



Figure 1A



Figure 1B

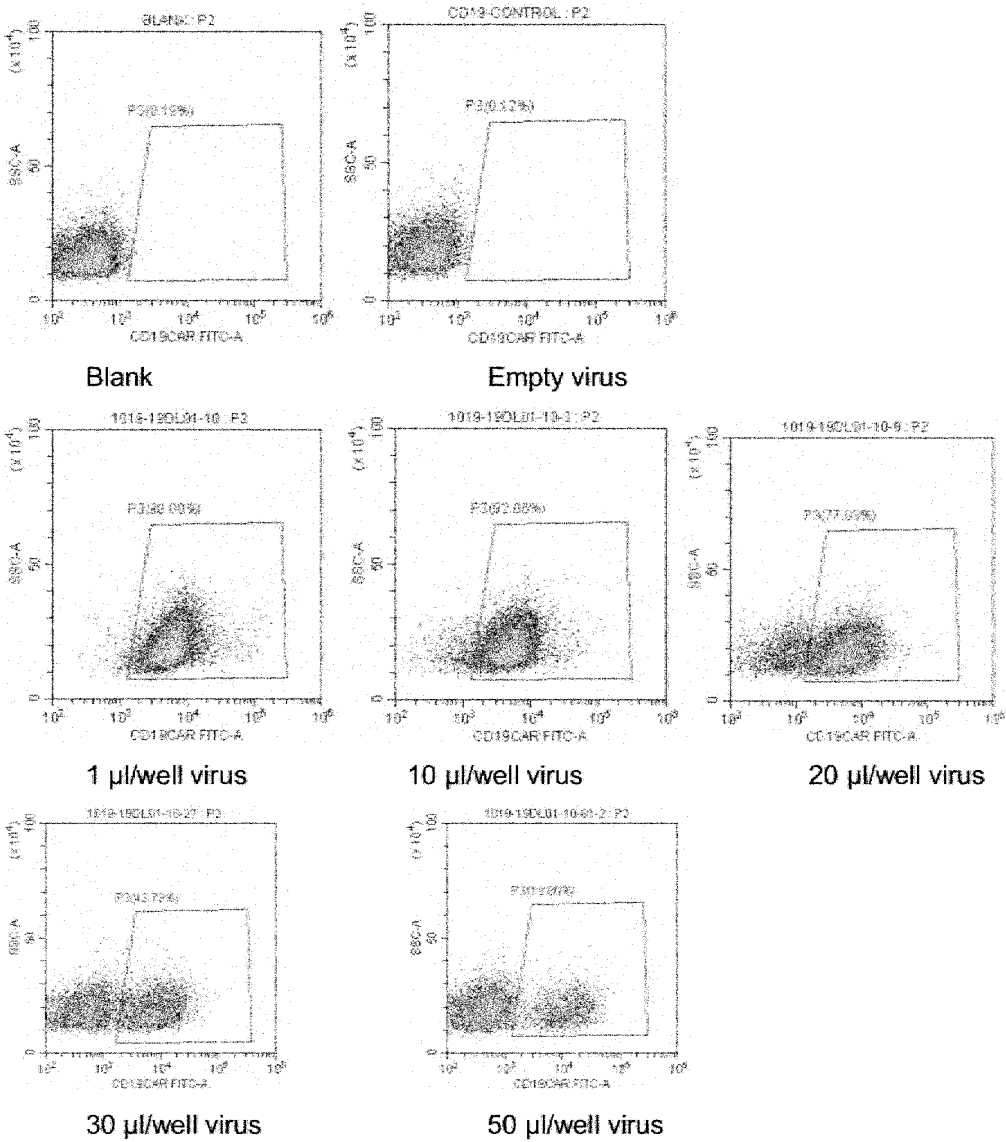


Figure 2

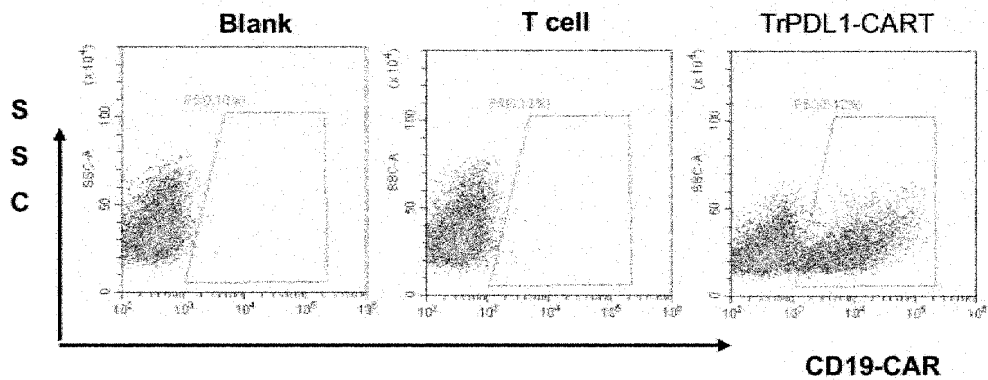


Figure 3A

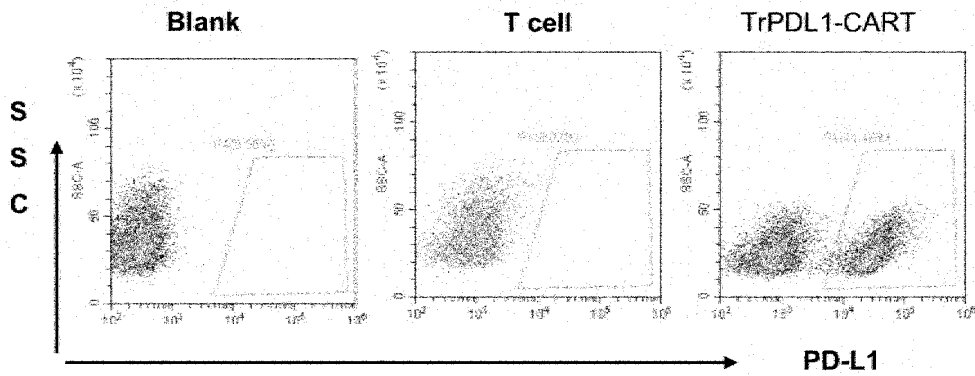


Figure 3B

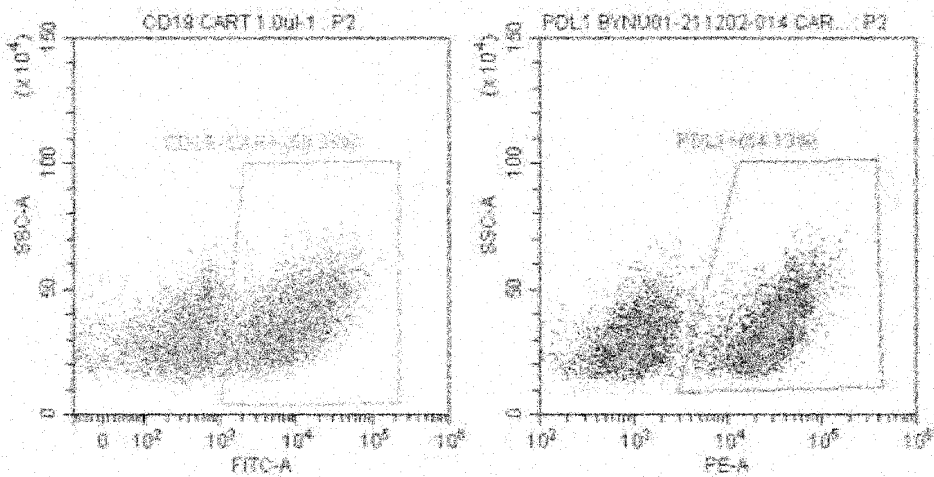


Figure 3C

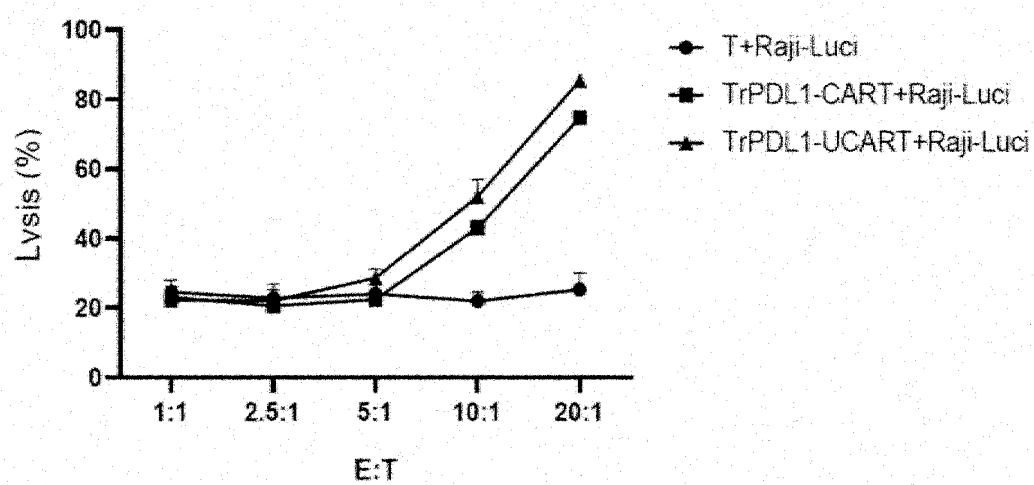


Figure 4A

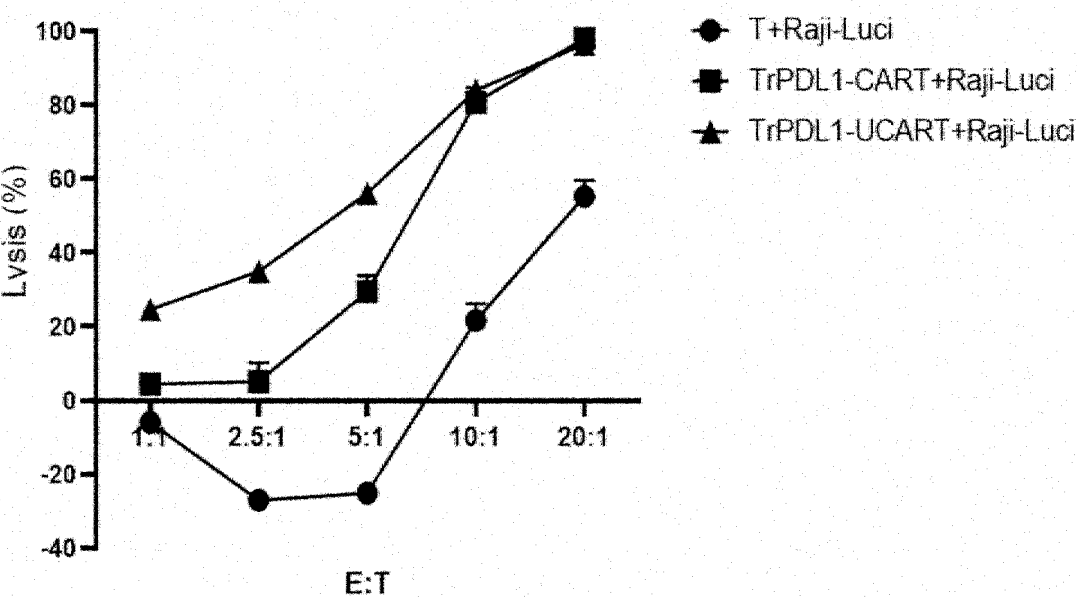


Figure 4B

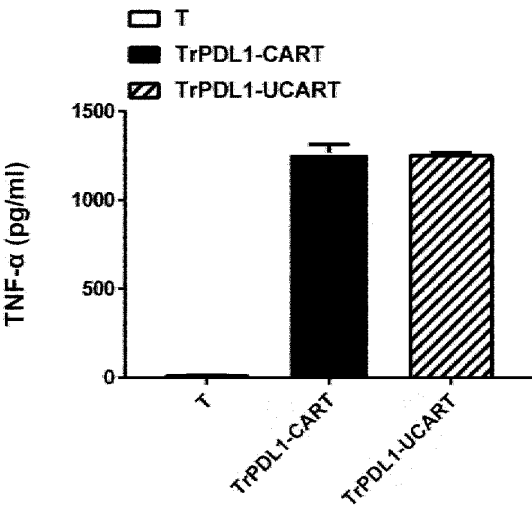


Figure 5A

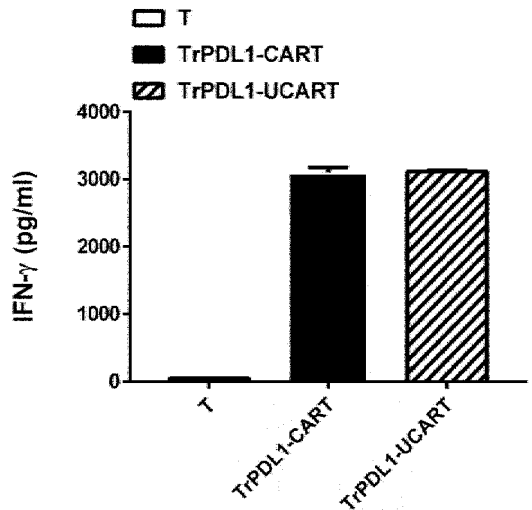


Figure 5B

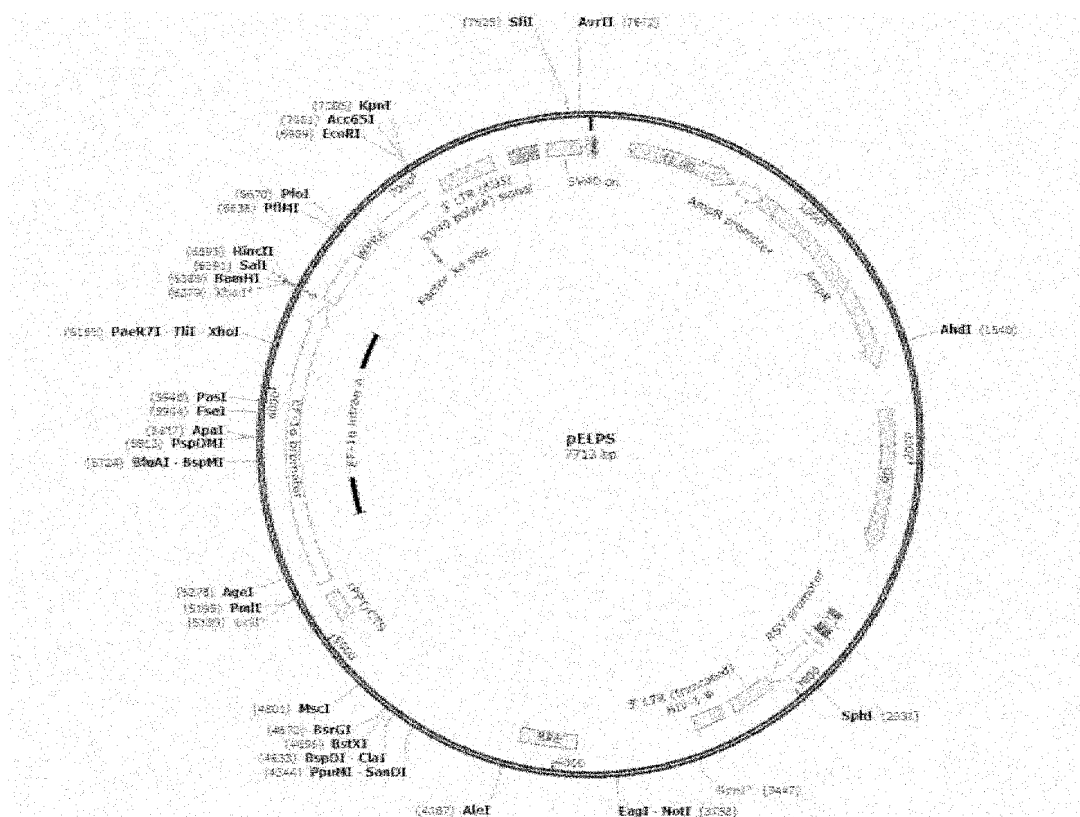


Figure 6

CD3/CD28 ab+His-PD1

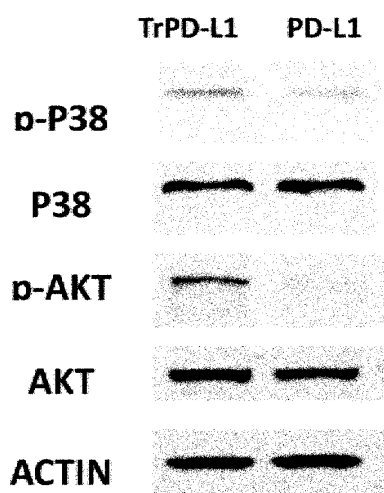


Figure 7

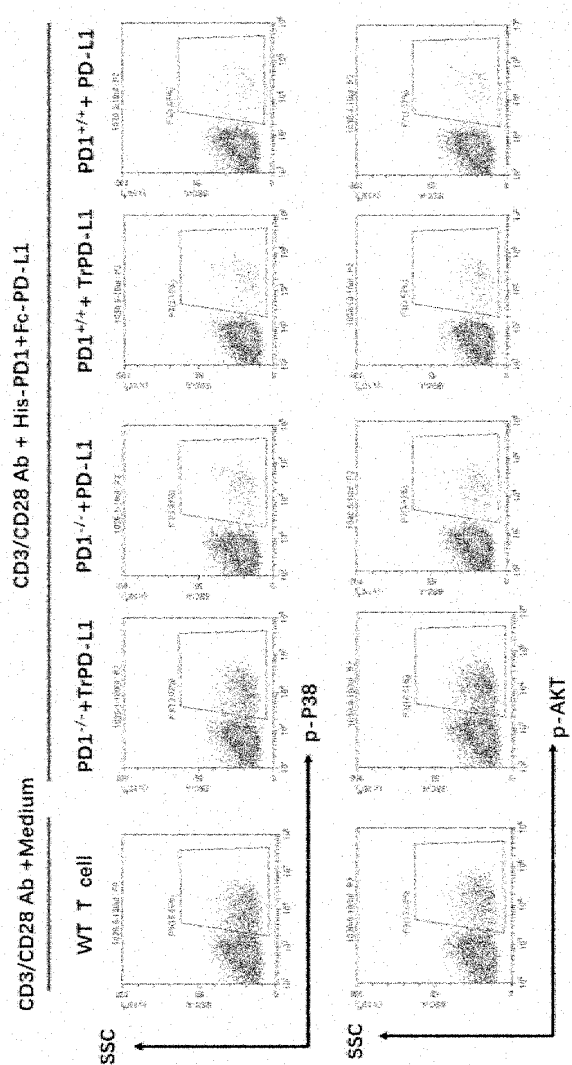


Figure 8

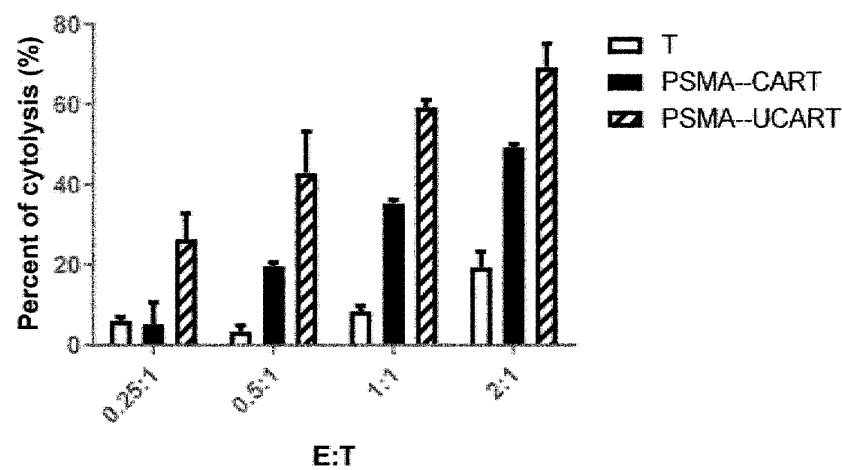


Figure 9A

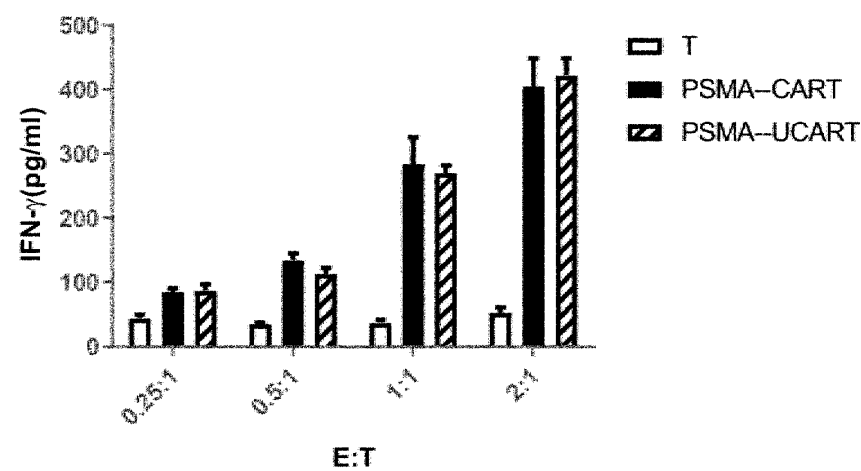


Figure 9B

SEQ ID NO	Description	Sequence
1	PD-L1 intracellular domain	RLRKGRMMDVKKCGIQDTNSKKQSDTHLEET
2	PD-L1 transmembrane domain	THLVILGAILLCLGVALTFIF
3	PD-L1 extracellular domain	FTVTVPKDLYVVEYGSNMTIECKFPVEKQLDLAALIVYWE MEDKNIIQFVHGEEDLKVQHSSYRQRARLLKDQLSLGNA ALQITDVKLQDAGVYRCMISYGGADYKRITVKVNAPYNKI NQRILVDPVTSEHELTCQAEGYPKAEVIWTSSDHQVLS GKTTTTNSKREEKLFNVTSTLRINTTTNEIFYCTFRRLDPE ENHTAELVIPELPLAHPNER
