3107		
	D G K D Y I A L N E D L R S W T	3107		
	D G K D Y I A L N E D L R S W T A	3107		
	D G K D Y I A L N E D L R S W T A A	3107		
	G R L L R G Y N Q F A Y D G K	3107	22	8/366
HLA-E	L R S W T A V D T A A Q I S	3133	28	1/358
	L R S W T A V D T A A Q I S E Q	3133		
	D L R S W T A V D T A A Q I S E Q	3133		
IGHMBP2	E P R R Y G S A A A L P S	3508	22	27/993
CLN5	G H L K I M H D A I G F R	1203	18	45/407
	L G H L K I M H D A I G F R	1203		
HLA-DRB1	Y V R F D S D V G E Y	3123	22	6/266
	Q E E Y V R F D S D V G E Y R	3123		
	H Q E E Y V R F D S D V G E Y R	3123	22	6/266
	H Q E E Y V R F D S D V G E Y R A	3123		
	H Q E E Y V R F D S D V G E Y R A V	3123		
	G A G L F I Y F R N Q K G H S	3123	22	6/266
HLA-DRA	A Q G A L A N I A V D K A N L E I	3122	20	13/254
	I Q A E F Y L N P D Q S G E F	3122	20	13/254
HLA-DQB1	D V E V Y R A V T P L G P P D	3119	20	9/229
HLA-DPB1	N R E E F V R F D S D V G E F R	3115	22	1/58
	R E E F V R F D S D V G E F R	3115		
B2M	Y T E F T P T E K D E Y	567	22	4/119
	Y Y T E F T P T E K D E Y	567		
	L L Y Y T E F T P T E K	567		
	L L Y Y T E F T P T E K D	567		
	L L Y Y T E F T P T E K D E	567		
	L L Y Y T E F T P T E K D E Y	567		
	L L Y Y T E F T P T E K D E Y A	567		
	Y L L Y Y T E F T P T E K	567		
	Y L L Y Y T E F T P T E K D	567		
	Y L L Y Y T E F T P T E K D E	567		
	Y L L Y Y T E F T P T E K D E Y	567		
	Y L L Y Y T E F T P T E K D E Y A	567		
	F Y L L Y Y T E F T P T E K D	567		
	F Y L L Y Y T E F T P T E K D E Y	567		
	F Y L L Y Y T E F T P T E K D E Y A	567		
HLA-G	V D D T Q F V R F D S D S A C P R M E P	3135	28	1/338

Gene symbol	Peptide sequence	Entrez gene ID	Score	Rank
	- - - 1 2 3 4 5 6 7 8 9 + + + 3 2 1 1 2 3			
HLA-G	Y V D D T Q F V R F D S D S A C P R M E P R A P	3135		
HLA-DMA	F G P T F V S A V D G L S F Q	3108	22	5/257
ENO1	K E K Y G K D A T N V G D E G G	2023	22	9/433
	I K E K Y G K D A T N V G D E G G	2023		
	I K E K Y G K D A T N V G D E G G	2023		
	V I K E K Y G K D A T N V G D E G G	2023		
	G V P L Y R H I A D L A G N	2023	16	66/433
	G V P L Y R H I A D L A G N S E V	2023		
	V P L Y R H I A D L A G N S E V I	2023		
	V P L Y R H I A D L A G N S E V	2023		
	V P L Y R H I A D L A G N S E	2023		
	V P L Y R H I A D L A G N	2023		
GM2A	G N Y R I E S V L S S S G	2760	22	2/193
	G N Y R I E S V L S S S G K	2760		
	T G N Y R I E S V L S S S G	2760		
	T G N Y R I E S V L S S S G K	2760		
	T G N Y R I E S V L S S S G K R	2760		
	T T G N Y R I E S V L S S S G	2760		
	T T G N Y R I E S V L S S S G K	2760		
	L G C I K I A A S L K G I	2760	20	6/193
	R L G C I K I A A S L K G I	2760		
SLC2A14	V P M Y I G E I S P T A L R	144195	28	1/497
