SUPPLEMENTAL TABLE I

	Molecule	Vector	Sense/ Antisense	Sequence 5' 3'	Cloning sites	Template	Refere nce	
1	CD300c FL	pCDNA3.1/V5-His	Sense	TGCTGGGAGGAGACTACA	-	Human spleen cDNA library	-	
2	02500012	ТОРО	Antisense	isense GGAGGCTCACAAAGGATT -		Trainiar spicer ebit at notary		
3	CD300c WT	nDisplay	Sense	CCT <u>AGATCT</u> ACCGTGGCGGGCCCCGTGGGG	BglII	pCDNA3 1-CD300c FL		
4		P= -op-mj	Antisense	GCC <u>GTCGAC</u> CTACTGGTTCTCACCCTTGGG	Sall			
5	CD300c E191V	nDisplay	Sense	CTCCTGGTCCTCTTGGTGCTGCCCCTGCTCCTG	-	nDisplay-CD300c WT	-	
6	6 0000000000000000000000000000000000000	perspirey	Antisense	CAGGAGCAGGGGCAGCACCAAGAGGACCAG	-	polopidy eboote in t		
7	7 CD300c Acyto	pDisplay	Sense	Oligo 3	BglII	nDisplay-CD300c WT	-	
8	,	1 -1 -3	Antisense	GCC <u>GTCGAC</u> CTAAGGTCTGTTCACCCA	Sall	r -r -5		
9	CD300c AIg	pDisplay	Sense	CCT <u>AGATCT</u> CCGGCCGGGACGACCACA	BgIII	pDisplay-CD300c WT	-	
10		1 1 2	Antisense	Oligo 4	Sall			
11	11 CD300c WT	pBabePuro-2×Mvc	Sense	CTG <u>GAATTC</u> ACCGTGGCGGGCCCCGTG	EcoRI	pDisplay-CD300c W1	-	
12	CD300c E191 v		Antisense	Oligo 4	Sall	pDisplay-CD300c E191V	-	
15	CD300c Acyto	pBabePuro-2×Myc	Sense		ECOKI	pDisplay-CD300c ∆cyto	-	
14	-		Antisense		Sall			
15	CD300c WT	pCDNA3-FLAG	Sense		ECOKI	pDisplay-CD300c WT	-	
10			Antisense		All01		-	
17	HA-CD300c (Soluble)	pEXP5-CT-TOPO	Anticonco		-	pDisplay-CD300c WT	-	
10	CD200h WT		Antisense	CTCCCATCCCAACCCCCACACTCTCTC	- Domili			
20	CD300b K 1581	pCDNA3-FLAG	Anticonco		EaoPI	pDisplay-CD300b WT	(19)	
20	CD5000 K158L		Sanco	Olige 10	PamUI			
21	CD300b ∆Cyto	pCDNA3-FLAG	Anticonco	GCCGTCGACCTACCTCTGAGACCCCCTTCAA	Sall (Vhal)	pDisplay-CD300b ∆1	(19)	
22			Sense		Sall (XII01)		-	
23	23 CD300b C50G	pCDNA3-FLAG	Antisense	CGCACCCCTCGGCCCCACCACTTAATG	-	pCDNA3-FLAG-CD300b WT		
25	25 CD300b W103G		Sense	CGCAGATGTTTACCGGTGTGGGATTGAAAG	-		-	
25		pCDNA3-FLAG	Antisense	CTTTCAATCCCACACCCGTAAACATCTGCG	-	pCDNA3-FLAG-CD300b WT	-	
20		1	Sense	CCGAGGGGTGCGCGGGGATACATGCAAGAT	-		-	
27	CD300b W55,103G	pCDNA3-FLAG	Antisense		-	pCDNA3-FLAG-CD300b W103G		
20			Sense	AAGAAGAGGACCTATGCTTGGGACTCAAGT	-		-	
30	30 CD300b W55,103G-D112M	pCDNA3-FLAG	Antisense	ACTTGAGTCCCAAGCATAGGTCCTCTTCTT	-	pCDNA3-FLAG-CD300b W55,103G	-	
31	CD300b W55.103G-O63S-	CDN142 FL 4 C	Sense	CAAGATCCTCATTTCAACCAGAGGGTCGGA	-		-	
