

**Table 3. Synthetic Peptides Tested for Recognition by T Cells against DT Melanoma Antigens**

RANK	ANTIGENS							
	gp100/B7 <sup>(a)</sup>	Tyr/A26 <sup>(a)</sup>	Tyr/B38 <sup>(b)</sup>	GPNMB <sup>mut./A3</sup> <sup>(a)</sup>	SNRP116 <sup>mut./A3</sup> <sup>(a)</sup>	RBAF600 <sup>mut./B7</sup> <sup>(a)</sup>	SIRT2 <sup>mut./A3</sup> <sup>(a)</sup>	SNRPD1 <sup>mut./B38</sup> <sup>(b)</sup>
1	LPSPACQLV	DRESWPSVF	HHAFVDSIF	TLDWLLQTPK	ILDAVVAQK	RPHVPESAF	KIFSEVTLK	SHETVIEL
2	AQRLCQPVL	RTCQCSGNF	LHHAFVDSI	TLGWLLQTPK	KILDAVVAQK	GPHVPESAF	KIFSEVTPK	SHETVTIEL
3	QPVLPSPAC	SVFYNRTCQ	LHHAFVDSIF	TLDWLLQTP	ILDAVVAQE	RPHVPESAFA		
4	GCQPPAQL	ESWPSVFYN		TLGWLLQTP	KILDAVVAQE	GPHVPESAFA		
5	QPPAQLRCQ	CTERRLLVR		LDWLLQTPK				
6	PSPACQLVL	GVDDRESWP		LGWLLQTPK				
7	SPGCQPPAQ	DDRESWPSV		HTLDWLLQTP				
8	VLPSPACQL	QCQSGNFMGF						
9	SPACQLVLH	CQCQSGNFMGF						
10	KGGSGTYCL	GFNCGNCKF						
11	GTYCLNVSL	FTGVDDRES						
12	VSLADTNSL	CQCQSGNFMGF						
13	SLAVVSTQL	CSGNFMGFN						
14	SSPGCQPPA <sup>(c)</sup>	CSGNFMGFNC						
15	CQLVLHQIL							
16	AVVSTQLIM							
17	ISSPGCQPP							
18	SSPGCQPPAQ							
19	PGCQPPAQR							

Peptides encoded by positive cDNA fragments (for gp100, Tyr/A26 and Tyr/B38) or from the protein regions around mutated residues were ranked according to public peptide prediction algorithms [(a) SYFPEITHI (<http://www.syfpeithi.de/>), (b) BIMAS ([http://thr.cit.nih.gov/molbio/hla\\_bind/](http://thr.cit.nih.gov/molbio/hla_bind/))] and then synthesized and tested for T cell recognition.

white : peptides not recognized at concentrations up to 100  $\mu$ M;

red : peptides recognized at concentrations below 100 nM; (c) peptide induced half-maximal lysis by independently generated CTL clones against gp100/B7 at concentrations of 0.1 to 1.0  $\mu$ M only (see **Table 1** and online supplemental **Fig. 8**);

green : overlapping peptides recognized at higher concentrations than optimum peptides;

red characters indicate mutated residues.