

Figure 1A

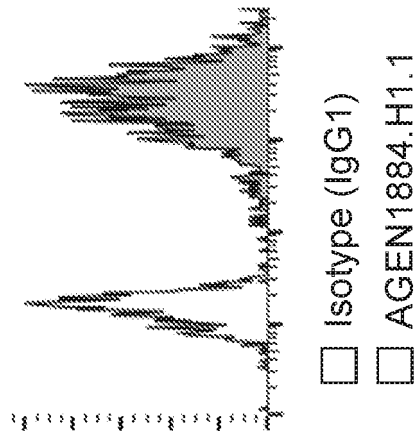


Figure 1B

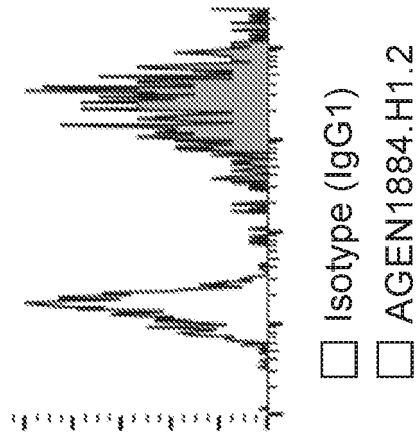


Figure 1C

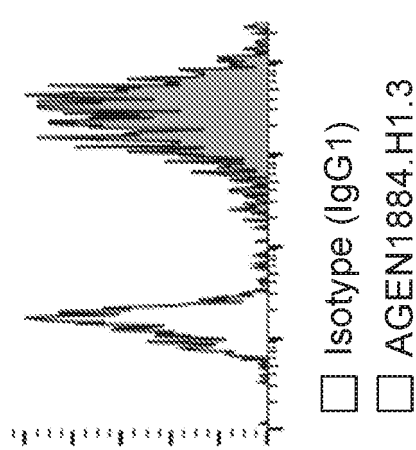


Figure 1D

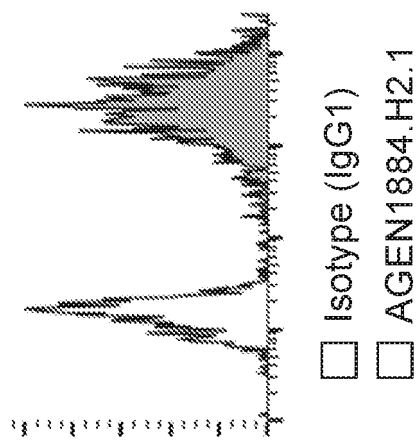


Figure 1E

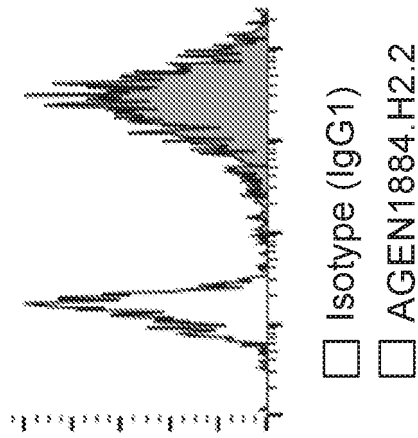


