

FIG. 1A

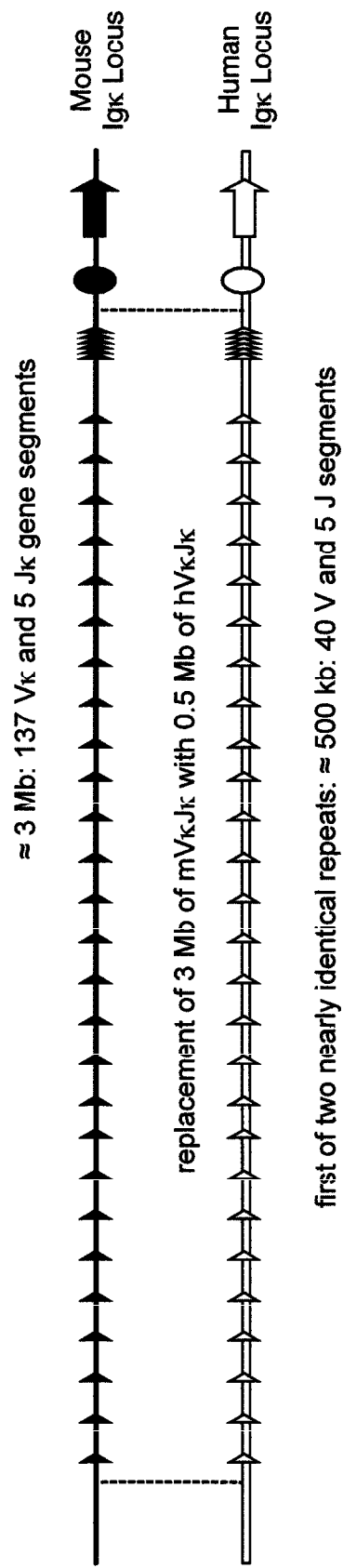


FIG. 1B