32	D112M	pCDNA3-FLAG	Antisense	TCCGACCCTCTGGTTGAAATGAGGATCTTG	-	pCDNA3-FLAG-CD300b W55,103G-D112M	-	
33	CD AND I I	pCDNA3-FLAG	Sense	CTGGGATCCCCAGAGGGAGCGGCTTCC	BamHI (BgIII)		(10)	
34	CD300b Δlg	pDisplay	Antisense	Oligo 20	EcoRI	pDisplay-CD300b WT	(19)	
35		EVES OT TOPO	Sense	ATGGGTGCGGATTACAAGGACGATGACGAC	-	CDNA2 FLAC CD200L WT		
36	FLAG-CD300b (Soluble)	pEXPS-CI-TOPO	Antisense	CGCCTAGTAGTGGTTCCTCTTGTGGGA	-	pCDNA3-FLAG-CD3000 W I	-	
37	CD300-WT		Sense	CCT <u>GAATTC</u> TTTCAGGCTGTTTGTCTCTG	EcoRI	Distant CD200, WT	(20)	
38	CD300e W1	pCDNA5-FLAG	Antisense	GGA <u>CTCGAG</u> CTATCTTCCAGGAGGAGC	XhoI	pDisplay-CD300e w I	(20)	
39	CD200fWT	DNA2 ELAG	Sense	CCT <u>AGATCT</u> GGCTACTCCATTGCCACTCAA	BgIII (BamHI)	pDicplay CD200fWT	(19)	
40	40 CD3001 W I	peditA3-reAd	Antisense	GCC <u>GTCGAC</u> CTAAGGCCTGCTGATGGTGCTGTATTC	Sall (XhoI)	pDisplay-CD3001 w 1	(10)	
41	CD300fWT	nBabePuro_2×Mvc	Sense	GCC <u>GAATTC</u> GGCTACTCCATTGCCACTCAA	EcoRI	nDienlaw_CD300fWT	(18)	
42	42 CD5001 W1	pBaber uto-2×Wye	Antisense	Oligo 40	Sall	pDisplay-CD5001 W1	(10)	
43	43 44 HA-CD300f (Soluble)	pEXP5-CT-TOPO	Sense	Oligo 17	-	nDisplay-CD300f WT	(18)	
44		pEAF5-C1-TOFO	Antisense	CGCCTAACTGAGCTTCAAGAGCTTGTG	-	pusping custor wit	(10)	
45	45 Rat CD300b FL	pCDNA3.1/V5-His	Sense	AAGAGGTGCAGAGTGGGAAG	-	PBMC cDNA	-	
46		ТОРО	Antisense	AGGGAAGGCTCTGCTTATCC	-	T Bine (Brint	-	
47	Rat CD300b WT	nDisplay	Sense	CCT <u>AGATCT</u> CAAGGCCCAGAATTGGTGAGG	BglII	pCDNA3 1-Rat CD300h FL	-	
48	Ku CD5000 W I	pDispiny	Antisense	GCC <u>CTGCAG</u> CTAAGGAGAAATGTCTTTAGC	PstI		-	
49	CD300a FL	pCDNA3.1/V5-His	Sense	GCACCAAGAAAAGCAGAA	-	PHA-activated PBMC cDNA library	-	
50	CDSOUTL	ТОРО	Antisense	GGCAGGACAAAAGCCTAT	-			
51	CD300a WT	pDisplay	Sense	CCT <u>AGATCT</u> AGCAAATGCAGGACCGTGGCG	BgIII (BamHI)	pCDNA3.1-CD300a FL	-	
52		pcDNA3-FLAG	Antisense	GCC <u>GTCGAC</u> CTATGTCTTCCTTATCACACT	Sall (XhoI)	r		
53	TREM1 FL	pCDNA3.1/V5-His	Sense	GCTGGTGCACAGGAAGGATG	-	Purified human monocytes cDNA	-	
54		TOPO	Antisense	GGC1GGAAGTCAGAGGACATT	- D.W			
55	TREM1 WT	pcDNA3-FLAG	Sense		BgIII	pCDNA3.1-TREM1 FL	-	
50			Antisense	GUUGTUGACUTAGGGTACAAATGACUT	Sall	^ 		
5/	FLAG-TREM1 (Soluble)	pEXP5-CT-TOPO	Antioons		-	pcDNA3-FLAG-TREM1 WT	-	
38			Antisense	COCCIACCIGAIGAIAICIGICACAII	-			