4	PD-L1 signal peptide	RIFAVFIFMTYWHLNA
5	PD-L1 transmembrane domain and intracellular domain	THLVILGAILLCLGVALTFIFRLRKGRMMDVKKCGIQDTNS KKQSDTHLEET
6	conserved sequence in 2A peptides	GDVEXNPGP, X can be any amino acid residue
7	Truncated PD-L1 with extracellular domain and transmembrane domain	FTVTVPKDLYVVEYGSNMTIECKFPVEKQLDLAALIVYWE MEDKNIIQFVHGEEDLKVQHSSYRQRARLLKDQLSLGNA ALQITDVKLQDAGVYRCMISYGGADYKRITVKVNAPYNKI NQRILVDPVTSEHELTCQAEGYPKAEVIWTSSDHQVLS GKTTTTNSKREEKLFNVTSTLRINTTTNEIFYCTFRRLDPE ENHTAELVIPELPLAHPNER
8	Truncated PD-L1 with extracellular domain and transmembrane	RIFAVFIFMTYWHLNAFTVTVPKDLYVVEYGSNMTIECKF PVEKQLDLAALIVYWEMEDKNIIQFVHGEEDLKVQHSSYR QRARLLKDQLSLGNAALQITDVKLQDAGVYRCMISYGGA

Figure 1a

	domain, with signal peptide	DYKRITVKVNAPYNKINQRILVVDPTSEHELTCAEGYP KAEVIWTSSDHQVLSGKTTTTNSKREEKLFNVTSTLRINTT TNEIFYCTFRRLDPEENHTAELVIPELPLAHPPNERHLVIL GAILLCLGVALTFIF
9	F2A	GSGVKQTLNFDLLKLAGDVESNPGP