MIF	S P D R V Y I N Y Y D M N A A N	4282	20	5/114
	V P D G F L S E L T Q Q L A Q	4282	28	1/114
	V P D G F L S E L T Q Q L A Q A	4282		
TFRC	C P S D W K T D S T C R M V T	7037	28	1/760
	C P S D W K T D S T C R M V T S	7037		
	C P S D W K T D S T C R M V T S E	7037		
	F T Y I N L D K A V L G T S N	7037	22	19/760
	Y V A Y S K A A T V T G K L	7037	22	19/760
	N S Q L L S F V R D L N Q Y R A D I	7037	26	5/760
DHX34	I R F V V D S G K V K E M	9704	22	21/576
RAD23B	L L Q Q I S Q H Q E H F	5887	20	15/409
TUBB1	A K F W E V I S D E H G I D P T	7280	22	17/444
TUBB5	E P Y N A T L S V H Q L	10382	22	17/444
	E P Y N A T L S V H Q L V E	10382		
EEF1A1	I E K F E K E A A E M G K G	1917	20	18/463
	I E K F E K E A A E M G K G S	1917		
	I E K F E K E A A E M G K G S F	1917		
	T I E K F E K E A A E M G K G S F	1917		
	S K Y Y V T I I D A P G H R D	1917	16	60/462
HSPA5	V P T K K S Q I F S T A S D N Q P T V T	3309	20	29/654
	V M R I I N E P T A A A I A Y G	3309	26	5/654
HSPA6	G E R A M T K D N N L L G R F E	3310	20	23/643
HSPA1B	R I I N E P T A A A I A	3303	26	5/641
	R I I N E P T A A A I A Y G	3303		
	V L R I I N E P T A A A I A	3303		
	V L R I I N E P T A A A I A Y	3303		
	V L R I I N E P T A A A I A Y G	3303		
	N V L R I I N E P T A A A I A	3303		
	N V L R I I N E P T A A A I A Y	3303		
	N V L R I I N E P T A A A I A Y G	3303		
HSPA8	E G E R A M T K D N N L L G K F E	3312	20	15/646
	G E R A M T K D N N L L G K F E	3312		
	G E R A M T K D N N L L G K F E L	3312		
	E R A M T K D N N L L G K F E	3312		

Gene symbol	Peptide sequence	Entrez gene ID	Score	Rank
	- - - 1 2 3 4 5 6 7 8 9 + + + 3 2 1 1 2 3			
HSPA8	E R A M T K D N N L L G K F E L R A M T K D N N L L G K F E G I L N V S A V D K S T G K E	3312 3312 3303		
IL27RA	V P Y R I T V T A V S A S G V G V P Y R I T V T A V S A S G	9466 9466	20 22	21/646 9/636
AHSG	I S R A Q F V P L P V S V S V E	280988	22	6/359
SYNGR2	N P K D V L V G A D S V R A A I T F	9144	26	3/224
MS4A1	S G P K P L F R R M S S L V G P T Q S F S G P K P L F R R M S S L V G P T Q S G P K P L F R R M S S L V G P T Q S G P K P L F R R M S S L V G P T G P K P L F R R M S S L V G P G P K P L F R R M S S L V G P	931 931 931 931 931 931	18	41/297
	o x			
RAB6B	L I P S Y I R D S T V A V V V	51560	28	1/208
RAB7	F P E P I K L D K N D R A K A S A	7879	26	2/207
CTSC	D H N F V K A I N A I Q K S W Y D H N F V K A I N A I Q K Y D H N F V K A I N A I Q K S Y D H N F V K A I N A I Q K S W Y D H N F V K A I N A I Q K S W T K Y D H N F V K A I N A I Q K S W T S G M D Y W I V K N S W G T G W G K V V V Y L Q K L D T A Y D	1075 1075 1075 1075 1075 1075 1075 1075 1075	28 22	1/463 11/463 30/463