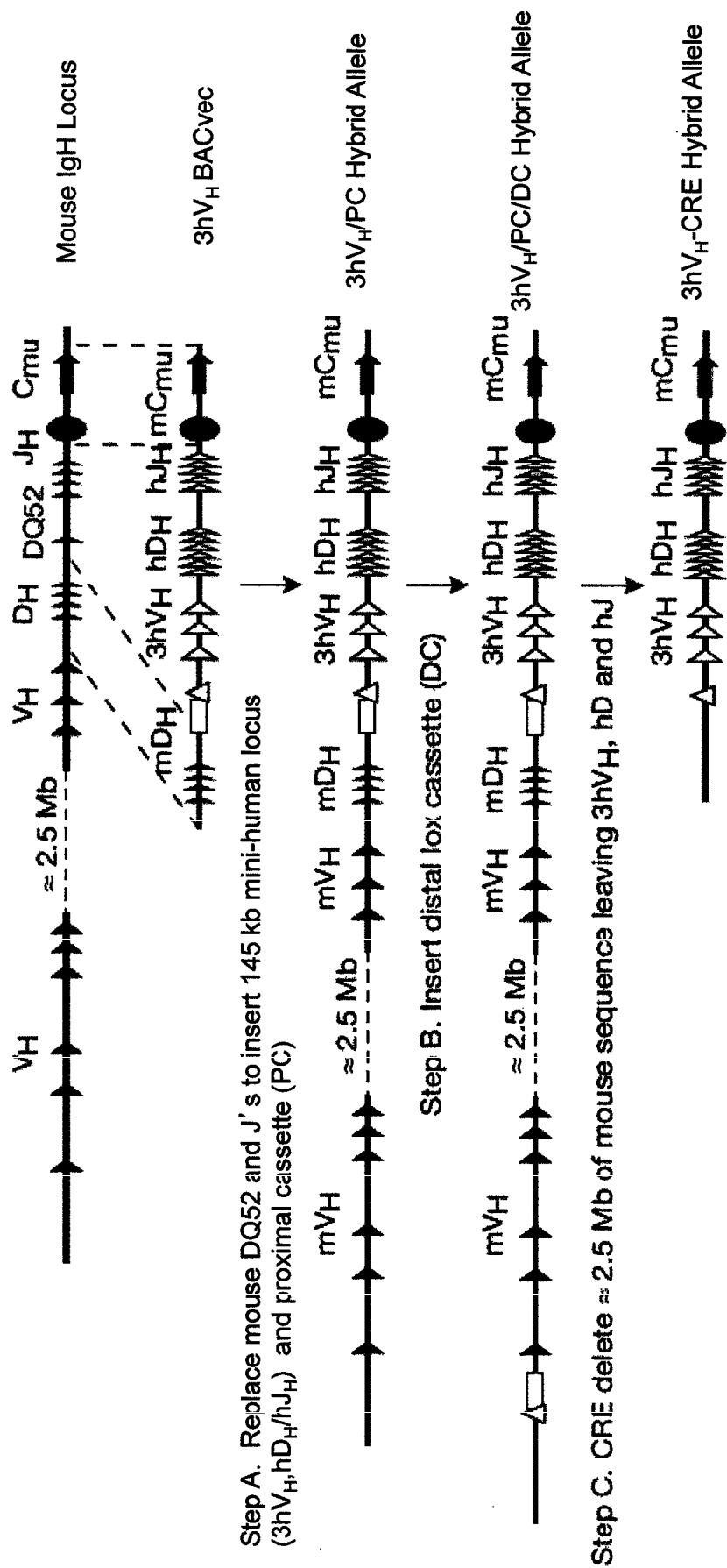


FIG. 2A

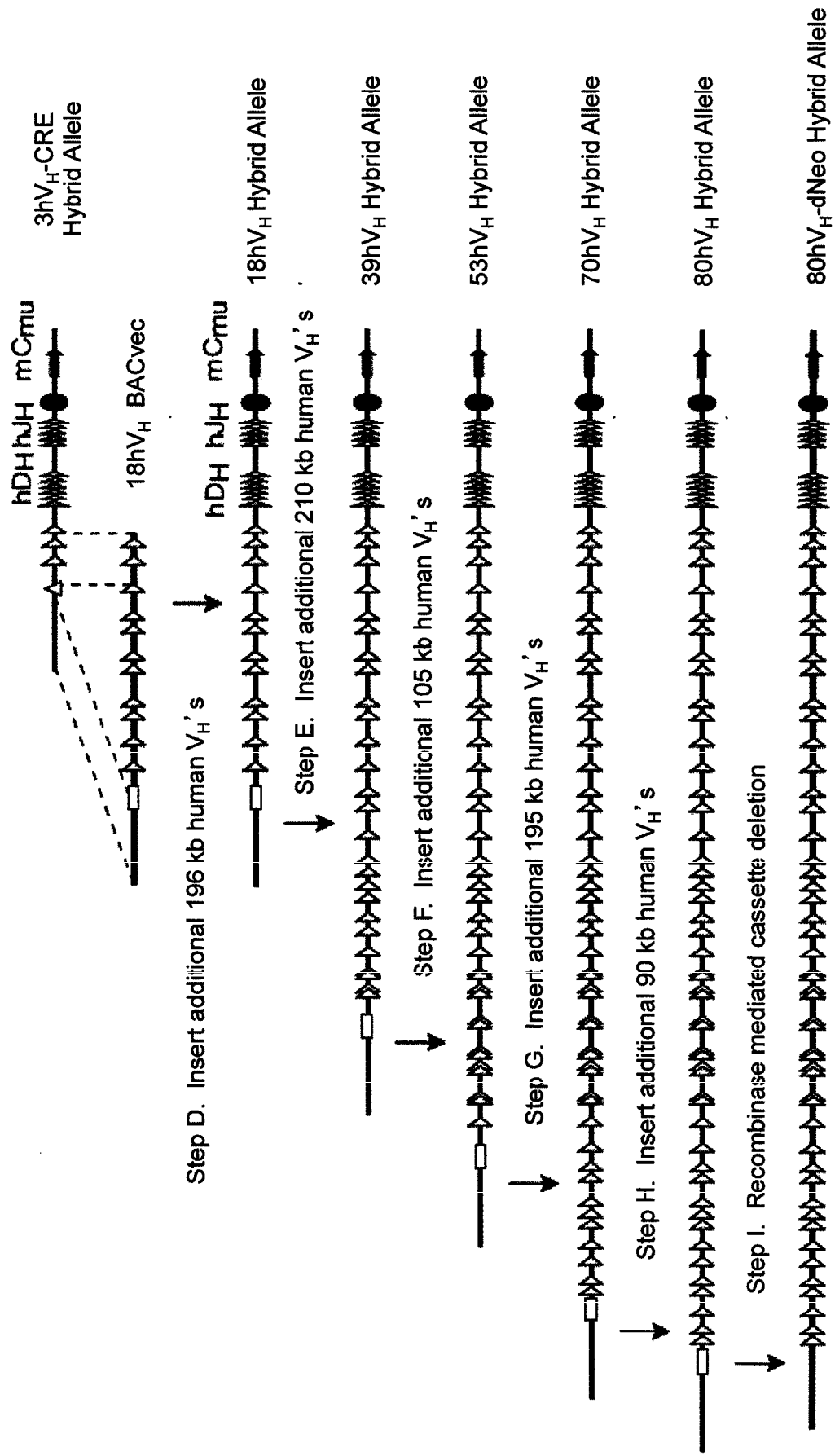