10	PD-L1 extracellular domain with signal peptide	RIFAVFIFMTYWHLNAFTVTVPKDLYVVEYGSNMTIECKF PVEKQLDLAALIVYWEMEDKNIIQFVHGEEDLKVQHSSYR QRARLLKDQLSLGNAALQITDVKLQDAGVYRCMISYGGA DYKRITVKVNAPYNKINQRILVVDPTSEHELTCAEGYP KAEVIWTSSDHQVLSGKTTTTNSKREEKLFNVTSTLRINTT TNEIFYCTFRRLDPEENHTAELVIPELPLAHPPNER
11	PD-L1 full length without signal peptide	FTVTVPKDLYVVEYGSNMTIECKFPVEKQLDLAALIVYWE MEDKNIIQFVHGEEDLKVQHSSYRQRARLLKDQLSLGNA ALQITDVKLQDAGVYRCMISYGGADYKRITVKVNAPYNKI NQRILVVDPTSEHELTCAEGYPKAEVIWTSSDHQVLS GKTTTTNSKREEKLFNVTSTLRINTTTNEIFYCTFRRLDPE ENHTAELVIPELPLAHPPNERHLVILGAILLCLGVALTFIFR LRKGRMMDVKKCGIQDTNSKKQSDTHLEET
12	PD-L1 full length with signal peptide	MRIFAVFIFMTYWHLNAFTVTVPKDLYVVEYGSNMTIEC KFPVEKQLDLAALIVYWEMEDKNIIQFVHGEEDLKVQHSS YRQRARLLKDQLSLGNAALQITDVKLQDAGVYRCMISYG GADYKRITVKVNAPYNKINQRILVVDPTSEHELTCAEG YPKAEVIWTSSDHQVLSGKTTTTNSKREEKLFNVTSTLR NTTTNEIFYCTFRRLDPEENHTAELVIPELPLAHPPNERH LVILGAILLCLGVALTFIFRLRKGRMMDVKKCGIQDTNSKK QSDTHLEET
13	Nucleic acid encoding full- length PD-L1 with signal peptide	ATGAGGATATTTGCTGTCTTTATATTCATGACCTACTGG CATTTGCTGAACGCATTTACTGTCACGGTCCCAAGGA CCTATATGTGGTAGAGTATGGTAGCAATATGACAATTG AATGCAAATTCAGTAGAAAAACAATTAGACCTGGCT

Figure 10 (Continued)