Figure 1F

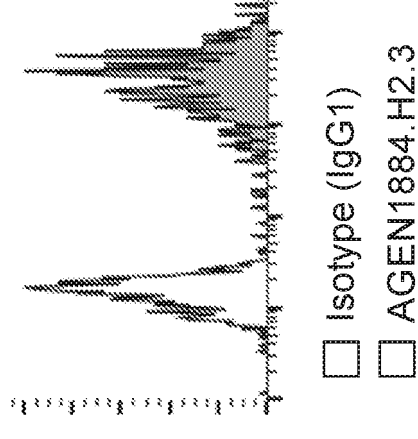


Figure 1G

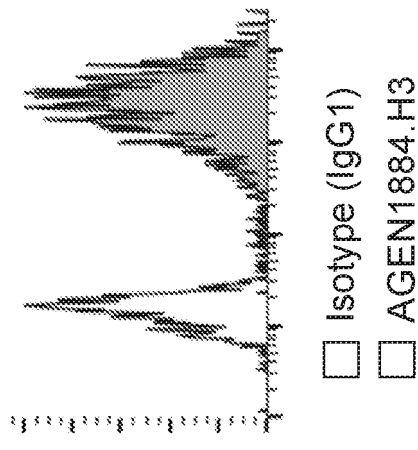


Figure 2

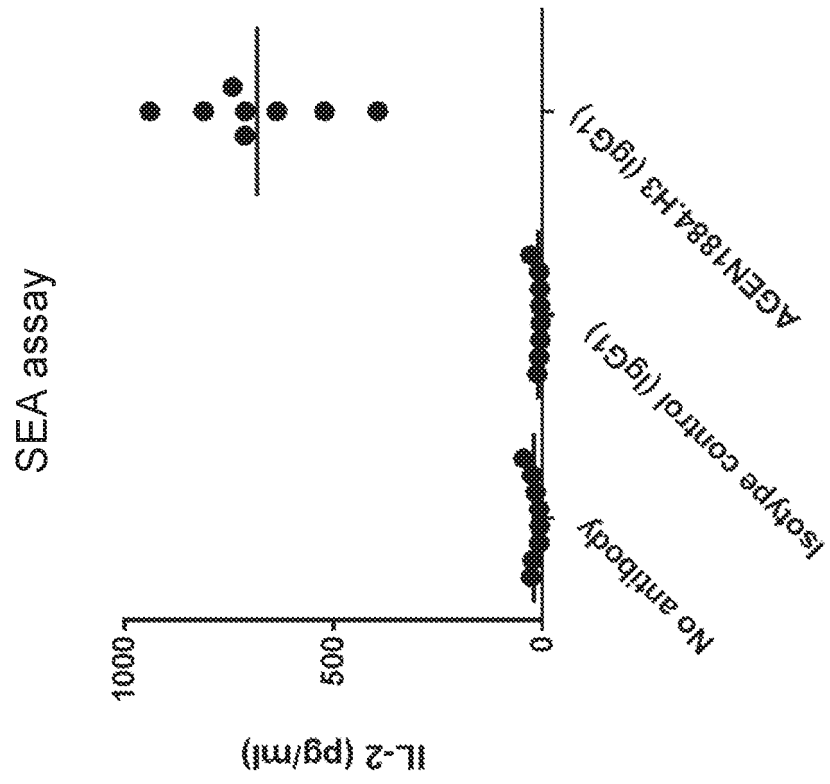


Figure 3

IL-2-luciferase reporter assay

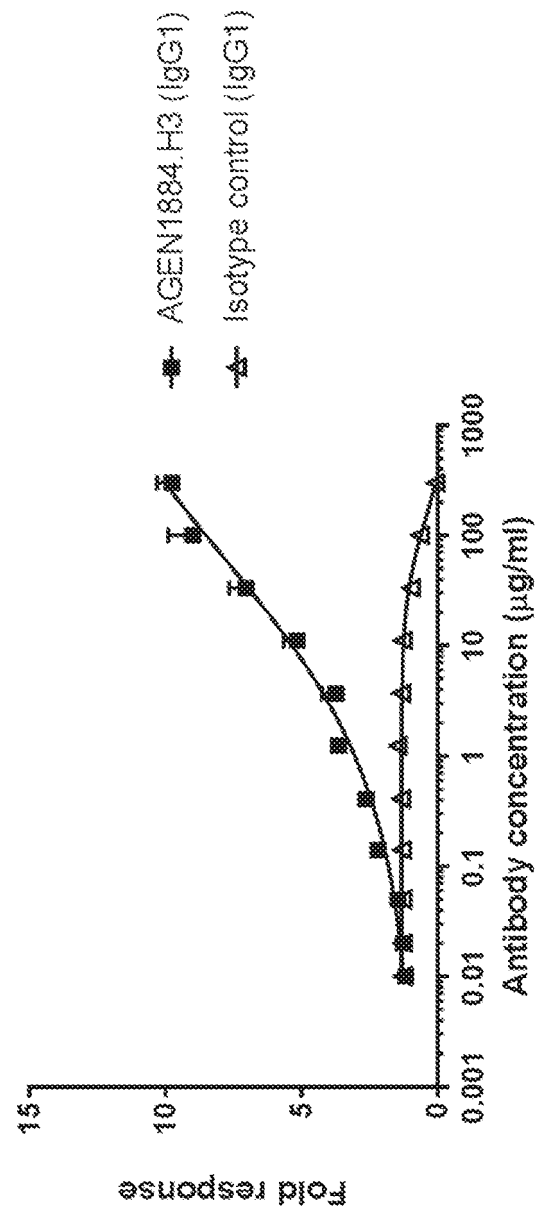


Figure 4

