

Figure S1

	1 α 1- α 2 domains										
C*01:02:01	MRVMAPRTLI	LLLSGALALT	ETWA-----	CSHSMKYFFT	SVSRPGRGEP	RFISVGYVDD	TOFVRFDSDA	ASPRGEPRAP	WVEQEGPEYW	DRETQYKRO	70
C*03:02:01	-----	-----	-----	G---R--Y- A-----	-----	H--A-----	-----	-----	-----	-----	
C*12:02:02	-----	-----	-----	----R--Y- A-----	-----	---A-----	-----	-----	-----	-----	
C*01:02:01	AQTDRVSLRN	LRGYNQSEA	GSHTLQWMC	CDLGPDGRLL	RGYDQYAYDG	KDYIALNEDL	RSWTAADTAA	QITQRKWEAA	REAEQRRAYL	EGTCVEWLR	170
C*03:02:01	-----	-----	---I--R-Y-	--V-----	----S----	-----	-----	-----	-----L---	--L-----	
C*12:02:02	--A-----	-----	-----R-Y-	-----S----	-----	-----	-----	-----	-----W---	-----	
	α 3 domain										
C*01:02:01	YLENGKETLQ	RAEHPKTHVT	HHPVSDHEAT	LRCWALGFYP	AEITLTWQWD	GEDQTQDTEL	VETRPAGDGT	FQKWAAVMVP	SGEEQRYTCH	VQHEGLPEPL	270
C*03:02:01	--K-----	-----	-----	-----	-----	-----	-----	-----V--	-----	-----	
C*12:02:02	-----	-----	-----	-----	-----R	-----	-----	-----V--	-----	-----	
	Transmembrane helix										
C*01:02:01	TLRWEFSSQP	TIPVIGIVAG	LAVLAVLAVL	GAVVAVVMCR	RKSSGGKGGG	CSQAASSNSA	QGSDESLIAC	KA	342		
C*03:02:01	-----	-----	-----	-----	-----	-----	-----	---			
C*12:02:02	-----	-----	-----	-----M-----	-----	-----	-----	---			

Fig. S1. The sequence alignment of HLA-C*12:02:02 with HLA-C*01:02:01 and HLA-C*03:02:01. The amino-acid sequences, residue numbers and the sequence alignment of HLA-C alleles were searched from the website of HLA Nomenclature (<http://hla.alleles.org>). The three HLA-C alleles are proteins of 342 amino acids, consisting of α 1- α 2 domains (yellow region), α 3 domain (green region) and a transmembrane helix (cyan region). The amino-acid residues marked in magenta represent the unique amino-acid residues in the HLA-C*12:02:02, when compared to the sequence of HLA-C*01:02:01 and HLA-C*03:02:01.