FIG. 2B

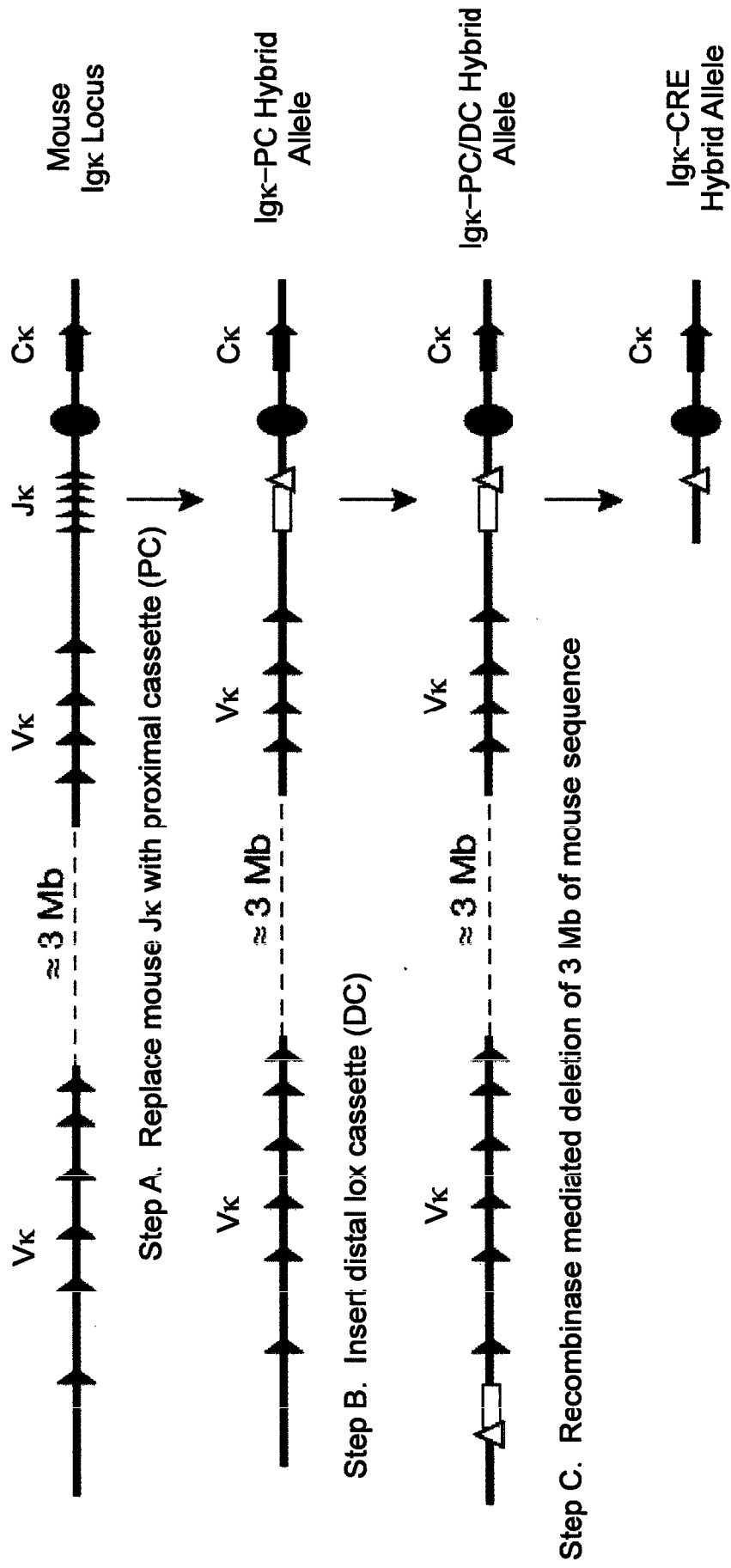