59	CD28 Full Longth	pCDNA3.1/V5-His	Sense	TTCAGTTCCCCTCACACTTCGGGT	-	RPMC aDNA		
60	CD28 Full Length	ТОРО	Antisense	TGGCGGTCATTTCCTATCCAGAGC	-	FBMC CDNA	-	
61	CD28 WT	pcDNA3_FLAG	Sense	CCT <u>AGATCT</u> ATTTTGGTGAAGCAGTCG	BglII	pCDNA3 1-CD28 FI		
62	CD28 W1	peblyasticad	Antisense	GCC <u>GTCGAC</u> TCAGGAGCGATAGGCTGC	Sall	pedivA3.1-ed26112	_	
63	FacBy	pcDNA3-ELAG	Sense	CTG <u>GGATCC</u> GGAGAGCCTCAGCTCTGC	BamHI	DELAG CMV2 EacBy	(20)	
64	Γζεκγ	peblyasticad	Antisense	GCC <u>GAATTC</u> CTACTGTGGTGGTTTCTC	EcoRI	pread-cwiv2-reeky	(20)	
65			Sense	GATCCGATCCAGGTCCGAAAGGCATTCAAGAGATGC	_	_		
0.5	siRNA FceRy 1	pSilencer2.1-U6Hygro		CTTTCGGACCTGGATCTTTTTTGGAAA	_	<u> </u>		
66			Antisense	AGCTTTTCCAAAAAAGATCCAGGTCCGAAAGGCATCT	_			
				CTTGAATGCCTTTCGGACCTGGATCG	_	<u> </u>		
67	siRNA FceRy 4		Sanca	GATCCACATGAGAAACCACCCCAATTCAAGAGATTG	_			
		nSilencer? 1-U6Hygro	Sense	GGGTGGTTTCTCATGTTTTTTGGAAA	-	-	-	
69		pShencer2.1-00rtygio	Anticonco	AGCTTTTCCAAAAAAACATGAGAAACCACCCCAATCT				
08			Antisense	CTTGAATTGGGGTGGTTTCTCATGTG	-	-	-	

Table 1: Constructions used in this study. Oligonucleotides used for product amplification and templates are listed. Nucleotide changes introduced in the sequence for amino acid substitution are shown in bold letters. Restriction sites used for cloning are underlined. Compatible restriction sites in the vector when used are in parenthesis.

SUPPLEMENTAL FIGURES



A)

B)