CTSC	K K V V V Y L Q K L D T A Y D D L G	1075	20	
TF	F V K D Q T V I Q N T D D V A F V K D Q T V I Q N T D D V A F V K D Q T V I Q G D V A F V K D Q T V I Q G D V A F V K D Q T V I Q N T D	7018 7018 7018 7018 7018	28	1/704
CNDP2	L A K W V A I Q S V S A W P E	55748	28	1/475
WBSR1	D I D A I F K D L S I R S V R	7458	26	1/248
GEF2	A I F L F V D K T V P Q S S L T A I F L F V D K T V P Q S S L A I F L F V D K T V P Q S S F V D K T V P Q S S L L P S E K A I F L F V D K T V P Q S S L P S E K A I F L F V D K T V P Q S S	11345 11345 11345 11345 11345 11345	18 26	17/117 2/117
M17S2	S G T Q F V C E T V I R S L S G T Q F V C E T V I R S L T S G T Q F V C E T V I R S L T L D	4077 4077 4077		22/966
RAP1A	T E Q F T A M R D L Y M K N	5906	16	30/184
CTSZ	G T E Y W I V R N S W G E P W	1522	22	6/303
LGMN	V P K D Y T G E D V T P Q N G V P K D Y T G E D V T P Q N	5641 5641	22	11/433
GAPD	L Q N I I P A S T G A A K A V G	2597	26	4/334
DKFZp43400 32.1	L L Q K L I L W R V L		20	24/415
HIST1H2BL	V N D I F E R I A S E A S R L A H Y N V N D I F E R I A S E A S R L A D I F E R I A S E A S R L A H Y N D I F E R I A S E A S R L A H Y D I F E R I A S E A S R L A H D I F E R I A S E A S R L A D I F E R I A S E A S R L	8340 8340 8340 8340 8340 8340 8340	26	2/125
APOB	S A S Y K A D T V A K V Q G			

Gene symbol	Peptide sequence	Entrez gene ID	Score	Rank
	- - - 1 2 3 4 5 6 7 8 9 + + + 3 2 1 1 2 3			
APOB	S A S Y K A D T V A K V Q G T			
	S A S Y K A D T V A K V Q G T E			
SCAMP2	S S R T F H R A A S S A A Q G A F	10066	28	1/329
	S S R T F H R A A S S A A Q G A	10066		
	S R T F H R A A S S A A Q G A	10066		
	R T F H R A A S S A A Q G A F	10066		
SCAMP3	Y G S Y S T Q A S A A A A T	10067	22	13/347
	Y G S Y S T Q A S A A A A T A	10067		
	Y G S Y S T Q A S A A A A T A E	10067		
DPP7	L P F G A Q S T Q R G H T E	29952	20	23/492
IFITM1	D R K M V G D V T G A Q A Y A	8519	26	2/125
	D R K M V G D V T G A Q A Y	8519		
	L G F I A F A Y S V K S R D	8519	26	2/125
	V P D H V V W S L F N T L	8519	18	25/125
SORL1	K P G I Y R S N M D G S A A Y	6653	18	231/2214
	R H P I N E Y Y I A D A S E D Q V F	6653	28	1/2214
UBE2L3	N P P Y D K G A F R I E I N F P A E Y P F K P P	7332		
	P P Y D K G A F R I E I N F P A E Y P F K P P	7332		
Unnamed protein DNPEP	G P P I G S F T L I D S E V S Q L		20	37/626
	F E L F P S L S H N L L V D	23549	22	12/475
PON2	S P D D K Y I Y V A D I L A H E I H	5445	22	8/354
GDI2	E P I E Q K F V S I S D L L V P K	2665	22	14/445
SLC1A5	V A A V F I A Q L S Q Q S L D F V K	6510	26	4/541
D4ST1	L P K Y I L D F S L	113189	14	73/376