FcγRIIIA reporter assay

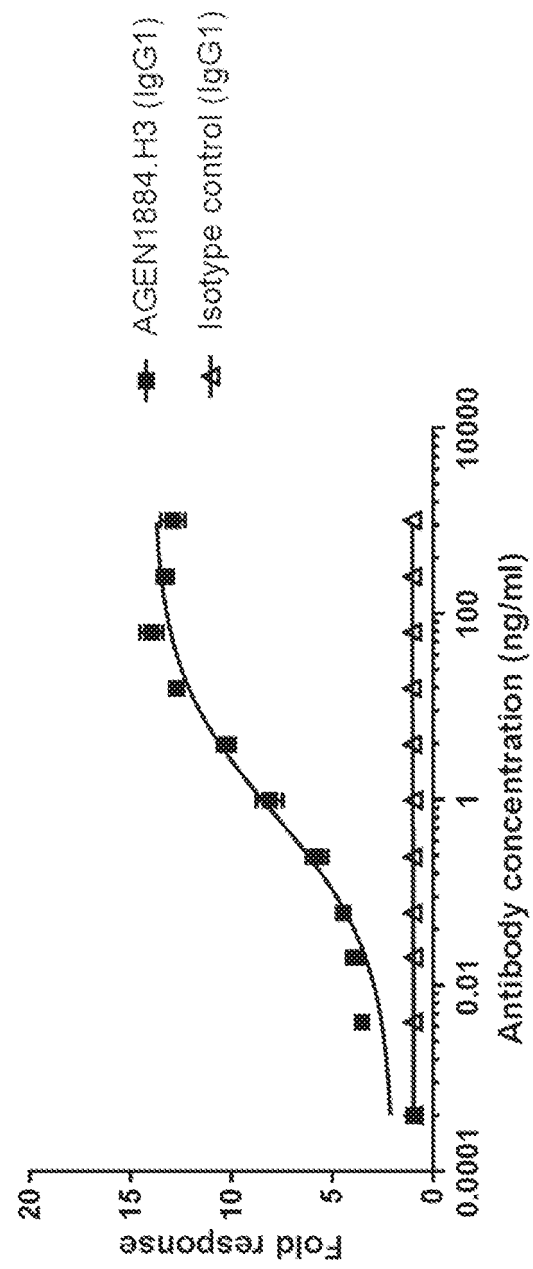


Figure 5A

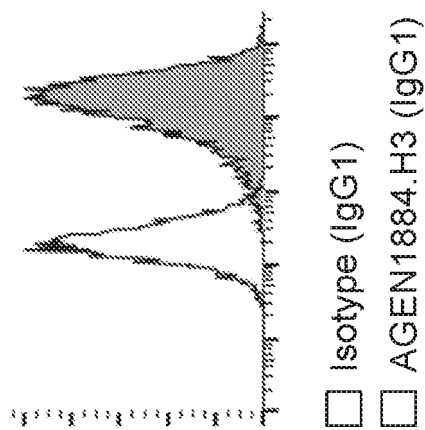


Figure 5B

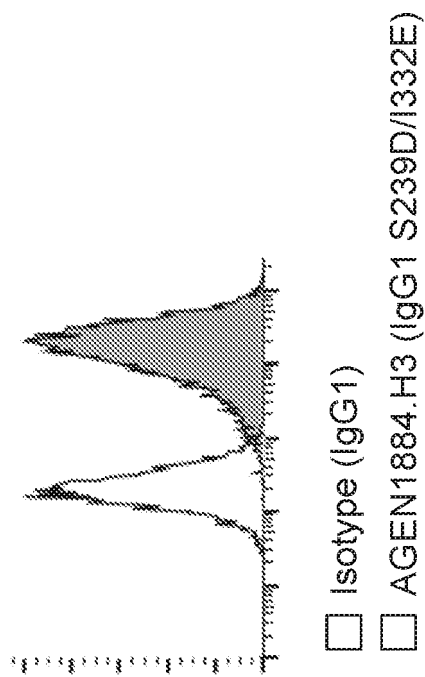


Figure 5C

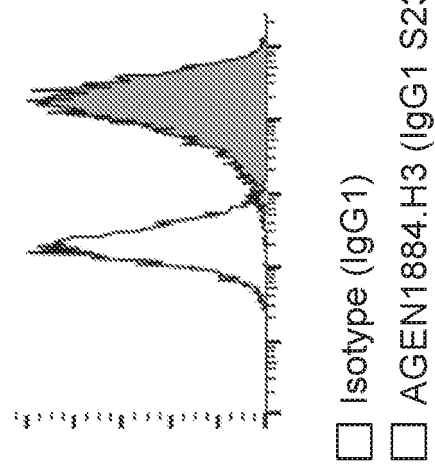


Figure 5D

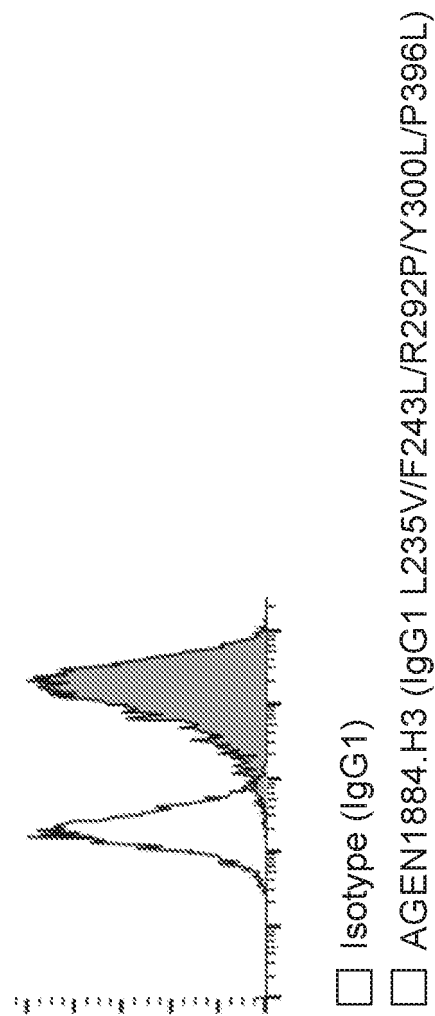