			GCACTAATTGTCTATTGGGAAATGGAGGATAAGAACAT TATTCAATTTGTGCATGGAGAGGAAGACCTGAAGGTTT AGCATAGTAGCTACAGACAGAGGGCCCCGGCTGTTGAA GGACCAGCTCTCCCTGGGAAATGCTGCACTTCAGATCA CAGATGTGAAATTGCAGGATGCAGGGGTGTACCGCTG CATGATCAGCTATGGTGGTGGCGACTACAAGCGAATTA CTGTGAAAGTCAATGCCCCATACAACAAAATCAACCAA AGAATTTTGGTTGTGGATCCAGTCACCTCTGAACATGA ACTGACATGTCAGGCTGAGGGCTACCCCAAGGCCGAA GTCATCTGGACAAGCAGTGACCATCAAGTCCTGAGTG GTAAGACCACCACCACCAATTCCAAGAGAGAGGAGAA GCTTTTCAATGTGACCAGCACACTGAGAATCAACACAA CAACTAATGAGATTTTCTACTGCACTTTTAGGAGATTAG ATCCTGAGGAAAACCATACAGCTGAATTGGTCATCCA GAACTACCTCTGGCACATCCTCCAAATGAAAGGACTCA CTTGGTAATTCTGGGAGCCATCTTATTATGCCTTGGTG TAGCACTGACATTCATCTTCCGTTTAAGAAAAGGGAGA ATGATGGATGTGAAAAAATGTGGCATCCAAGATACAAA CTCAAAGAAGCAAAGTGATACACATTTGGAGGAGACGT AA
14	Nucleic acid encoding PD- Truncated with L1 extracellular domain and transmembrane domain with signal peptide		AGGATATTTGCTGTCTTTATATTCATGACCTACTGGCAT TTGCTGAACGCATTTACTGTACGGTTCCCAAGGACCT ATATGTGGTAGAGTATGGTAGCAATATGACAATTGAAT GCAAATTCCCAGTAGAAAAACAATTAGACCTGGCTGCA CTAATTGTCTATTGGGAAATGGAGGATAAGAACATTATT CAATTTGTGCATGGAGAGGAAGACCTGAAGGTTTCAAGCA TAGTAGCTACAGACAGAGGGCCCCGGCTGTTGAAGGAC CAGCTCTCCCTGGGAAATGCTGCACTTCAGATCACAGA TGTGAAATTGCAGGATGCAGGGGTGTACCGCTGCATG ATCAGCTATGGTGGTGGCGACTACAAGCGAATTACTGT GAAAGTCAATGCCCCATACAACAAAATCAACCAAAGAA TTTTGGTTGTGGATCCAGTCACCTCTGAACATGAACTG

Figure 10 (Continued)

		ACATGTCAGGCTGAGGGCTACCCCAAGGCCGAAGTCA TCTGGACAAGCAGTGACCATCAAGTCCTGAGTGGTAAG ACCACCACCACCAATTCCAAGAGAGAGGAGAAGCTTTT CAATGTGACCAGCACACTGAGAATCAACACAACAATA ATGAGATTTTCTACTGCACTTTTAGGAGATTAGATCCTG AGGAAAACCATACAGCTGAATTGGTCATCCCAGAACTA CCTCTGGCACATCCTCCAAATGAAAGGACTCACTTGGT AATTCTGGGAGCCATCTTATTATGCCTTGGTGTAGCAC TGACATTCATCTTCTAA
15	Nucleotide sequence encoding P2A	GGAAGCGGAGCTACTAACTTCAGCCTGCTGAAGCAGG CTGGAGACGTGGAGGAGAACCCTGGACCT
16	P2A amino acid sequence	GSGATNFSLLKQAGDVEENPGP
17	P2A fused with Truncated PD- L1 with extracellular domain and transmembrane domain	GSGATNFSLLKQAGDVEENPGPRIFAVFIFMTYWHLNAP TVTVPKDLYVVEYGSNMIECKFPVEKQLDLAALIVYWEM EDKNIIQFVHGEEDLKVQHSSYRQRARLLKDQLSLGNAAL QITDVKLQDAGVYRCMISYGGADYKRITVKVNAPYNKINQ RILVDPVTSEHLCQAEGYPKAEVIWTSSDHQVLGSKT TTNSKREEKLFNVTSTLRINTTTNEIFYCTFRRLDPEENH TAEVIPPLAHPNERTHLVILGAILLCLGVALTFIF
18	Nucleotide sequence encoding SEQ ID NO: 17	GGAAGCGGAGCTACTAACTTCAGCCTGCTGAAGCAGGC TGGAGACGTGGAGGAGAACCCTGGACCTAGGATATTTG CTGTCTTTATATTCATGACCTACTGGCATTGTGCTGAACG CATTTACTGTCACGGTTCCCAAGGACCTATATGTGGTAG AGTATGGTAGCAATATGACAATTGAATGCAAATTCCCA GTAGAAAAACAATTAGACCTGGCTGCACTAATTGTCTAT TGGGAAATGGAGGATAAGAACATTATTCAATTTGTGCA TGGAGAGGAAGACCTGAAGGTTTCAGCATAGTAGCTACA GACAGAGGGCCCGGCTGTTGAAGGACCAGCTCTCCCTG GGAAATGCTGCACTTCAGATCACAGATGTGAAATTGCA GGATGCAGGGGTGTACCGCTGCATGATCAGCTATGGTG

Figure 10 (Continued)

		GTGCCGACTACAAGCGAATTACTGTGAAAGTCAATGCC CCATACAACAAAATCAACCAAAGAATTTTGGTTGTGGA TCCAGTCACCTCTGAACATGAACTGACATGTCAGGCTGA GGGCTACCCCAAGGCCGAAGTCATCTGGACAAGCAGTG ACCATCAAGTCCTGAGTGGTAAGACCACCACCACCAAT TCCAAGAGAGAGGAGAAGCTTTTCAATGTGACCAGCAC ACTGAGAATCAACACAACAATAATGAGATTTTCTACT GCACTTTTAGGAGATTAGATCCTGAGGAAAACCATACA GCTGAATTGGTCATCCAGAATACTCTGGCACATCCT CCAAATGAAAGGACTCACTTGGTAATTCTGGGAGCCAT CTTATTATGCCTTGGTGTAGCACTGACATTCATCTTC
19	CD19 CAR- P2A-TrPD-L1	DIQMTQTTSSLASLGDRVTISCRASQDISKYLNWYQQKP DGTVKLLIYHTSRLHSGVPSRFSGSGSGTDYSLTISNLEQ EDIATYFCQQGNTLPYTFGGGTKLEITGGGSGGGGSGG GGSEVKLQESGPGLVAPSQSLSVTCTVSGVSLPDYGV WIRQPPRKGLEWLGVIWGSETTYNSALKSRLTIKDNSK SQVFLKMNSLQTD DTAIYYCAKHYYYGGSYAMDYWGQG TSVTVSSTTTPAPRPPTPAPTIASQPLSLRPEACRPAAGG AVHTRGLDFACDIYWAPLAGTCGVLLLSLVITLYCKRGRK KLLYIFKQPFMRPVQTTQEEDGCSCRFPEEEEEGGCELRV KFSRSADAPAYKQGQNQLYNELNLGRREEYDVL DKRRG RDP EMGGKPRRKNPQEGLYNELQKDKMAEAYSEIGMKG ERRRGKGHDGLYQGLSTATKDTYDALHMQALPPRGSGA TNFSLLKQAGDVEENPGPRIFAVFIFMTYWHLLNAFTVT PKDLYVVEYGSNMTIECKFPVEKQLDLAALIVYWEMEDKN IIQFVHGEEDLKVQHSSYRQRARLLKDQLSLGNAALQITD VKLQDAGVYRCMISYGGADYKRITVKVNAPYNKINQRILV VDPVTSEHELTCQAEGYPKAEVIWTSSDHQVLSGKTTTT NSKREEKLFNVTSTLRINTTTNEIFYCTFRRLDPEENHTAE LVIPELPLAHPNERTHLVILGAILLCLGVALTFIF
20	Nucleotide sequence encoding SEQ	ATGGCCTTACCAGTGACCGCCTTGCTCCTGCCGCTGG CCTTGCTGCTCCACGCCGCCAGGCCGGACATCCAGAT

Figure 10 (Continued)