	D V L P K Y I L D F S L	113189		
SIAT1	G I L I V W D P S V Y H S D I P	6480	20	18/406
ABCC4	A P V L F F D R N P I G R I L	10257	26	19/1325
MMS19L	L V A F R I V H D L I S R D Y S	64210	22	38/1030
LARGE	N P L H F H L I A D S I A E Q I L	9215	22	18/756
PPFIBP1	M E L P D Y V L L T A T	8496	14	193/1005
RNASSET2	S L E L Y R E L D L N S V L L	8635	22	3/256
ITGA4	I D I S F L L D V S S L S R A E	3676	28	1/1038
	I D I S F L L D V S S L S R A E E	3676		
GNA13	L N I F E T I V N N R V F S	10672	28	1/377
TIP120A	L E A L D I M A D M L S R Q G G	55832	20	65/1230
	o x L E A L D I M A D M L S R Q G	55832		
ITGB7	L F F F L V E D D A R G T V	3695	26	10/798
PGK1	R V V M R V D F N V P M K N	5230	26	4/417
	G P V G V F E W E A F A R G T	5230	16	63/417
ATIC	L V E F A R N L T A L G L N L V	471	26	6/592
RPS13	L P P N W K Y E S S T A S A	6207	28	1/150
RPS10	D R D T Y R R S A V P P G A D	6204	12	31/165
	A D R D T Y R R S A V P P G A D	6204		
	R D T Y R R S A V P P G A D	6204		
CTSD	L S R D P D A Q P G G E	1509	14	88/412
	I F S F Y L S R D P D A Q P G	1509	16	75/412
NAPB	D Y Y K G E E S N S S A N K	63908	28	1/298
CCT2	S L M V T N D G A T I L K N	10576	20	24/535
CPD	V P G T Y K I T A S A R G Y N	1362	20	72/1380
	V P G T Y K I T A S A R G Y N P V	1362		
SLAMF6	D T G S Y R A Q I S T K T S A K	114836	22	6/331
KIAA1691	G S S Y G S E T S I P A A A H	80727	28	1/558
CPNE3	V A R F A A A A T Q Q Q T A	8895	28	1/537
LY6E	K P T I C S D Q D N Y C V T	4061	14	25/131

Gene symbol	Peptide sequence	Entrez gene ID	Score	Rank
LY6E	L K P T I C S D Q D N Y C V T	4061		
PSAP	G P S Y W C Q N T E T A A Q	5660	22	8/524
C19orf10	T E E F E V T K T A V A H R P G	56005	22	5/173
NEDD4L	D G R T F Y I D H N S K I T Q	23327	28	1/854
UBQLN1	N P D T L S A M S N P R A M Q	29979	20	16/589
ALDOA	A P G K G I L A A D E S T G S I A	226	26	2/363
TNFAIP3	E I I H K A L I D R N I Q	7128	20	38/790
IMPA1	Y P S H S F I G E E S V A A G E K	3612	28	1/227
VDAC2	A A K Y Q L D P T A S I S A	7417	28	1/347
PPGB	L P G L A K Q P S F R Q Y S G	5476	20	30/480
COCH	R R F N L Q K N F V G K V A	1690	16	84/550
	G Q R R F N L Q K N F V G K V A	1690		
	I G Q R R F N L Q K N F V G K V A L	1690		
TAX1BP1	H K G E I R G A S T P F Q F R	8887	26	2/789
SEMA7A	I S I Y S S E R S V L Q	8482	28	1/666
STX6	N P R K F N L D A T E L S I R	10228	28	1/255
	N P R K F N L D A T E L S I R K	10228		
	N P R K F N L D A T E L S I R K A	10228		
PTPRC	S P G E P Q I I F C R S E A A H Q G	5788	20	65/1304
	S P G E P Q I I F C R S E A A H Q G V I	5788		
IGLC1	K S Y S C Q V T H E G S T	3537	18	9/105
	K S Y S C Q V T H E G S T V	3537		
	S H K S Y S C Q V T H E G S T	3537		