Figure 6A

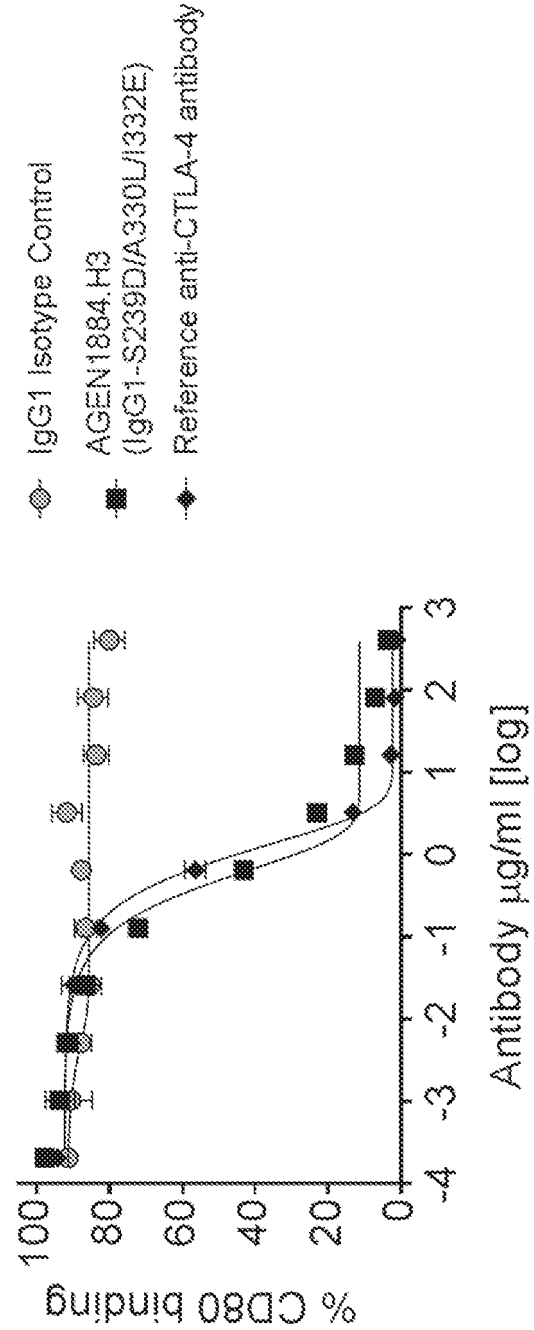


Figure 6B

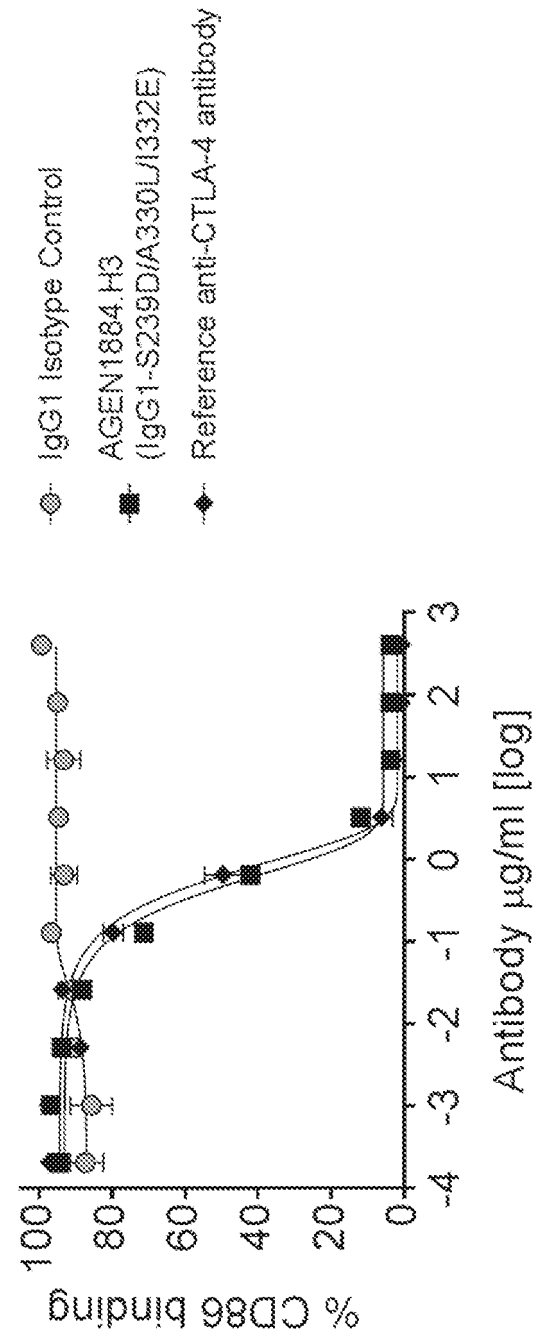


Figure 7A

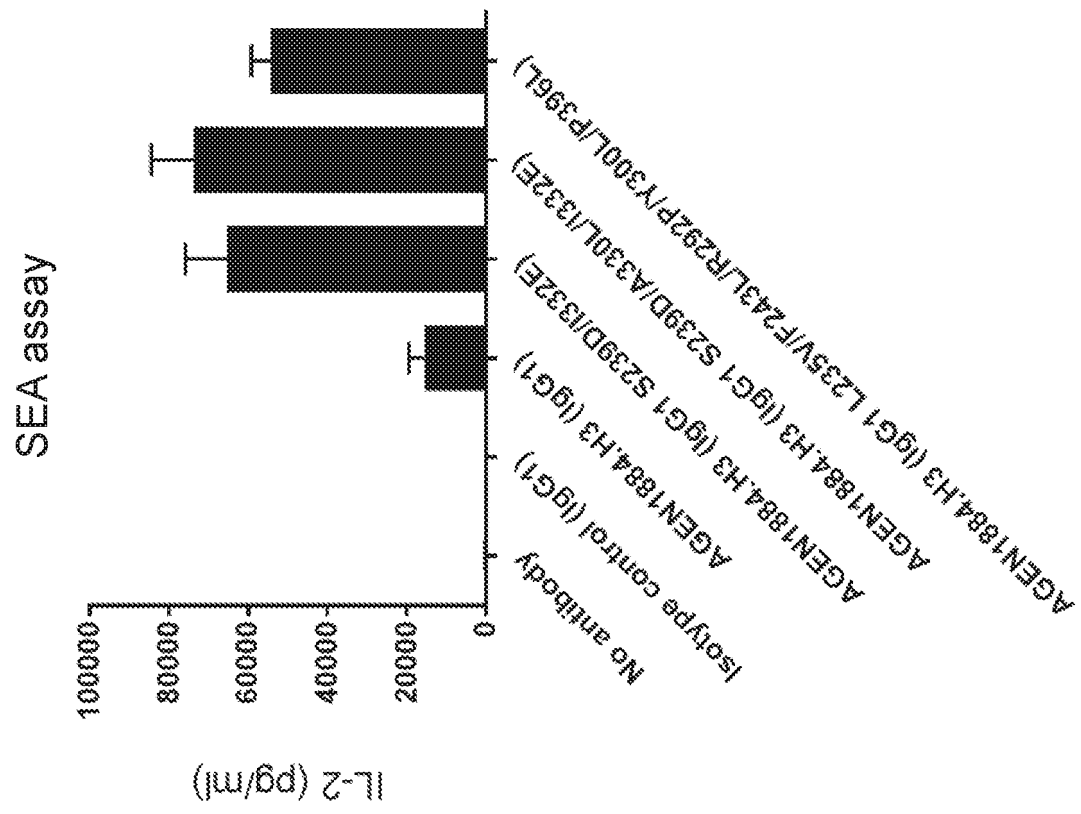


Figure 7B

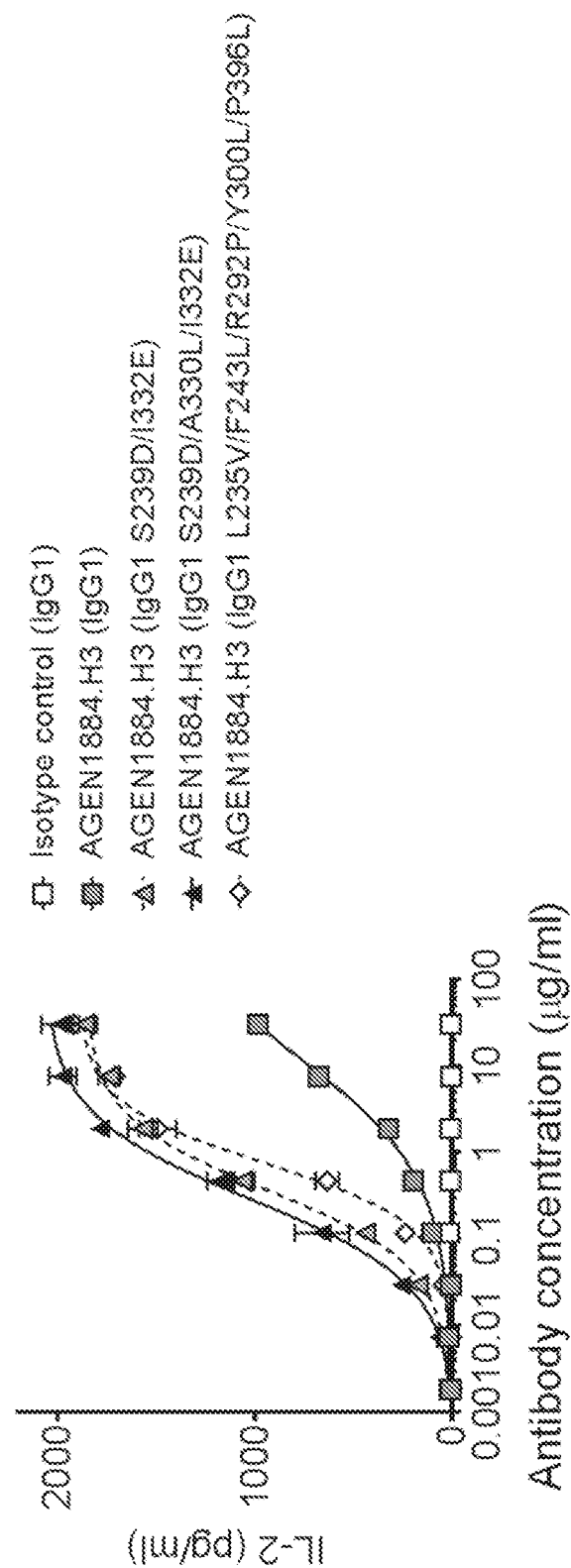


Figure 7C

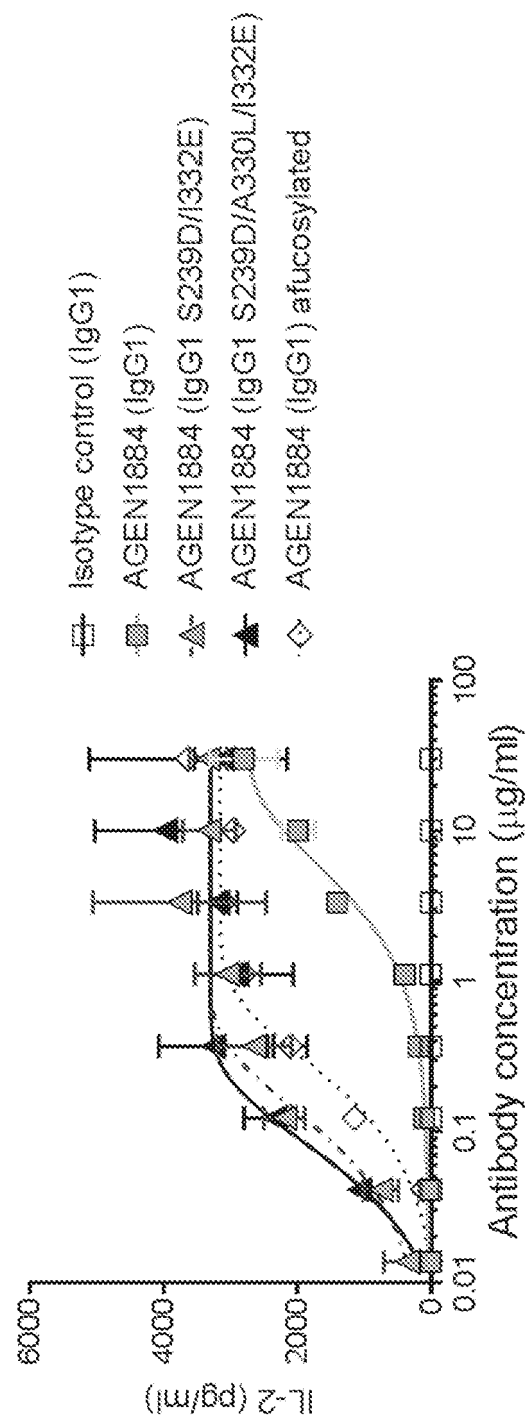