	ID NO : 19 (further including signal peptide)	GACACAGACTACATCCTCCCTGTCTGCCTCTCTGGGAG ACAGAGTCACCATCAGTTGCAGGGCAAGTCAGGACATT AGTAAATATTTAAATTGGTATCAGCAGAAACCAGATGGA ACTGTTAAACTCCTGATCTACCATACATCAAGATTACAC TCAGGAGTCCCATCAAGGTTCAAGTGGCAGTGGGTCTG GAACAGATTATTCTCTCACCATTAGCAACCTGGAGCAA GAAGATATTGCCACTTACTTTTGCCAACAGGGTAATAC GCTTCCGTACACGTTTCGGAGGGGGGACCAAGCTGGAG ATCACAGGTGGCGGTGGCTCGGGCGGTGGTGGGTCTG GGTGGCGGCGGATCTGAGGTGAACTGCAGGAGTCAG GACCTGGCCTGGTGGCGCCCTCACAGAGCCTGTCCGT CACATGCACTGTCTCAGGGGTCTCATTACCCGACTATG GTGTAAGCTGGATTGCGCCAGCCTCCACGAAAGGTCT GGAGTGGCTGGGAGTAATATGGGGTAGTGAAACCACA TACTATAATTGAGCTCTCAAATCCAGACTGACCATCATC AAGGACAACTCCAAGAGCCAAGTTTTCTTAAAAATGAA CAGTCTGCAAAGTATGACACAGCCATTACTACTGTG CCAAACATTATTACTACGGTGGTAGCTATGCTATGGAC TACTGGGGCCAAGGAACCTCAGTCACCGTCTCCTCAA CCACGACGCCAGCGCCGCGACCACCAACACCGGCGC CCACCATCGCGTCGCAGCCCCTGTCCCTGCGCCCAGA GGCGTGCCGGCCAGCGGCGGGGGGCGCAGTGACACAC GAGGGGGCTGGACTTCGCCTGTGATATCTACATCTGG GCGCCCTTGGCCGGGACTTGTGGGGTCCTTCTCCTGT CACTGGTTATCACCCCTTACTGCAAACGGGGCAGAAAG AACTCCTGTATATATTCAAACAACCATTATGAGACCA GTACAACTACTCAAGAGGAAGATGGCTGTAGCTGCC GATTTCCAGAAGAAGAAGAAGGAGGATGTGAACTGAG AGTGAAGTTCAGCAGGAGCGCAGACGCCCCCGCGTAC AAGCAGGGCCAGAACCAGCTCTATAACGAGCTCAATCT AGGACGAAGAGAGGAGTACGATGTTTTGGACAAGAGA CGTGGCCGGGACCCTGAGATGGGGGGAAAGCCGAGA AGGAAGAACCCTCAGGAAGGCCTGTACAATGAACTGC
--	--	---

Figure 10 (Continued)

		AGAAAGATAAGATGGCGGAGGCCTACAGTGAGATTGG GATGAAAGGCGAGCGCCGGAGGGGCAAGGGGCACGA TGGCCTTTACCAGGGTCTCAGTACAGCCACCAAGGAC ACCTACGACGCCCTTCACATGCAGGCCCTGCCCCCTC GCGGAAGCGGAGCTACTAACTTCAGCCTGCTGAAGCA GGCTGGAGACGTGGAGGAGAACCCTGGACCTAGGATA TTTGCTGTCTTTATATTCATGACCTACTGGCATTGCTG AACGCATTTACTGTCACGGTTCCCAAGGACCTATATGT GGTAGAGTATGGTAGCAATATGACAATTGAATGCAAAT TCCCAGTAGAAAAACAATTAGACCTGGCTGCACTAATT GTCTATTGGGAAATGGAGGATAAGAACATTATTCAATTT GTGCATGGAGAGGAAGACCTGAAGGTTGAGCATAGTA GCTACAGACAGAGGGCCCGGCTGTTGAAGGACCAGCT CTCCCTGGGAAATGCTGCACTTCAGATCACAGATGTGA AATTGCAGGATGCAGGGGTGTACCGCTGCATGATCAG CTATGGTGGTGCCGACTACAAGCGAATTACTGTGAAAG TCAATGCCCCATACAACAAAATCAACCAAGAATTTTGG TTGTGGATCCAGTCACCTCTGAACATGAACTGACATGT CAGGCTGAGGGCTACCCCAAGGCCGAAGTCATCTGGA CAAGCAGTGACCATCAAGTCCTGAGTGGTAAGACCAC CACCACCAATTCCAAGAGAGAGGAGAAGCTTTTCAATG TGACCAGCACACTGAGAATCAACACAACAATAATGAG ATTTTCTACTGCACTTTTAGGAGATTAGATCCTGAGGAA AACCATACAGCTGAATTGGTCATCCCAGAACTACCTCT GGCACATCCTCCAAATGAAAGGACTCACTTGGTAATTC TGGGAGCCATCTTATTATGCCTTGGTGTAGCACTGACA TTCATCTTCTAA
21	Signal peptide in CD19 CAR- P2A-TrPD-L1 or PSMA CAR- P2A-TrPD-L1	MALPVTALLLPLALLLHAARP

Figure 10 (Continued)

22	Light chain variable region of antibody FMC63	DIQMTQTSSLSASLGDRVTISCRASQDISKYLNWYQQKP DGTVKLLIYHTSRLHSGVPSRFSGSGSGTDYSLTISNLEQ EDIATYFCQQGNTLPYTFGGGTKLEIT
23	Linker in scFv	GGGSGGGSGGGSGGGS
24	Heavy chain variable region of antibody FMC63	EVKLQESGPGLVAPSQSLSVTCTVSGVSLPDYGVSWIRQ PPRKGLEWLGVWGSSETTYNSALKSRLTIKDNSKSQVF LKMNSLQTDDTAIYYCAKHYYYGGSYAMDYWGQGTSTV VSS
25	Hinge region as used in CD19 CAR	TTTPAPRPPTPAPTIASQPLSLRPEACRPAAGGAVHTRGL DFACD
26	CD8 α transmembrane domain (TM) as used in CD19 CAR	IYIWAPLAGTCGVLLSLVITLYC
27	4-1BB costimulatory signal transduction region as used in CD19 CAR	KRGRKKLLYIFKQPFMRPVQTTQEEDGCSCRFPEEEEGG CEL
28	CD3 ζ signal transduction domain as used in CD19 CAR)	RVKFSRSADAPAYKQGQNQLYNELNLGRREEYDVLDKR RGRDPEMGGKPRRKNPQEGLYNELQKDKMAEAYSEIGM KGERRRGKGHDGLYQGLSTATKDTYDALHMQALPPR
63	The 1000 bp sequence upstream of HLA-A	Cacttagaagtgatacttcctaaaaacaggcagtgcatgagcactagtgaggg gcattgtgactgcctgaacagttgcaactttgaggtgaataaagcctgtaatggct tctggtgcaacatataggaacacagtggtactttgtattgaggagatgtcgtgga ctcacacagaaactcagagctaaggaatgatggcaaatttaaagtaagacaag caggagtcacagatacattgtctgggaaagtgcaacttagtagctttgtgagtcct gttgaatgctttggacacattatacatlaaggggccaaagtcacatttttacctat tagattcctgatcattcaggggtaccaagattctgctaccactgtagttaataaac aaagagcaaattggtctctattctgtctcatgcactcaggcacaactttccggatta

Figure 10 (Continued)

		aaaacaaaaacaacaacaaaaatctacacctccattcccagatcaagctt actctctggcaccaaactccatggggatgttttctctagaagagtcagggtggac aggtaaggagtgaggagtcagggagtcagggtcaggagacagagataatgggat gaaaagtgaaggagagggacggggcccatgacgaggggttctccctgtttctc agacagctcctgggccaagactcaggagacattgagacagagcgcttcga caggagcagaggggtcagggcgaagtcaggggccccaggcggtggctctca gagtctcaggccccgaaggcgggtgatggattggggagtcaggccttggggatt cccaactccgagtttcttttccctctccaacctacgtagggtcctcatcctgg atactcacgacgcggaccagttctcactccattgggtgctgggttccagagaa gccaatcagtgctgctcggtcgctgttctaaagccgcacgcacccaccggga ctc
64	The 1000 bp sequence downstream of HLA-A	Ccttcagagtcacgtgttctgtgctgattgtgcagggaggagagtagatg gggctgtgccagtttctgtctggccaccatgggcttatgtggtcacagctcacct gggcatcttctgctccttgccttggcccttcagtagaacctgtccaccaag acctgtgatcacaggagtggtgatgcacctagggtggctccctgcatacaaatctc ctgtggtatcaagagacaaatttcagacctgtccagggtctgccttccctcagg gcttttcttaatggtatttctgatttttccaatcttttaaagggaaccagatgtgac atttgagagaggaggggtcccatagtttctcatcatggttaactttctgttgaact cctcttgcctcctactcttctcctgctctgagttgtagtaacctagtgctggctcc aatccaaactcatagattataaagcagagtctaatttagattcatatgtggtggaa aattgtaccataaggctagggtattgttctgaagagaaatatgtgttgtgctg aagtgtgcaggaggggtggtgtggaggaggaggacatacaagcagccctg gtgagaaaagcactggcgcatggatgtccacgtgaacttatgttcttagctgcc aaaaaacagcatttgcctgtggctacattaataaagatatgggtttagaatagg gaggtgctctacagtgatcattcattcaactgacatttgttctgctaggatga ctgcttttgcattttagaaagcatccttaaagtaaaaacagaaaaatgtctggggta tggtgatacgttctagatgcaggctgtccaaccgcggtcgtgggtgcatgt ggcccaggacaatttgaatgtgaggacttttcttctgtgtggaacctgagtc ctggagtgagtgacccacctcc
65	The 1000 bp sequence	Aataccaagtgttcagataaaatacgcacactgcttgatgtgcagagttcagga aaacaggcagtgcttcagcgtcggtaagagcattgggactgcatggagcactc gcaactttgaggtgatgactacaggctcccgttgcaatagacagtaacaaacc