	S H K S Y S C Q V T H E G S T V	3537		
	S H K S Y S C Q V T H E G S T V E K T	3537		
	K S Y S C Q V T H E G S T V E K	3537		
	K S Y S C Q V T H E G S T V E	3537		
	H K S Y S C Q V T H E G S T V	3537		
	H K S Y S C Q V T H E G S T V E	3537		
	S H K S Y S C Q V T H E G S T V E	3537		
	K S H K S Y S C Q V T H E G S T V E	3537		
	T P E Q W K S H K S Y S C Q V T H E G S T V E	3537		
IGHM	G P T T Y K V T S T L T I K	3507	18	44/454
	G P T T Y K V T S T L T I K E	3507	18	44/454
	S G P T T Y K V T S T L T I K	3507		
	S G P T T Y K V T S T L T I K E S D W L	3507		
	E S G P T T Y K V T S T L T I K E S D W L	3507		
IGH@	Y L Q M N S L K T E D T	3492	26	1/33
	T L Y L Q M N S L K T E D	3492		
	T L Y L Q M N S L K T E D T	3492		
	T L Y L Q M N S L K T E D T A	3492		
	N T L Y L Q M N S L K T E D T	3492		
	N T L Y L Q M N S L K T E D T A	3492		
	K N T L Y L Q M N S L K T E D T A	3492		
UBA52	S D Y N I Q K E S T L H L V	7311	26	1/76
	D Y N I Q K E S T L H L V L R	7311		
ACLY	Y P E E A Y I A D L D A K S G A S	47	22	24/1001
HTGN29	R G Y M E I E Q S V K S F K	56951	28	1/265
WDR1	A P S G F Y I A S G D V S G K L R	9948	22	12/606
	A P S G F Y I A S G D V S G K L	9948		
ATP1A1	I V V Y T G D R T V M G R I A T	476	22	31/1023
	I V V Y T G D R T V M G R I A	476		
CTSS	G K E Y W L V K N S W G H N	1520	22	6/331
	T T A F Q Y I I D N K G I D	1520	18	40/331
	T T A F Q Y I I D N K G I D S D	1520		

Gene symbol	Peptide sequence	Entrez gene ID	Score	Rank
CTSS	K N L K F V M L H N L E H S M	1520	22	6/331
CLTCL1	L E K I V L D N S V F S E H R N	8218	26	17/1640
RNF13	I P S V F I G E S S A N S L K D	11342	28	1/381
MTP18	I P I I I H P I D R S V D	51537	20	9/206
LAPTMS	L P S Y E E A L S L P S K T P	7805	28	1/262
	L P S Y E E A L S L P S K T P E	7805		
	L P S Y E E A L S L P S K T P E G	7805		
	G Y L R I A D L I S S F	7805	22	12/262
	V V L P S Y E E A L S L P S K T P E	7805	28	1/262
TPI1	L K P E F V D I I N A K Q	7167	20	10/248
YWHAE	R A S W R I I S S I E Q K E E	7531	28	1/255
GLG1	K V N L L K I K T E L C K K E V	2734	20	36/1179
	V N L L K I K T E L C K K E V	2734		
	D P E L D Y T L M R V C K Q M I K	2734	20	36/1179
	L G K W C S E K T E T G Q E	2734	22	20/1179
PPIA	V S F E L F A D K V P K T A E N	5478	20	6/164
CCR7	I A Y D V T Y S L A C V R	1236	26	6/378
	N I A Y D V T Y S L A C V R	1236		
PTGFRN	V P G F A D D P T E L A C R V	5738	28	1/879
SLC3A2	T G A L Y R I G D L Q A F Q G H G	6520	20	26/529
ALB	S P D L P K L K P D P N T L C D E F	280717	20	30/607
RAB4A	G A L L V Y D I T S R E T Y N	5867	20	19/213
CCT7	A T Q Y F A D R D M F C A G R V P	10574	16	106/543