Figure 8A

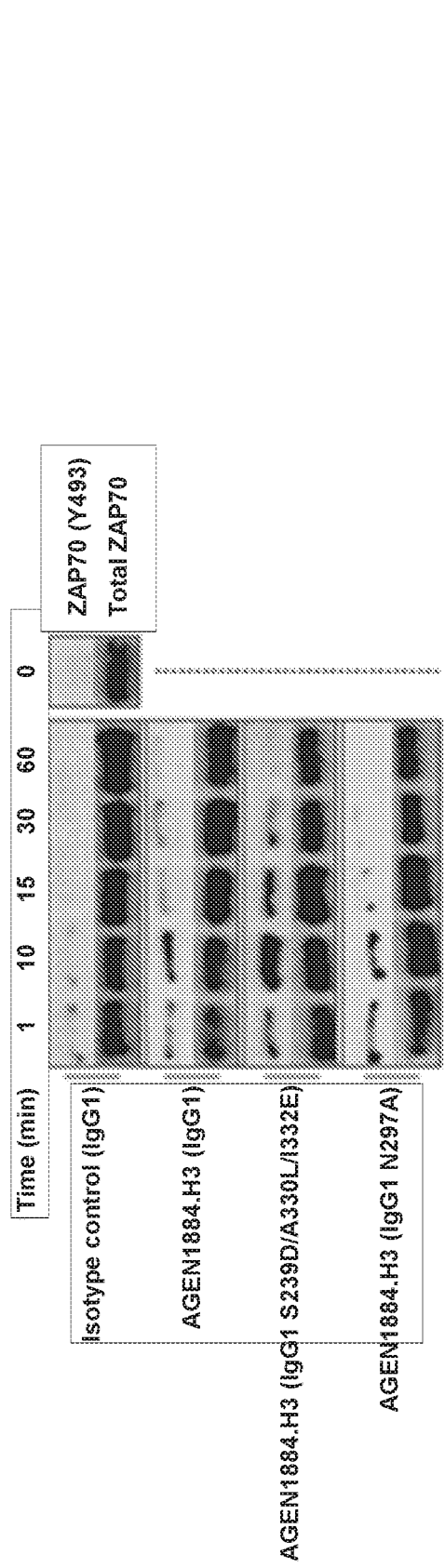


Figure 8B

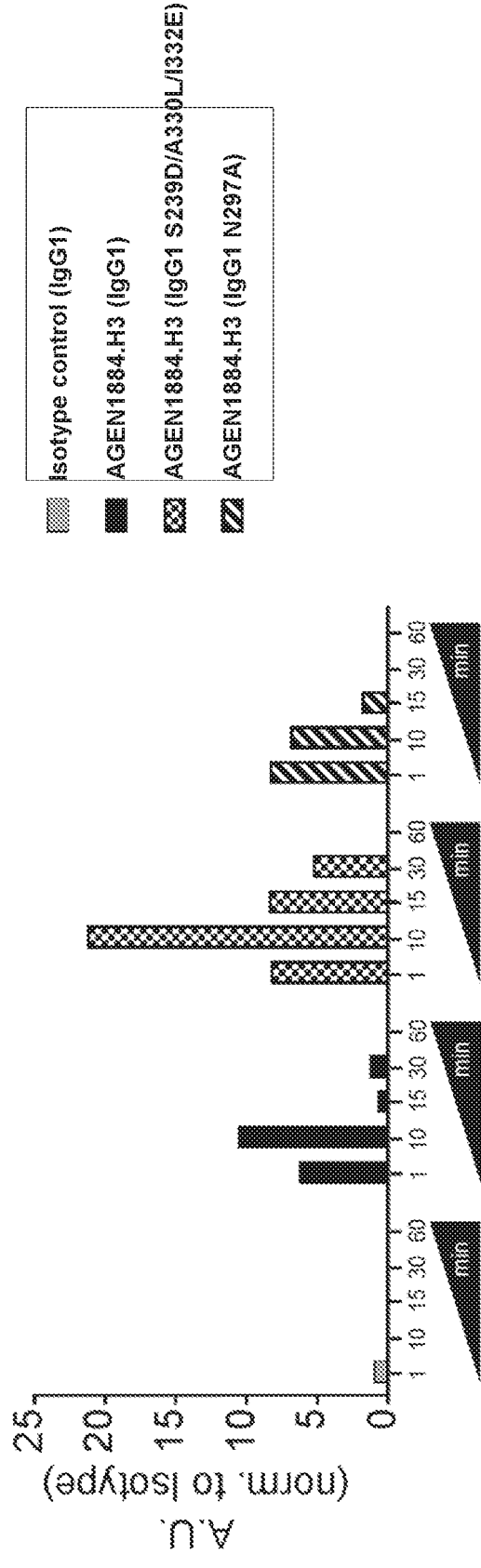


Figure 9A

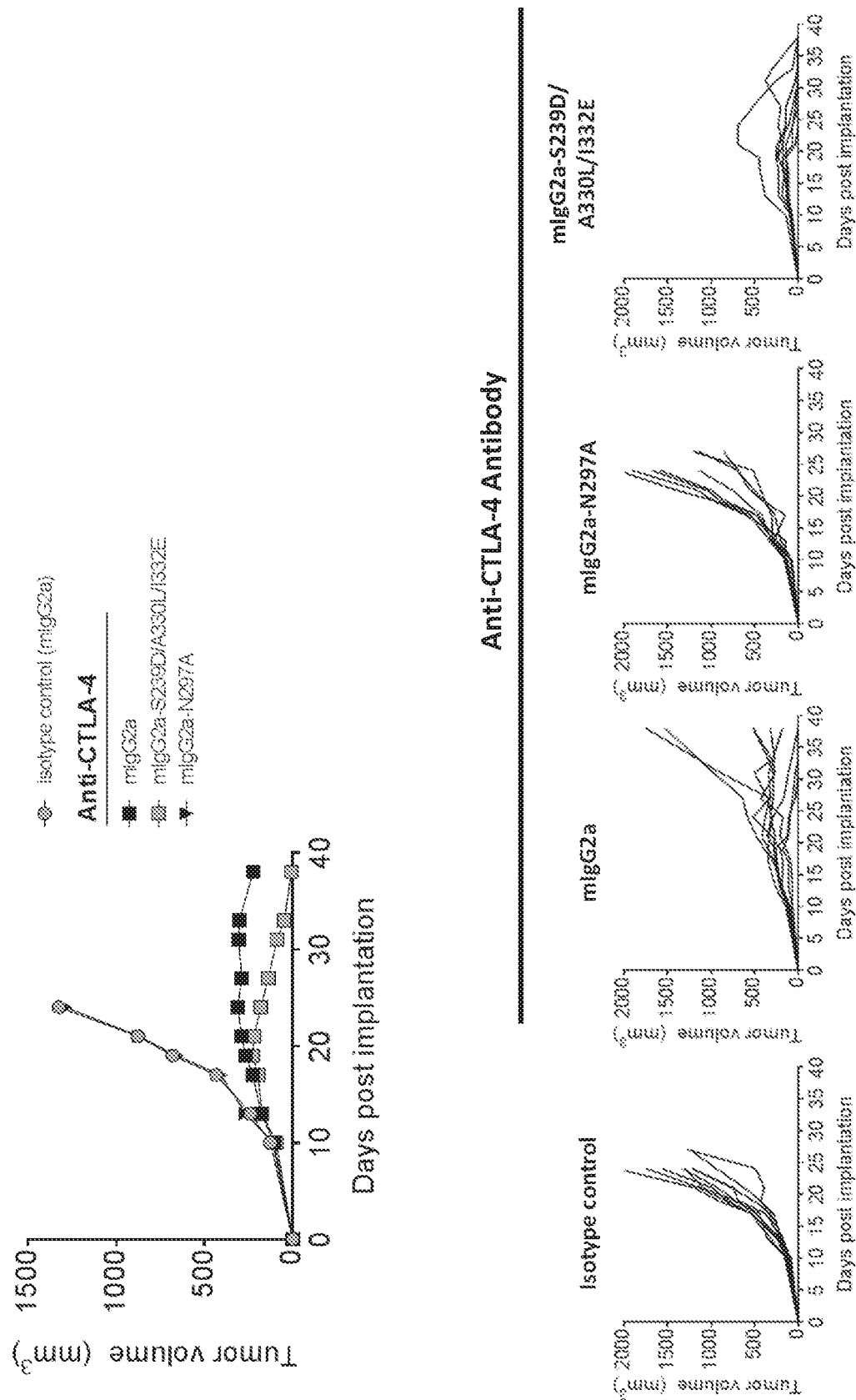


Figure 9B

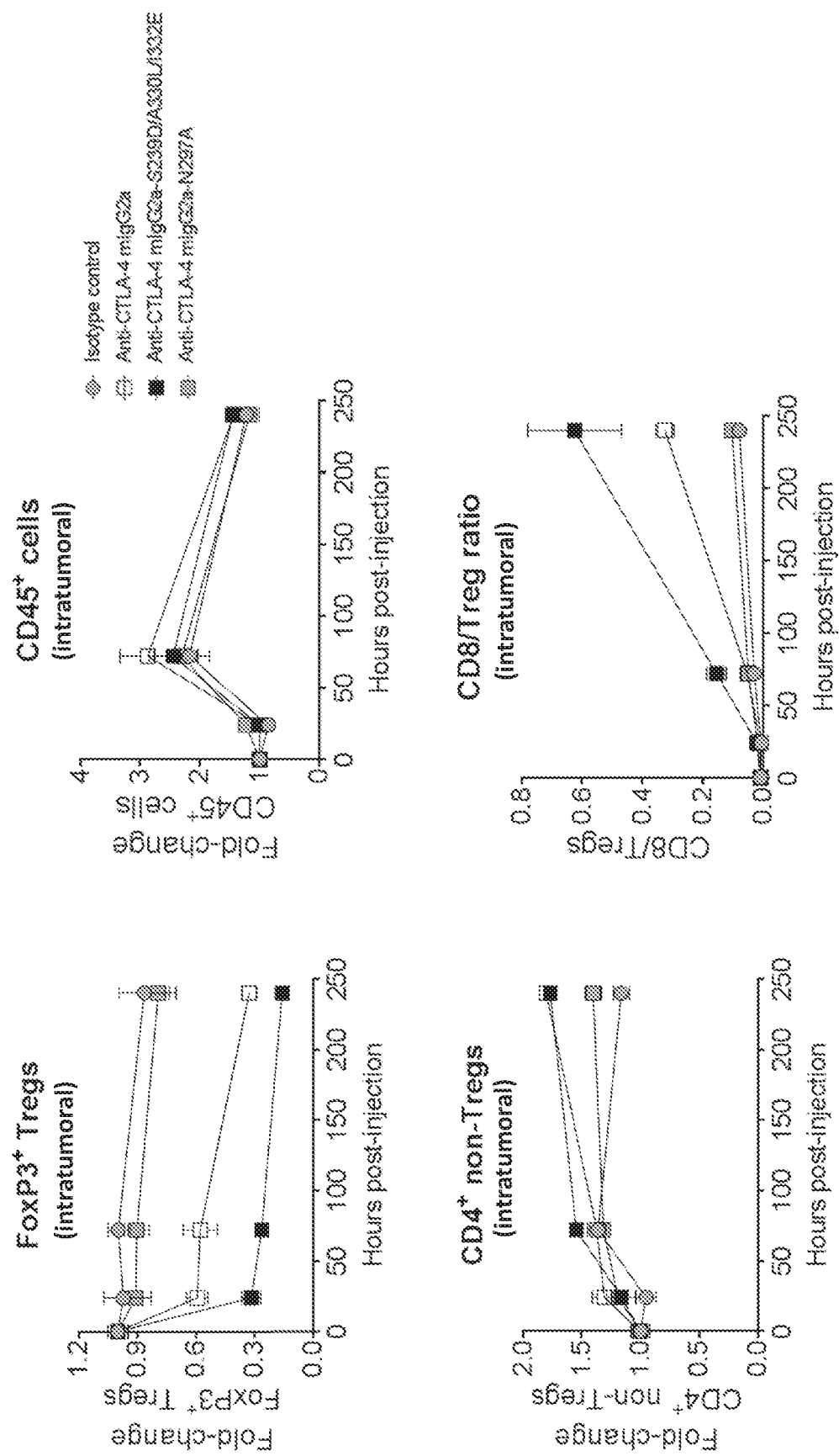


Figure 9C

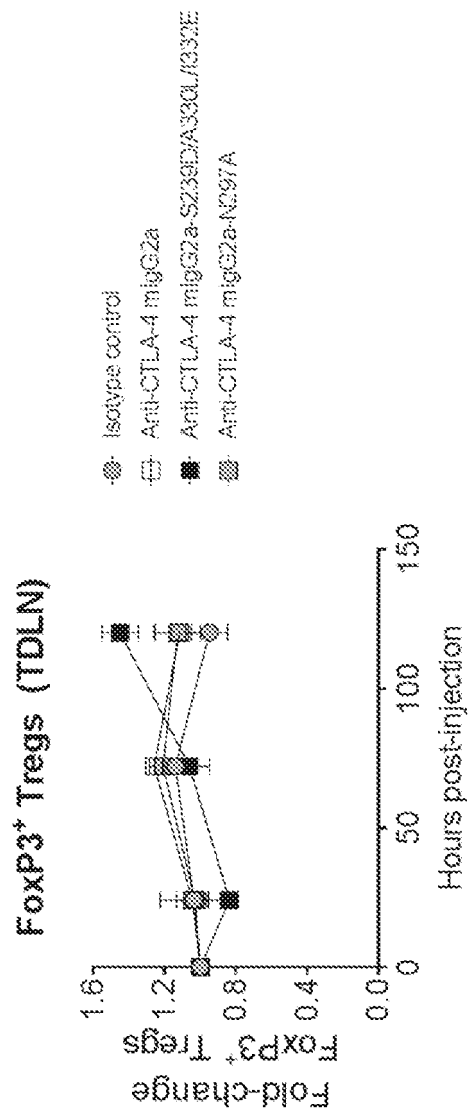