Figure 10 (Continued)

	upstream HLA-B	of	ctgctctttatattcaggagatgttctggactcacacagggaaactcaggggtggg gaatgaagataattttaaatgcaacaacccagagttacagatccacagtctggg aaagtaaaacttaggagctttagaggttaattgtaatgctgtttgacacaggtcttt tacaatttgaattctaattcattcagggtattaccaatatgtgtctacctactgtattaa caaacaaaaaggaaactgggtctctatgagaatccctatgcgggtgccttcagaga aaacttcaccagggttaagagagaaaacccctgtctctacacctccattcccaggg cgagctcactctctggcatcaagttccccgtgtcagtttcctacacaagagtcc aagaggagaggttaaggagtgggaggcagggagtcaggttcagggacaggg attccaggacgagaagtgaaggggaaggggctgggcgcagcctgggggtctc tccctggtttccacagacagatccttgtccaggactcaggcagacagtgtagaa agaggcttggttaggagaagagggtcaggacgaagtccagggtccggac ggggctctcagggctcaggctccgagggccgcgtctgcaatggggaggcgca gcgtggggattccccactccccctgagtttcaacttctctcccaactgtgtcgggtcc ttctccaggatactcgtgacgcgtccccactccccactccattgggtattggatat ctagagaagccaatcagcgtcgccggtccagttctaagttccccacgcac ccacccggactc
66	The 1000 bp sequence downstream of HLA-B		Gaatctgcatgttcgtctgtcagtcgttgcagggtgggggtgaggagaaggctgt ggggggccgagtggtgagggtggtgcccatttggtgttgagtcacatcaggg ctttatgtggttagtctcagctgggtcacctcactgtccattgtcctgtccctcag tggaactgtccagtgaggagctgtgaccacagagggtcacacatgcgccagg gcggccctgcacacgggggtctctgtgcattctgagacaaatttcagagccatt cacctcctgctctgtcttagagctcctttctgctctgctcttctgcctctcctctgcc ctggttctagtatcttggtgctgaatccaatccaactcatgaatctgtaaagcag agtctaatttagacttacattgtctgtgaaattggaccgtcatcaaggactgttctt cctgaagagagaacctgattgtgtgctgcagtgctggtgggcagggggtgcggg gaggggggtgctgtcgaaagagggtggggaggaggggcacacaagcagca ctgctgagaaaaacataggcgccctctatctcagtgtaggggtcctgtgtgta gtgccacaaaacagcacttgccctgaggctatgtaataaagatactgcctca aaataggagggtgtctacagtgatcattcactcaactgaccttgcattggccag acataggacagaatggttctgcactcgggaacaccactgaagtaaaagaaaa atctctggcctttgtagcatatgttccagtggaagaggcagacgatagatacatt ataaccagagtaaggaaggaaagtgtctagaagggtgtaagtgtgtgaggca

Figure 10 (Continued)

		ggatgatccaggatgtgggcagtggggacaggggaaggtggctgtgtgctgggta gtcagtggtgcctgttgcaaaggtgacttttgaggaaagatttgagaga
67	genomic region of B2M	ATGTCTCGCTCCGTGGCCTTAGCTGTGCTCGCGCTACT CTCTCTTTCTGGCCTGGAGGCTATCCAGCGTACTCCAA AGATTCAGGTTTACTCACGTCATCCAGCAGAGAATGGA AAGTCAAATTCCTGAATTGCTATGTGTCTGGGTTTCAT CCATCCGACATTGAAGTTGACTTACTGAAGAATGGAGA GAGAATTGAAAAAGTGGAGCATTACAGACTTGTCTTTCA GCAAGGACTGGTCTTTCTATCTCTTGTACTACACTGAAT TCACCCCCACTGAAAAAGATGAGTATGCCTGCCGTGTG AACCATGTGACTTTGTACAGCCCAAGATAGTTAAGTG GGATCGAGACATGTAA
68	genomic region of CIITA	ATGCGTTGCCTGGCTCCACGCCCTGCTGGGTCCTACCT GTCAGAGCCCCAAGGCAGCTCACAGTGTGCCACCATG GAGTTGGGGCCCCTAGAAGGTGGCTACCTGGAGCTTC TTAACAGCGATGCTGACCCCCTGTGCCTCTACCACTTC TATGACCAGATGGACCTGGCTGGAGAAGAAGAGATTG AGCTCTACTCAGAACCCGACACAGACACCATCAACTGC GACCAGTTCAGCAGGCTGTTGTGTGACATGGAAGGTG ATGAAGAGACCAGGGAGGCTTATGCCAATATCGCGGA ACTGGACCAGTATGTCTTCCAGGACTCCCAGCTGGAG GGCCTGAGCAAGGACATTTTCAAGCACATAGGACCAG ATGAAGTGATCGGTGAGAGTATGGAGATGCCAGCAGA AGTTGGGCAGAAAAGTCAGAAAAGACCCTTCCCAGAG GAGCTTCCGGCAGACCTGAAGCACTGGAAGCCAGCTG AGCCCCCACTGTGGTGACTGGCAGTCTCCTAGTGGG ACCAGTGAGCGACTGCTCCACCCTGCCCTGCCTGCCA CTGCCTGCGCTGTTCAACCAGGAGCCAGCCTCCGGCC AGATGCGCCTGGAGAAAACCGACCAGATTCCCATGCC TTTCTCCAGTTCCTCGTTGAGCTGCCTGAATCTCCCTG AGGGACCCATCCAGTTTGTCCCCACCATCTCCACTCTG CCCCATGGGCTCTGGCAAATCTCTGAGGCTGGAACAG

Figure 10 (Continued)

	GGGTCTCCAGTATATTCATCTACCATGGTGAGGTGCCC CAGGCCAGCCAAGTACCCCCTCCCAGTGGATTCACTG TCCACGGCCTCCCAACATCTCCAGACCGGCCAGGCTC CACCAGCCCCCTTCGCTCCATCAGCCACTGACCTGCCC AGCATGCCTGAACCTGCCCTGACCTCCCGAGCAAACA TGACAGAGCACAAGACGTCCCCCACC CAATGCCCGGC AGCTGGAGAGGTCTCCAACAAGCTTCCAAAATGGCCT GAGCCGGTGGAGCAGTTCTACCGCTCACTGCAGGACA CGTATGGTGCCGAGCCCGCAGGCCCGGATGGCATCCT AGTGGAGGTGGATCTGGTGCAGGCCAGGCTGGAGAG GAGCAGCAGCAAGAGCCTGGAGCGGGA ACTGGCCAC CCCGGACTGGGCAGAACGGCAGCTGGCCCAAGGAGG CCTGGCTGAGGTGCTGTTGGCTGCCAAGGAGCACCGG CGGCCGCGTGAGACACGAGTGATTGCTGTGCTGGGCA AAGCTGGTCAGGGCAAGAGCTATTGGGCTGGGGCAGT GAGCCGGGCCTGGGCTTGTGGCCGGCTTCCCCAGTAC GACTTTGTCTTCTCTGTCCCCTGCCATTGCTTGAACCG TCCGGGGGATGCCTATGGCCTGCAGGATCTGCTCTTC TCCCTGGGCCCACAGCCACTCGTGGCGGCCGATGAG GTTTTAGCCACATCTTGAAGAGACCTGACCGCGTTCT GCTCATCCTAGACGGCTTCGAGGAGCTGGAAGCGCAA GATGGCTTCTGCACAGCACGTGCGGACCGGCACCGG CGGAGCCCTGCTCCCTCCGGGGGCTGCTGGCCGGCC TTTTCCAGAAGAAGCTGCTCCGAGGTTGCACCCTCCTC CTCACAGCCCGGCCCGGGGCGCCTGGTCCAGAGC CTGAGCAAGGCCGACGCCCTATTTGAGCTGTCCGGCT TCTCCATGGAGCAGGCCCAGGCATACGTGATGCGCTA CTTTGAGAGCTCAGGGATGACAGAGCACCAAGACAGA GCCCTGACGCTCCTCCGGGACCGGCCACTTCTTCTCA GTCACAGCCACAGCCCTACTTTGTGCCGGGCAGTGTG CCAGCTCTCAGAGGCCCTGCTGGAGCTTGGGGAGGAC GCCAAGCTGCCCTCCACGCTCACGGGACTCTATGTGCG GCCTGCTGGGCCGTGCAGCCCTCGACAGCCCCCCCCG
--	---

Figure 10 (Continued)

