

**Table S1. Peptide sequences of short class-I peptides.**

	Antigen name					
	NY-ESO-1	MAGE-C1	MAGE-C2	5T4	Survivin	MUC-1
<b>Peptide sequence</b>	SLLMWITQC	ILFGISLREV	LLFGLALIEV	LTYVSFRNL	ELTLGEFLKL	STAPPVHNV
	MLMAQEALAFI	KVVEFLAML	ALKDVEERV	GAFEHLPSL	RISTFKNWPFL	LLLLTVLTV
	LMAQEALAFI		FLAKLNNTV	DLPAYVRNL	FLKLDRERA	STAPPAHGV
	ASGPGGGAPR		SESIKKKVL	RLARLALVL	AYACNTSTL	TLAPATEPA
	LAAQERRVPR		ASSTLYLVF	FLTGNQLAV	FFCFKELEGW	
	TVSGNILTIR		KVAELVEFL	PLADLSPFA	EPDLAQCFE	
	ELVRRILSR				CPTENEPDL	
	APRGPHGGAASGL					
	APRGVRMAV					
	MPFATPMEA					
	KEFTVSGNILTI					
	MPFATPMEA					
	LAMPFATPM					
	ARGPESRLL					
	LEFYLAMPF					