	V A T Q Y F A D R D M F C A G R V P	10574		
GPC4	V T R A F V A A R T F A Q G L	2239	28	1/556
MAP1LC3B	T P I S E V Y E S E K D E D G F L	81631	20	11/124
	T P I S E V Y E S E K D E D G F L Y	81631		
TNFSF9	G P L S W Y S D P G L A G V S	8744	16	84/254
VCP	Q L I Y I P L P D E K S R V A	7415	26	5/806
MAN2B1	V D Y F L N V A T A Q G R Y Y	4125	26	7/1010
	H P P E L L F S A S L P A L G	4125	20	68/1010
	H P P E L L F S A S L P A L G F S	4125		
	H P P E L L F S A S L P A L G F S T	4125		
CLSTN3	N P P L F A L D K D A P L R Y	9746	22	21/956
Dlc2	M E K Y N I E K D I A A Y I K	140735	22	3/89
LNPEP	D V R K L Y W L M K S S L N G D N	4012	22	28/1025
ANXA2	V P K W I S I M T E R S V P H	302		28/338
	D V P K W I S I M T E R S V P H L	302		
	D V P K W I S I M T E R S V P H L Q	302		
C10orf128	T G K T P G A E I D F K Y A L I G T A V G V A	170371	22	3/155
C6orf211	I P W F V S D T T I H D F N	79624	26	4/441
IL6ST	I E V W V E A E N A L G K V T	3572	22	24/918
CD74	M H H W L L F E M S R H S L E	972	26	2/296
	A T P L L M Q A L P M G A L P Q G P	972	20	14/296
DDX1	G Y L P N Q L F R T F	1653		
CREG	W G A L A T I S T L E A V R	8804	28	1/220
VPS35	D P D P E D F A D E Q S L V G R F I	55737	22	31/796
HPCL2	A I P F V I E K A V R S S I Y	26061	26	2/578
	A I P F V I E K A V R S S I Y G			
ACAA1	L K P A F K K D G S T T A G N	30	28	1/424
KIAA0494	F S Q F L G D P V E K A A Q	9813	22	13/495
APOD	Q E L R A D G T V N Q I E G			
CD38	R D M F T L E D T L L G Y L A D	952	22	7/300
	R D M F T L E D T L L G	952		
	R D M F T L E D T L	952		
	V Q R D M F T L E D T L	952		

Gene symbol	Peptide sequence	Entrez gene ID	Score	Rank
	- - - 1 2 3 4 5 6 7 8 9 + + + 3 2 1 1 2 3			
ACTG1	W I S K Q E Y D E S G P S I V H R K C F	71	18	40/375
	T D Y L M K I L T E R G Y S	71	20	20/375
	T D Y L M K I L T E R G Y S F	71		
	T D Y L M K I L T E R G Y S F T	71		
	R D L T D Y L M K I L T E R G Y S	71		
	G R D L T D Y L M K I L T E R G Y S	71		
RAB8	A F F T L A R D I K A K M D	4218	28	1/207
	N A F F T L A R D I K A K M D	4218		
AGRN	G R S F L A F P T L R A Y H T	375790	28	1/2026
	G R S F L A F P T L R A Y H T L	375790		
	E G R S F L A F P T L R A Y H T L	375790		
	P V P A F E G R S F L A F P T L R A Y H T L	375790		
	A P V P A F E G R S F L A F P T L R A Y H T L	375790		
IGF2R	L I T F L C D R D A G V G F P E	3482	22	43/2491
	L I T F L C D R D A G V G F P	3482		
UBE2L3	K G A F R I E I N F P A E Y P F K P P	7332	28	1/154
	D K G A F R I E I N F P A E Y P F K P P	7332		

Peptides are arranged according to their HLA-DR4 binding motive (www.syfpeithi.de), indicated by score and rank. Anchor amino acids are printed bold.