Figure 9D

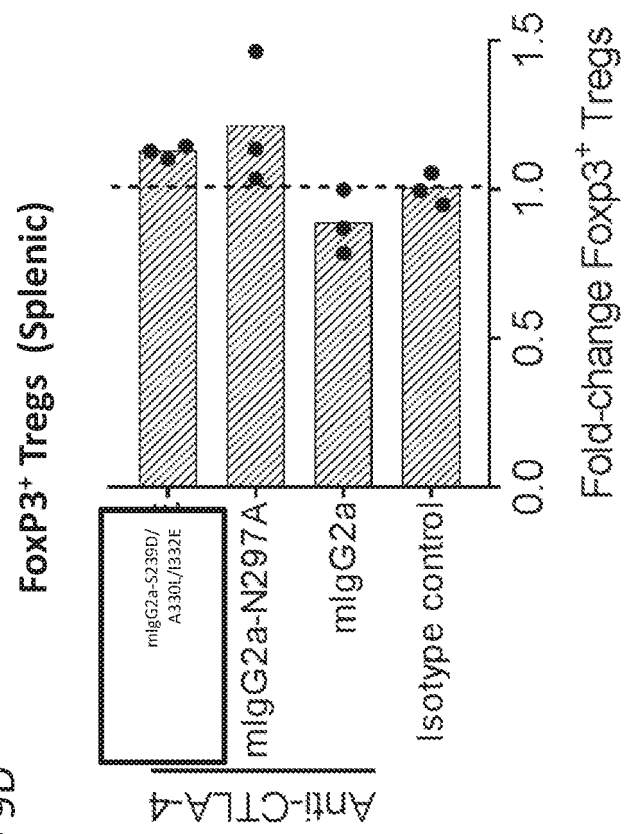


Figure 10

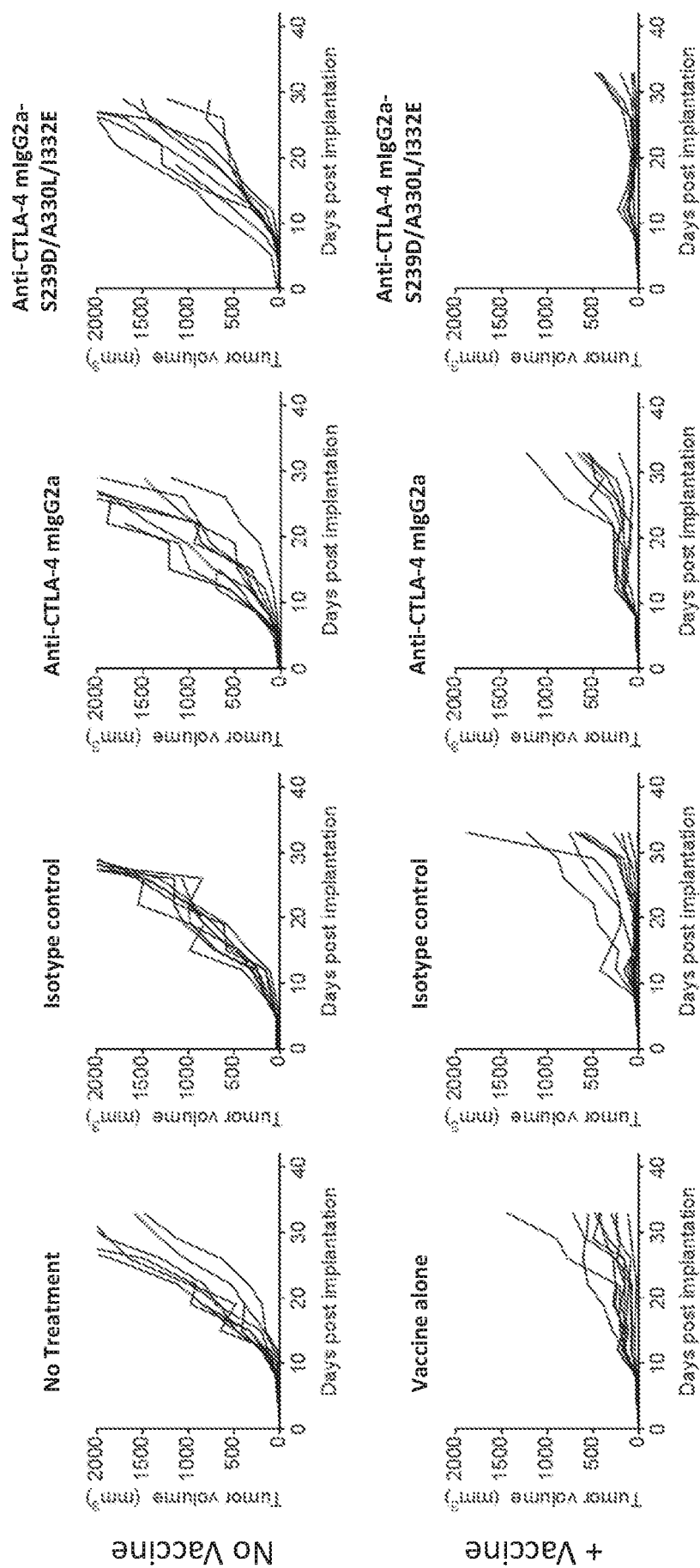


Figure 11A

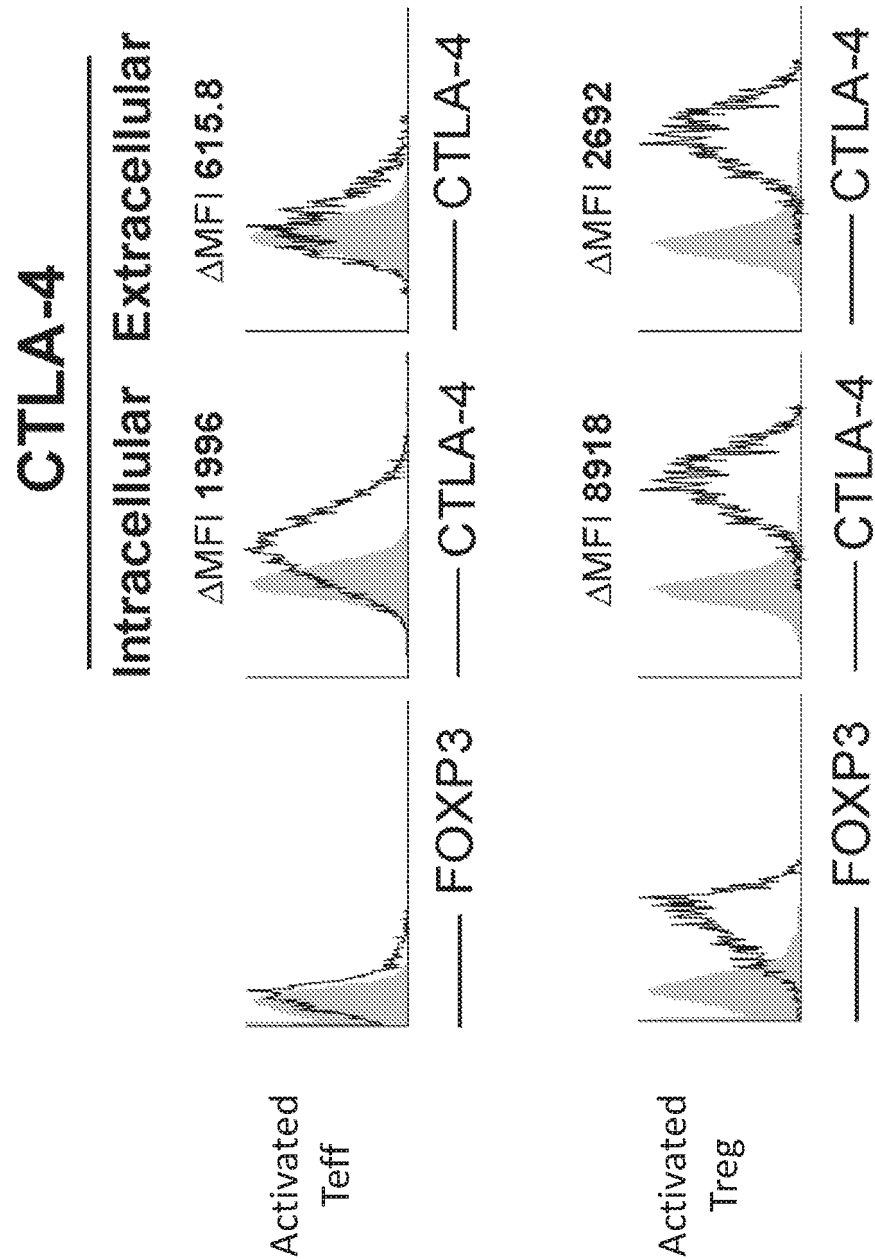


Figure 11B

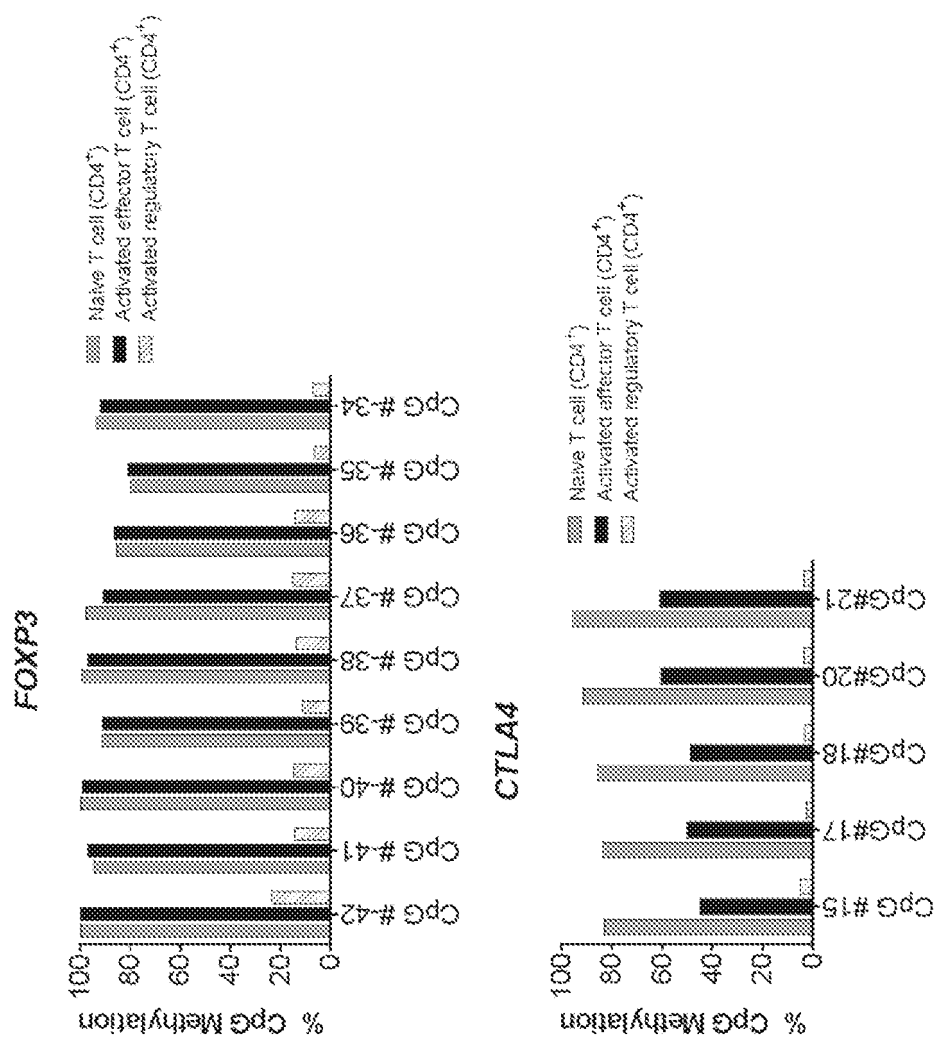


Figure 12A

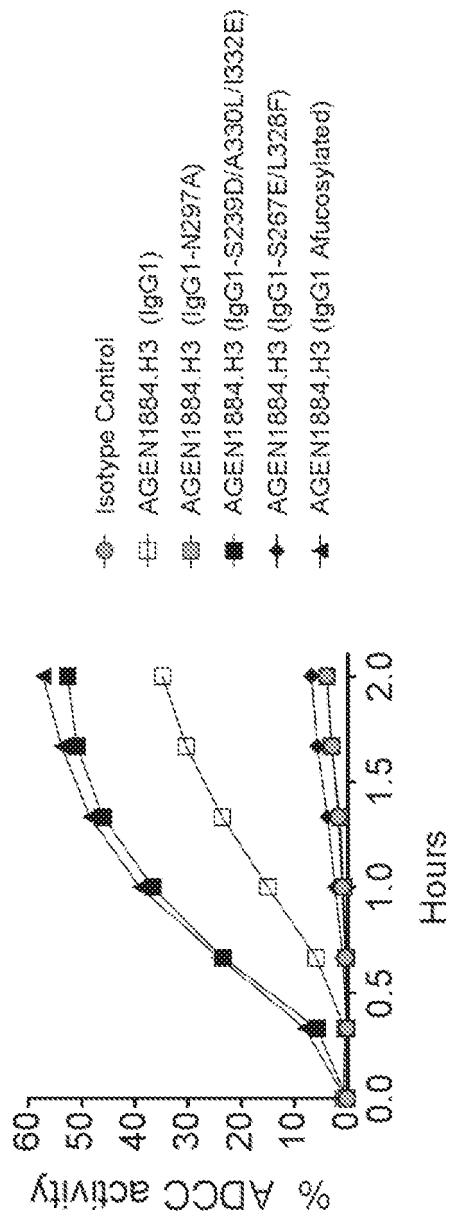