С	L	s	I	0	G	P	E	L	v	R	G	P	E	0	G	S	v	т	v	0
				×	-	-	-	_			-	-	_	×	-			-		×
CAC	TAC	AGC	TCA	AGA	TGG	CAA	ACC	AAC	AGG	AAG	TGG	TGG	TGT	CGP	GGG	GCA	CAC	TGG	AGC	ACI
н	Y	s	s	R	W	Q	т	N	R	к	W	W	C	R	G	Α	н	W	s	т
AGG	ATC	CTC	ATC	CGA	ACC	ACA	GGA	TCF	GAG		GAF	ATG	AAG	AGI	GGC	CGG	TTG	TCC	ATC	AGG
R	I	L	I	R	т	т	G	s	Е	к	Е	М	к	s	G	R	L	s	I	R
AAI	CAG	ААА	AAC	AAC	TCG	TTC	CAG	GTI	ACC	ATG	GAG	ATG	CTT	AAG	CAF		GAC	ACG	GAI	ACT
N	Q	к	N	N	s	F	Q	v	т	М	Е	М	L	к	Q	N	D	т	D	т
TGG	TGC	GGT	ATC	GAA	ААА	TTT	GGA	ACI	GAC	CGI	GGG	ACC	AGA	GTT.	AAF	GTG	ATT	GTT	TAT	TCF
W	C	G	I	Е	к	F	G	т	D	R	G	т	R	v	к	v	I	v	Y	S
AAA	GCT	ACC	ATG	TCG	ACT	TCT	AAG	CAF	\CTT	TCC	TGG	;ccc	CACC	GTG	GAC	AGC	AGG	GCA	GAC	ATC
К	A	т	М	S	т	S	К	Q	L	S	M	Ρ	т	v	D	s	R	A	D	М
TCI	TCT	GAC	TTG	CAG	AAG	AGG	ACC	CAI	TAC	ATG	CTC	сте	GTG	TTT	GTG	AAG	GTG	CCT	GTC	TTG
S	S	D	L	Q	К	R	т	Н	Y	Μ	L	L	V	F	V	Κ	V	Ρ	V	L
ACC	TTG	GCT	GGI	GTT	GTC	CTC	TGG	CTO	AAG	CAG	TCG	ACI	CAG	AAG	GTC	CCT	GAG	GAA	.GAG	TGG
Т	L	А	G	V	V	L	W	L	К	Q	S	т	Q	К	V	Ρ	Е	Е	Е	M
CAC	ACT	стс	TGT	AGC	AAT	CTA	GAC	TCC	GTA	ICC1	CTG	GCI	AAA	GAC	ATI	TCT	CCT	TAG	acc	aato
Н	т	L	С	s	Ν	L	D	S	V	Ρ	L	A	К	D	Ι	s	Ρ			
2 2 0		acci	ttee	at																

CD300b_Human	MWD=PALLLSUSSG#SIQ6PESWRAPEQ6SIRVQCHYKQCABHYIKMACR6YRMDTCKT
CD300b_Rat	MWLSPALLLLSBFSGISIQ6PErWR=BEQ6SYRVQCHYSSRM6NNRKMACR6ARMSFCRI
CD300b_Human	in en secole inserven internet in vynne ei ren gan y moetere en e en ovry
CD300b_Rat	Nir i sekeniks gils i renorminge ovrnet il konstret timogieke et er er er kanve
CD300b_Human	NdpecRashaasennsnyrveicshkrnfynlivevkveidi i vtailmiks
CD300b_Rat	Vyscrftyngaskolswetvdsradnasolokatittillvevkvevni tasvvinnis
CD300b_Human	- CRVPEBPGEQFIYMNES-BPLIKENAT
CD300b_Rat	T <mark>CRVPEB</mark> EWRHTLCSNLDSVPLAKDISP

Supplemental Figure 1. A) Nucleotide and predicted amino acid sequence of rat CD300b (GU054494). The nucleotide sequence of rat CD300b containing an open reading frame of 627 bp is shown in upper case. The 5' and 3' untranslated regions are shown in lower case. The predicted amino acid sequence is shown below the nucleotide sequence. The signal peptide is underlined (dotted line). The Ig-like domain is marked in bold and the transmembrane domain is underlined (single line). Cysteine resides involved in the Ig-like domain fold are circled. N-glycosylation sites in the Ig-fold and the charged lysine in the transmembrane domain are boxed. B) Sequence alignment of CD300b with its rat ortholog. The entire molecule is represented. Identical amino acids and conservative changes are shown on black and grey backgrounds respectively.





Supplemental Figure 2. CD300b immunoglobulin domain structure. A structural model of CD300b Ig domain was obtained using CD300f and CLM-1 molecules as template. Strand representation. Crystallized members of CD300 family have shown that the V-set Ig fold is composed by a main immunoglobulin body and a prominent protrusion extending from it. Location and orientation of the side-chains of several amino acids in the protrusion are represented.

Figure 3



Supplemental Figure3. *In vitro* produced tagged-receptors were tested by WB techniques (left panel). Co-immunoprecipitation of *in vitro* translated receptors was assessed as described before (right panel).