	GGGCCCTGGCAGAGCTGGCCAAGCTGGCCTGGGAGC TGGGCCGCAGACATCAAAGTACCCTACAGGAGGACCA GTTCCCATCCGCAGACGTGAGGACCTGGGCGATGGCC AAAGGCTTAGTCCAACACCCACCGCGGGCCGCAGAGT CCGAGCTGGCCTTCCCCAGCTTCCTCCTGCAATGCTTC CTGGGGGGCCCTGTGGCTGGCTCTGAGTGGCGAAATCA AGGACAAGGAGCTCCCGCAGTACCTAGCATTGACCCC AAGGAAGAAGAGGCCCTATGACAACCTGGCTGGAGGGC GTGCCACGCTTTCTGGCTGGGCTGATCTTCCAGCCTC CCGCCCCGCTGCCTGGGAGCCCTACTCGGGCCATCGG CGGCTGCCTCGGTGGACAGGAAGCAGAAGGTGCTTGC GAGGTACCTGAAGCGGCTGCAGCCGGGGACACTGCG GGCGCGGCAGCTGCTGGAGCTGCTGCACTGCGCCCA CGAGGCCGAGGAGGCTGGAATTTGGCAGCACGTGGTA CAGGAGCTCCCCGGCCGCCTCTCTTTTCTGGGCACCC GCCTCACGCCTCCTGATGCACATGTA CTGGGCAAGGC CTTGGAGGCGGCGGGCCAAGACTTCTCCCTGGACCTC CGCAGCACTGGCATTGCCCCCTCTGGATTGGGGAGCC TCGTGGGACTCAGCTGTGTCACCCGTTTCAGGGCTGC CTTGAGCGACACGGTGGCGCTGTGGGAGTCCCTGCAG CAGCATGGGGAGACCAAGCTACTTCAGGCAGCAGAGG AGAAGTTCACCATCGAGCCTTTCAAAGCCAAGTCCCTG AAGGATGTGGAAGACCTGGGAAAGCTTGTGCAGACTC AGAGGACGAGAAGTTCCTCGGAAGACACAGCTGGGGA GCTCCCTGCTGTTTCGGGACCTAAAGAACTGGAGTTTG CGCTGGGGCCCTGTCTCAGGCCCCCAGGCTTTCCCCAA ACTGGTGC GGATCCTCACGGCCTTTTCTCCCTGCAG CATCTGGACCTGGATGCGCTGAGTGAGAACAAGATCG GGGACGAGGGTGTCTCGCAGCTCTCAGCCACCTTCCC CCAGCTGAAGTCCTTGGAACCCTCAATCTGTCCCAGA ACAACATCACTGACCTGGGTGCCTACAACTCGCCGA GGCCCTGCCTTCGCTCGCTGCATCCCTGCTCAGGCTA AGCTTGTACAATAACTGCATCTGCGACGTGGGAGCCG
--	--

Figure 10 (Continued)

		AGAGCTTGGCTCGTGTGCTTCCGGACATGGTGTCCCT CCGGGTGATGGACGTCCAGTACAACAAGTTCACGGCT GCCGGGGCCCAGCAGCTCGCTGCCAGCCTTCGGAGG TGTCTCATGTGGAGACGCTGGCGATGTGGACGCCCA CCATCCCATTCAAGTGTCCAGGAACACCTGCAACAACAG GATTCACGGATCAGCCTGAGATGA
69	genomic region of PD-1	GCTCACCTCCGCCTGAGCAGTGGAGAAGGCGGCACTC TGGTGGGGCTGCTCCAGGCATGCAGATCCCACAGGCG CCCTGGCCAGTCGTCTGGGCGGTGCTACAACCTGGGCT GGCGGCCAGGATGGTTCTTAGACTCCCCAGACAGGCC CTGGAACCCCCCACCTTCTCCCCAGCCCTGCTCGTG GTGACCGAAGGGGACAACGCCACCTTCACCTGCAGCT TCTCCAACACATCGGAGAGCTTCGTGCTAACTGGTAC CGCATGAGCCCCAGCAACCAGACGGACAAGCTGGCCG CCTTCCCCGAGGACCGCAGCCAGCCGGCCAGGACT GCCGCTTCCGTGTACACAACCTGCCAACGGGCGTGA CTTCCACATGAGCGTGGTCAGGGCCCCGGCGCAATGAC AGCGGCACCTACCTCTGTGGGGCCATCTCCCTGGCCC CCAAGGCGCAGATCAAAGAGAGCCTGCGGGCAGAGCT CAGGGTGACAGAGAGAAGGGCAGAAGTGCCACAGC CCACCCCAGCCCCTCACCCAGGCCAGCCGGCCAGTTC CAAACCCTGGTGGTGGTGTGCTGGGCGGCCTGCTGG GCAGCCTGGTGTGCTAGTCTGGGTCTGGCCGTGCTAT CTGCTCCCGGGCCGCACGAGGGACAATAGGAGCCAG GCGCACCGGCCAGCCCCTGAAGGAGGACCCCTCAGC CGTGCCTGTGTTCTCTGTGGACTATGGGGAGCTGGATT TCCAGTGGCGAGAGAAGACCCCGGAGCCCCCGTGC CCTGTGTCCCTGAGCAGACGGAGTATGCCACCATGT CTTTCCTAGCGGAATGGGCACCTCATCCCCGCCCGC AGGGGCTCAGCTGACGGCCCTCGGAGTGCCAGCCA CTGAGGCCTGAGGATGGACACTGCTCTTGGCCCTCT GACCGGCTTCCTTGGCCACCAGTGTCTGCAGACCCT

Figure 10 (Continued)

	CCACCATGAGCCCGGGTCAGCGCATTTCTCAGGAGA AGCAGGCAGGGTGCAGGCCATTGCAGGCCGTCCAGG GGCTGAGCTGCCTGGGGGCGACCGGGGCTCCAGCCT GCACCTGCACCAGGCACAGCCCCACCACAGGACTCAT GTCTCAATGCCCACAGTGAGCCCAGGCAGCAGGTGTC ACCGTCCCCTACAGGGAGGGCCAGATGCAGTCACTGC TTCAGGTCCTGCCAGCACAGAGCTGCCTGCGTCCAGC TCCCTGAATCTCTGCTGCTGCTGCTGCTGCTGCTG CTGCCTGCGGCCCGGGGCTGAAGGCGCCGTGGCCCT GCCTGACGCCCCGGAGCCTCCTGCCTGAACTTGGGGG CTGGTTGGAGATGGCCTTGGAGCAGCCAAGGTGCCCC TGGCAGTGGCATCCCGAAACGCCCTGGACGCAGGGC CCAAGACTGGGCACAGGAGTGGGAGGTACATGGGGCT GGGACTCCCCAGGAGTTATCTGCTCCCTGCAGGCCT AGAGAAGTTTCAGGGAAGGTCAGAAGAGCTCCTGGCT GTGGTGGGCAGGGCAGGAAACCCCTCCACCTTTACAC ATGCCCAGGCAGCACCTCAGGCCCTTTGTGGGGCAGG GAAGCTGAGGCAGTAAGCGGGCAGGCAGAGCTGGAG GCCTTTCAGGCCCAGCCAGCACTCTGGCCTCCTGCCG CCGCATTCCACCCCAGCCCCTCACACCACTCGGGAGA GGGACATCCTACGGTCCCAAGGTCAGGAGGGCAGGG CTGGGGTTGACTCAGGCCCCTCCCAGCTGTGGCCACC TGGGTGTTGGGAGGGCAGAAGTGCAGGCACCTAGGG CCCCCATGTGCCACCCCTGGGAGCTCTCCTTGGAAC CCATTCCTGAAATTATTTAAAGGGGTTGGCCGGGCTCC CACCAGGGCCTGGGTGGGAAGGTACAGGCGTTCCCC CGGGGCCTAGTACCCCCGCCGTGGCCTATCCACTCCT CACATCCACACACTGCACCCCCACTCCTGGGGCAGGG CCACCAGCATCCAGGCGGCCAGCAGGCACCTGAGTG GCTGGGACAAGGGATCCCCCTTCCCTGTGGTTCTATTA TATTATAATTATAATTAAATATGAGAGCATGCTAA
--	---

Figure 10 (Continued)

70	genomic region of TRAC	ATATCCAGAACCCTGACCCTGCCGTGTACCAGCTGAGA GACTCTAAATCCAGTGACAAGTCTGTCTGCCTATTAC CGATTTTGATTCTCAAACAAATGTGTCACAAAGTAAGGA TTCTGATGTGTATATCACAGACAAAAGTGTGCTAGACAT GAGGTCTATGGACTTCAAGAGCAACAGTGCTGTGGCC TGGAGCAACAAATCTGACTTTGCATGTGCAAACGCCTT CAACAACAGCATTATTCCAGAAGACACCTTCTTCCCCA GCCCAGAAAGTTCCTGTGATGTCAAGCTGGTCGAGAAA AGCTTTGAAACAGATACGAACCTAACTTTCAAACCTG TCAGTGATTGGGTTCGAATCCTCCTCCTGAAAGTGGC CGGGTTTAATCTGCTCATGACGCTGCGGCTGTGGTCC AGCTGA
71	T2A peptide	GSGEGRGSLLTCDVEENPGP
72	E2A peptide	GSGQCTNYALLKLAGDVESNPGP
81	anti-PSMA antibody J591, light chain variable region	DIVMTQSPSSLSASVGDRVITCKASQDCGTAVDWYQQK PGKAPKLLIYWASTRHTGVPDRFTGSGSGTDFTLTISLQ PEDFADYFCQQYNSYPLTFGGGTKLEIKT
82	anti-PSMA antibody J591, heavy chain variable region	EVQLVQSGAEVKKPGASVKISCKTSGYTFTEYTIHWVKQA SGKGLEWIGNINPNNGGTTYNQKFEDRATLTVDKSTSTA YMEISSLRSEDAVYYCAAGWNFDYWGQGTTVTVSS
83	Fusion protein PSMA CAR-P2A-TrPD-L1	DIVMTQSPSSLSASVGDRVITCKASQDCGTAVDWYQQK PGKAPKLLIYWASTRHTGVPDRFTGSGSGTDFTLTISLQ PEDFADYFCQQYNSYPLTFGGGTKLEIKTGGGGSGGGG SGGGGEVQLVQSGAEVKKPGASVKISCKTSGYTFTEYTI HWVKQASGKGLEWIGNINPNNGGTTYNQKFEDRATLTVD KSTSTAYMEISSLRSEDAVYYCAAGWNFDYWGQGTTV TVSSTTPAPRPPTPAPTIASQPLSLRPEACRPAAGGAVH