Figure 12B

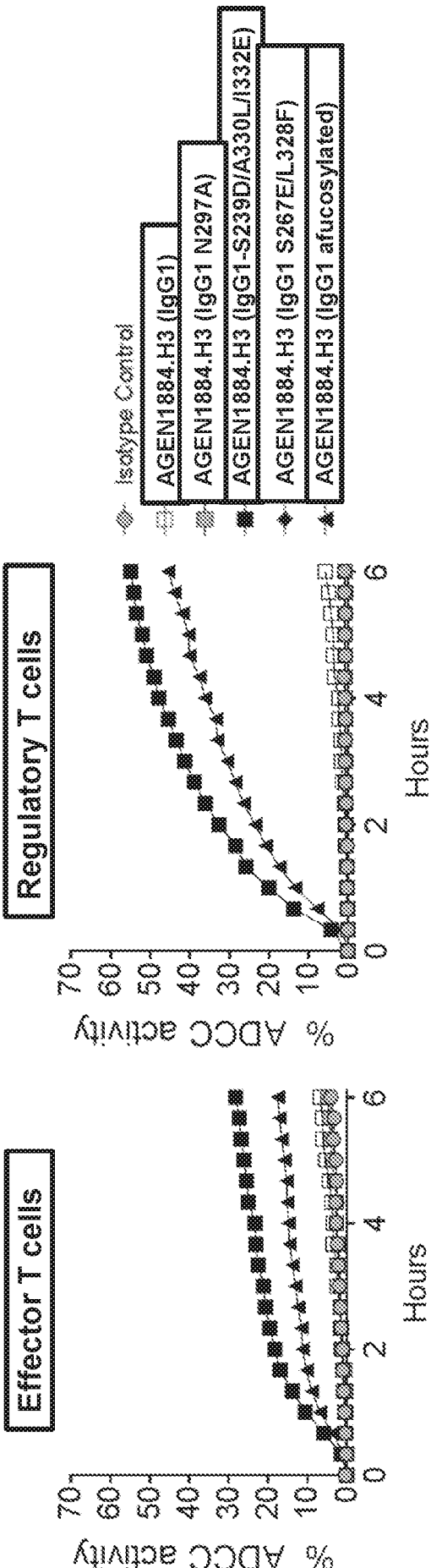


Figure 13A

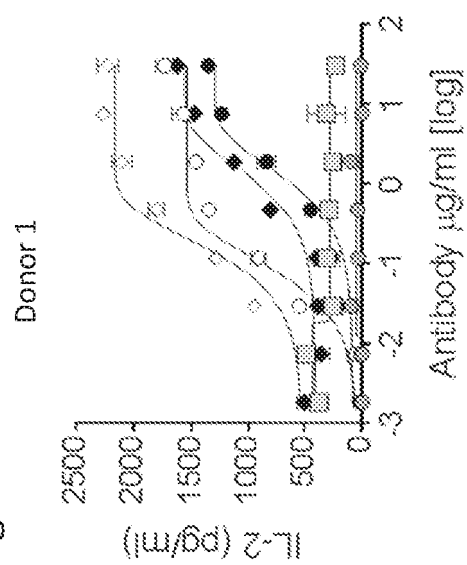


Figure 13C

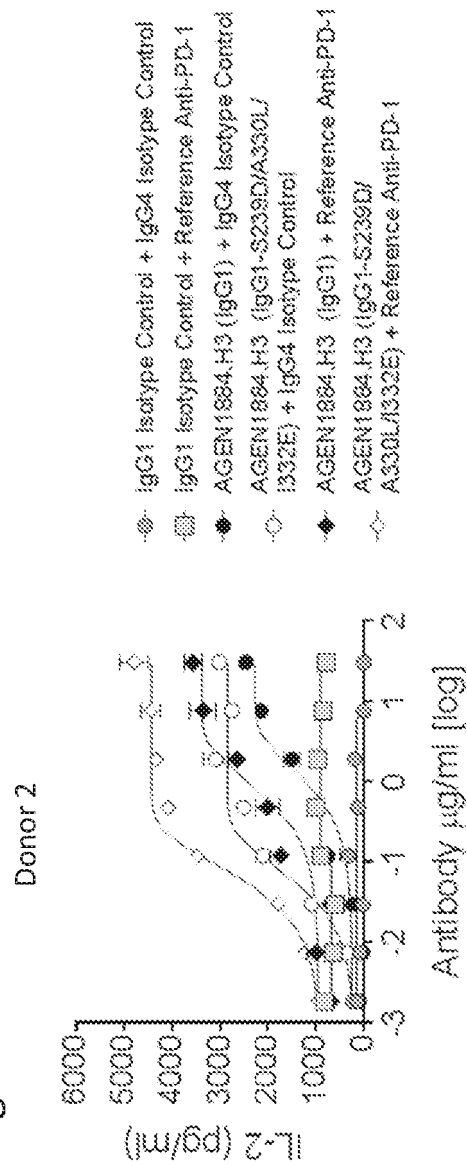


Figure 13B

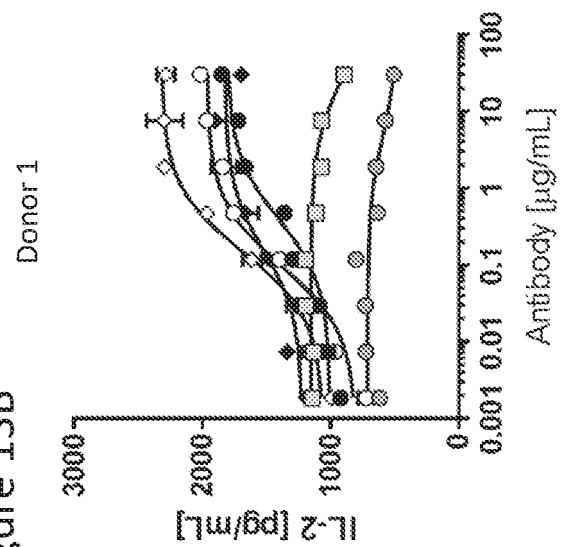
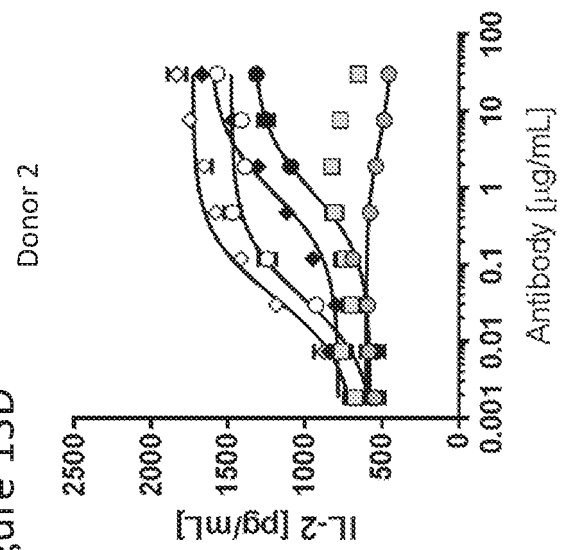


Figure 13D



PP16410	CTLA4_HUMAN	1	MACLGQRHKAQNLNATRTWPTCTLLFFLLFIPVFCKAMHVAQPAVVLASSRGIASFVCEY	60
G7PL88	CTLA4_MACFA	1	R.....R.Y.....S.....N.....	60
PP09793	CTLA4_MOUSE	1	LR.Y.....Q.PS.....FVA.LT.....SE.IQ.T.S.....H.V...P...	60
Q62859	CTLA4_RAT	1	L..Y.TH.Q.PS.....FGV.LS.....I.SE.IQ.T.S.....H.V...P... *****::*:*:*:*:*: * : ******:*:*:*:*****:***:**** *****	60
PP16410	CTLA4_HUMAN	61	ASPGKATEVRVTVLRQADSQVTEVCAATYMMGNELTFLDDSICTGTSSGNQVNLTIQGLR	120
G7PL88	CTLA4_MACFA	61		120
PP09793	CTLA4_MOUSE	61	SPSHNTD.....TND.M.....T.FTEK.TVG...YPF.S..FNESR.....	120
Q62859	CTLA4_RAT	61	..SHNTD.....TND.....T.FTVK.T.G....PF.S..FNESR..... : : ******:*:*:*****: * : * * * : * : *****	120
PP16410	CTLA4_HUMAN	121	AMDTGLYICKVEIMYPPPYLIGNGTQIYVIDPEPCPDSDFLLWLAAVSSGLFFYSFL	180
G7PL88	CTLA4_MACFA	121	M.....	180
PP09793	CTLA4_MOUSE	121	V...L.....FV.M.....V..L.....	180
Q62859	CTLA4_RAT	121	.A....F.....FV.M..... * ******:*:*:*****: * : *****:***:**** *****	180
PP16410	CTLA4_HUMAN	181	LTAVSLSKMLKKRSPLTTCGVYVKMPPECEKQFQPYFIPIN	223
G7PL88	CTLA4_MACFA	181		223
PP09793	CTLA4_MOUSE	181	VS.....	223
Q62859	CTLA4_RAT	181	V...NRT..... : *****: *****:*****	223

Figure 14B

SP P16410 CTLA4_HUMAN	MACLGFORHKAQNLATRTWPCTLLFFLLFIP--VFC-----KAMHVAQPAVLA----	48
TR G7PL88 G7PL88_MACFA	MACLGFORHKAQNLATRTPYTLLFSLLFIP--VFS-----KAMHVAQPAVLA----	48
SP P10747 CD28_HUMAN	-----MLRLLALN--LFPS-IQVTGNKILVKQSP-MLV----	30
SP Q9Y6W8 ICOS_HUMAN	-----MKSLWY-----FF--LFCIRIKVLTGEINGSANYEMFI----	32
SP Q7Z6A9 BTLA_HUMAN	-----MKTLPAMLG TGKLFVW-----FFLIPLYLDIWNHKGESCDVQLYIK	41
SP Q15116 PDCD1_HUMAN	-----MQIPQAPWPVVWAVLQLGWRPGWFLDSPD-RPWNPPTFSPALLVV----	44
	*	
	:	
SP P16410 CTLA4_HUMAN	-----SSRGIAFVCEYASPGKA---TEVRVTVLRQADSQVTEVCAATYMMGNE---LT	96
TR G7PL88 G7PL88_MACFA	-----NSRGIAFVCEYASPGKA---TEVRVTVLRQADSQVTEVCAATYMMGNE---LT	96
SP P10747 CD28_HUMAN	-----AYDNAVNLSCKYSYNLFS---REFRASLHKGLDSA-VEVCVVYGNYSQQQLQVY	79
SP Q9Y6W8 ICOS_HUMAN	-----FHNGGVQILCKYPD--IV---QQFKMQLLKGGQ-----ILCDLTKTKGSGNTVS	76
SP Q7Z6A9 BTLA_HUMAN	RQSEHSILAGDPFELECPVKYCANRPHVTWCKLN---GT-----TCVKLEDRQ-----	86
SP Q15116 PDCD1_HUMAN	-----TEGDNATFTCSFSNTSESFVLNWYRMSPSNQTDK-----LAAFPEDR-----	86
	:	
	*	
	:	
SP P16410 CTLA4_HUMAN	FLDDSICT-----GTSSGNQVNLT-----QGLRAMDTGLYICKVELMYPYPYLGIG-----	144
TR G7PL88 G7PL88_MACFA	FLDDSICT-----GTSSGNQVNLT-----QGLRAMDTGLYICKVELMYPYPYMGIG-----	144
SP P10747 CD28_HUMAN	SKTGFNCD-----GKLGNESVTFFL-----QNLVYNQTDIYFCKIEVMYPPPPYLDNEK-----	127
SP Q9Y6W8 ICOS_HUMAN	IKSLKFCH-----SQLSNNSVSFFL-----YNLDHSHANYFFCNLSIFDPPPFKVTLT-----	124
SP Q7Z6A9 BTLA_HUMAN	-----TSWKEEKNISFFILHFEPVLPNDNGSYRCSANFQSNL---IE-----	125
SP Q15116 PDCD1_HUMAN	SQPGQDCRFRVTQLPNGRDFHMSV---VRRRNDSGTYLCGAISLAPKAQIKESLRAELR	143
	...	
	:	
	*	

Figure 14C

SP P16410 CTLA4_HUMAN	-NGTQIYVIDP-----EPCPDS-----DFLLWILAAVSSGLFFYSFLLTAVSL--S-KML	190
TR G7PL88 G7PL88_MACFA	-NGTQIYVIDP-----EPCPDS-----DFLLWILAAVSSGLFFYSFLLTAVSL--S-KML	190
SP P10747 CD28_HUMAN	SNGTIIHVKGK-----HLCPSPLFPGPSKPFWWLVVVGVLACYSLLVTVAFI--IFWVR	180
SP Q9Y6W8 ICOS_HUMAN	--GGYLHIYES-----QLCCQL-----KFWLPIGCAA---FVVVCILGCIL--ICWLT	165
SP Q7Z6A9 BTLA_HUMAN	SHSTTLYVTDVKASERPSKDEMASR-PWLLYRLLPLGG-----LPLLITTCFCLECCLR	180
SP Q15116 PDCD1_HUMAN	VTERRAEVPTA-----HPSPSPRPAG-QFQTLVVGVGGLLSLVLLVWVLAV--ICSRA	195
	;	
		
	:	
SP P16410 CTLA4_HUMAN	KKRSP-----LTTGVYVKMPPE-----PEC-EKQFQPYFIPIN-----	223
TR G7PL88 G7PL88_MACFA	KKRSP-----LTTGVYVKMPPE-----PEC-EKQFQPYFIPIN-----	223
SP P10747 CD28_HUMAN	SKRSR-----LLHSDYMNMTPRR-----PGPTRKHYQPYAPPRD--FAAYRS-----	220
SP Q9Y6W8 ICOS_HUMAN	KKKYSSSVHDPNGEYMFMRVN-----TAKKSRLTDVTL-----	199
SP Q7Z6A9 BTLA_HUMAN	HQKQNELSDTAGREINLVDAHLKSEQTEASTRQNSQVLLSETGIYDNDPDLCFRMQEGS	240
SP Q15116 PDCD1_HUMAN	ARG-----TIG-----ARR-----TGQP-LKEDPSAVPVF--SVDYGELDFQWREKT	234
	:	
		
	:	
SP P16410 CTLA4_HUMAN	-----	
TR G7PL88 G7PL88_MACFA	-----	
SP P10747 CD28_HUMAN	-----	
SP Q9Y6W8 ICOS_HUMAN	-----	
SP Q7Z6A9 BTLA_HUMAN	EVYSNPCLEENKP--GIVYASLNHSHVIGPNSRLARNVKEAPTEYASI-----CVRS-	289
SP Q15116 PDCD1_HUMAN	PEPPVPCVPEQTEYATIVFP-----SGMGTSPPARRGSADGPRSAQPLRPEDGHCSWPL	288