Figure 10 (Continued)

		TRGLDFACDIYWAPLAGTCGVLLLSLVITLYCKRGRKKLL YIFKQPFMRPVQTTQEEDGCSCRFPEEEEGGCELRVKFS RSADAPAYKQGQNQLYNELNLGRREEYDVLDKRRGRDP EMGGKPRRKNPQEGLYNELQKDKMAEAYSEIGMKGERR RGKGHDGLYQGLSTATKDTYDALHMQALPPRGSGATNF SLLKQAGDVEENPGPRIFAVFIFMTYWHLNNAFTVTVPKD LYVVEYGSNMTIECKFPVEKQLDLAALIVYWEMEDKNIIQF VHGEEDLKVQHSSYRQRARLLKDQLSLGNAALQITDVKL QDAGVYRCMISYGGADYKRITVKVNAPYNKINQRILVDP VTSEHELTCQAEGYPKAEVIWTSSDHQVLSGKTTTNSK REEKLFNVTSTLRINTTTNEIFYCTFRRLDPEENHTAELVIP ELPLAHPNERTHLVILGAILLCLGVALTFIF
84	Polynucleotide encoding fusion protein PSMA CAR-P2A-TrPD- L1 (further including signal peptide)	atggccttaccagtgaccgccttgctcctgccgctggccttgctgctccacgccgc caggccgGACATCGTGATGACCCAGTCCCCCTCCTCCCT GTCTGCCTCCGTGGGCGACAGAGTGACCATCACATGC AAGGCCTCCCAGGATTGTGGCACCGCCGTGGACTGGT ATCAGCAGAAGCCTGGCAAGGCCCTAAGCTGCTGAT CTACTGGGCCTCCACCAGACACACCGGCGTGCCTGAC AGATTCACCGGCTCCGGCTCTGGCACCGACTTCACCC TGACCATCTCCAGCCTGCAGCCTGAGGACTTCGCCGA CTACTTCTGCCAGCAGTACAACCTCCTACCCTCTGACCT TCGGCGGAGGCACCAAGCTGGAAATCAAAacagggtggcgg ggctcgggcggtggtgggtcgggtggcggcggaGAAGTGCAGCTGGT GCAGTCTGGCGCCGAAGTGAAGAAACCTGGCGCCTCC GTGAAGATCTCCTGCAAGACCTCCGGCTACACCTTCAC CGAGTACACCATCCACTGGGTGAAACAGGCCTCCGGC AAGGGCCTGGAATGGATCGGCAACATCAACCCTAACA ACGGCGGCACCACCTACAACCAGAAGTTCGAGGACCG GGCCACCCTGACCGTGGACAAGTCCACCTCCACCGCC TACATGGAAGTGTCTCCTCCCTGCGGTCTGAGGACACCG CCGTGTACTACTGCGCCGCTGGCTGGAACCTCGACTA CTGGGGCCAGGGCACCACAGTGACAGTCTCGAGCacca

Figure 10 (Continued)

	cgacgccagcgccgcgaccaccaacaccggcgccaccatcgcgtcgcagc ccctgtccctgcgcccagaggcgtgccggccagcgcgggggcgagtgca cacgagggggctggacttcgcctgtgatatctacatctggcgccctggccggg actgtggggctctctcctgtcactgggtatcaccccttactgcaaacggggcaga aagaaactcctgtatatattcaaacaaccatttatgagaccagtacaaactactca agaggaagatggctgtagctgccgattccagaagaagaaggaggatgt gaactgagagtgaagttcagcaggagcgagacgccccgcgtacaagcag ggccagaaccagctctataacgagctcaatctaggacgaagagaggagtacg atgtttggacaagagacgtggccgggaccctgagatgggggaaagccgag aaggaagaaccctcaggaaggcctgtacaatgaactgcagaaagataagatg gaggaggcctacagtgagattgggatgaaaggcgagcgccggaggggcaag gggcacgatggccttaccaggggtctcagtacagccaccaaggacacctacga cgcccttcacatgcaggccctgccccctgcGGAAGCGGAGCTACTA ACTTCAGCCTGCTGAAGCAGGCTGGAGACGTGGAGGA GAACCCTGGACCTAGGATATTTGCTGTCTTTATATTCAT GACCTACTGGCATTGCTGAACGCATTTACTGTCACGG TTCCAAGGACCTATATGTGGTAGAGTATGGTAGCAAT ATGACAATTGAATGCAAATTCAGTAGAAAAACAATTA GACCTGGCTGCACTAATTGTCTATTGGGAAATGGAGGA TAAGAACATTATTCAATTTGTGCATGGAGAGGAAGACC TGAAGGTTTCAGCATAGTAGCTACAGACAGAGGGCCCG GCTGTTGAAGGACCAGCTCTCCCTGGGAAATGCTGCA CTTCAGATCACAGATGTGAAATTGCAGGATGCAGGGGT GTACCGCTGCATGATCAGCTATGGTGGTGCCGACTAC AAGCGAATTACTGTGAAAGTCAATGCCCCATACAACAA AATCAACCAAAGAATTTTGGTTGTGGATCCAGTCACCT CTGAACATGAACTGACATGTCAGGCTGAGGGCTACCC CAAGGCCGAAGTCATCTGGACAAGCAGTGACCATCAA GTCCTGAGTGGTAAGACCACCACCACCAATTCCAAGAG AGAGGAGAAGCTTTTCAATGTGACCAGCACACTGAGAA TCAACACAACAATAATGAGATTTTCTACTGCACTTTTA GGAGATTAGATCCTGAGGAAAACCATACAGCTGAATTG GTCATCCCGAAGTACCTCTGGCACATCCTCCAAATGA
--	---

Figure 10 (Continued)

		AAGGACTCACTTGGTAATTCTGGGAGCCATCTTATTAT GCCTTGGTGTAGCACTGACATTCATCTTCTAA
85	B2M sgRNA encoding sequence	GAGTAGCGCGAGCACAGCTA
86	Anti-CD19 CAR	DIQMTQTTSSLSASLGDRVTISCRASQDISKYLNWYQQKP DGTVKLLIYHTSRLHSGVPSRFSGSGSGTDYSLTISNLEQ EDIATYFCQQGNTLPYTFGGGKLEITGGGSGGGGSGG GGSEVKLQESGPGLVAPSQSLSVTCTVSGVSLPDYGV WIRQPPRKGLEWLGVIWGSETTYNSALKSRLTIKDNSK SQVFLKMNSLQDDTAIYYCAKHYYYGGSYAMDYWGQG TSVTVSSTTTPAPRPPTPAPTIASQPLSLRPEACRPAAGG AVHTRGLDFACDIYWAPLAGTCGVLLLSLVITLYCKRGRK KLLYIFKQPFMRPVQTTQEEDGCSCRFPEEEEGGCELRV KFSRSADAPAYKQGQNQLYNELNLGRREEYDVLDKRRG RDPGEMGGKPRRKNPQEGLYNELQKDKMAEAYSEIGMKG ERRRGKGGHDGLYQGLSTATKDTYDALHMQALPPR
87	Anti-PSMA CAR	DIVMTQSPSSLSASVGDRVTITCKASQDCGTAVDWYQQK PGKAPKLLIYWASTRHTGVPDRFTGSGSGTDFTLTISLQ PEDFADYFCQQYNSYPLTFGGGKLEIKTGGGSGGGG SGGGGEVQLVQSGAEVKKPGASVKISCKTSGYTFTEYTI HWVKQASGKGLEWIGNINPNNGGTTYNQKFEDRATLTVD KSTSTAYMELSSLRSEDTAVYYCAAGWNFDYWGQGTTV TVSSTTTPAPRPPTPAPTIASQPLSLRPEACRPAAGGAVH TRGLDFACDIYWAPLAGTCGVLLLSLVITLYCKRGRKKLL YIFKQPFMRPVQTTQEEDGCSCRFPEEEEGGCELRVKFS RSADAPAYKQGQNQLYNELNLGRREEYDVLDKRRGRDP EMGGKPRRKNPQEGLYNELQKDKMAEAYSEIGMKGERR RGKGGHDGLYQGLSTATKDTYDALHMQALPPR

Figure 10 (Continued)