FIG. 2C

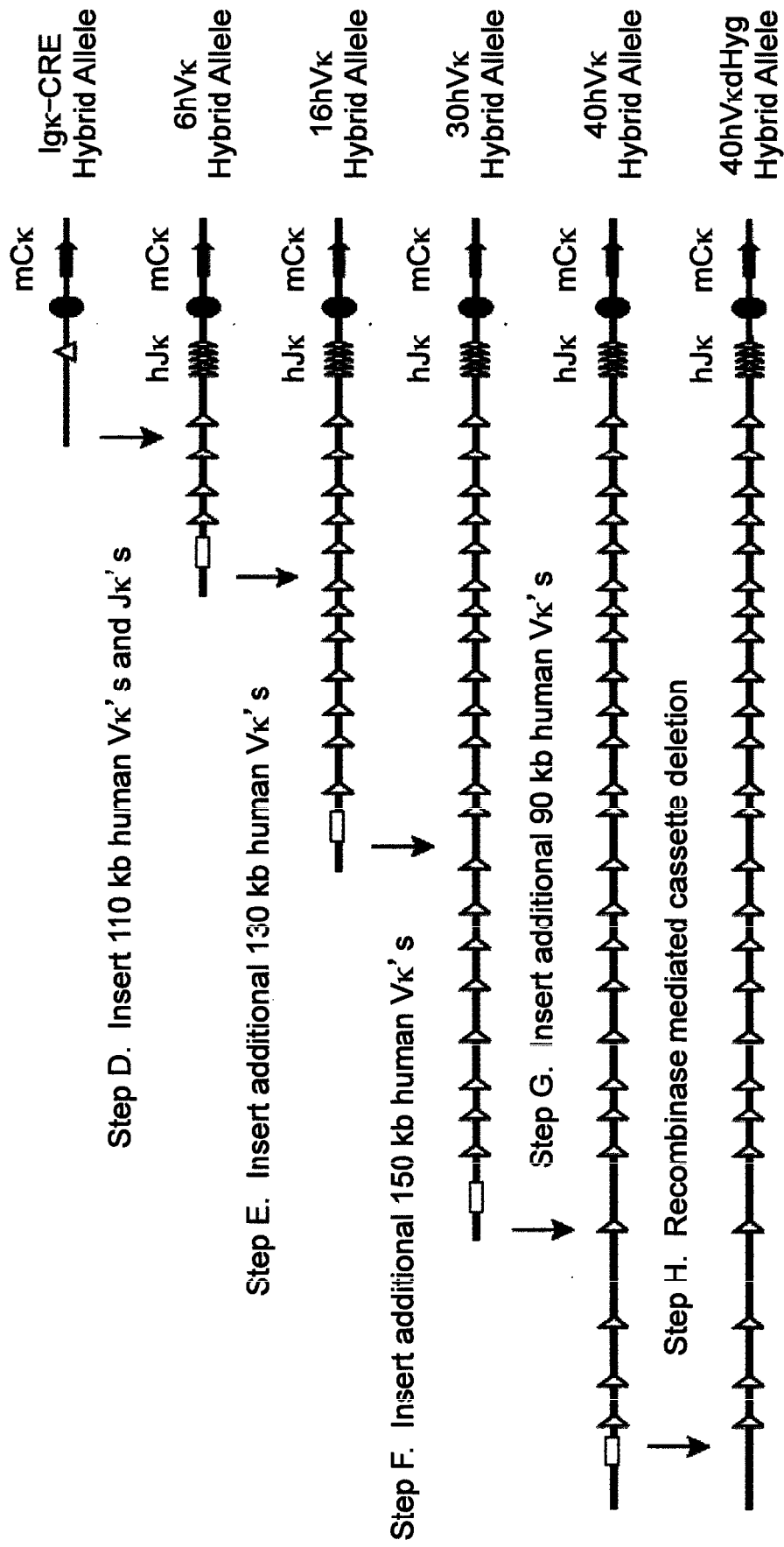


FIG. 2D

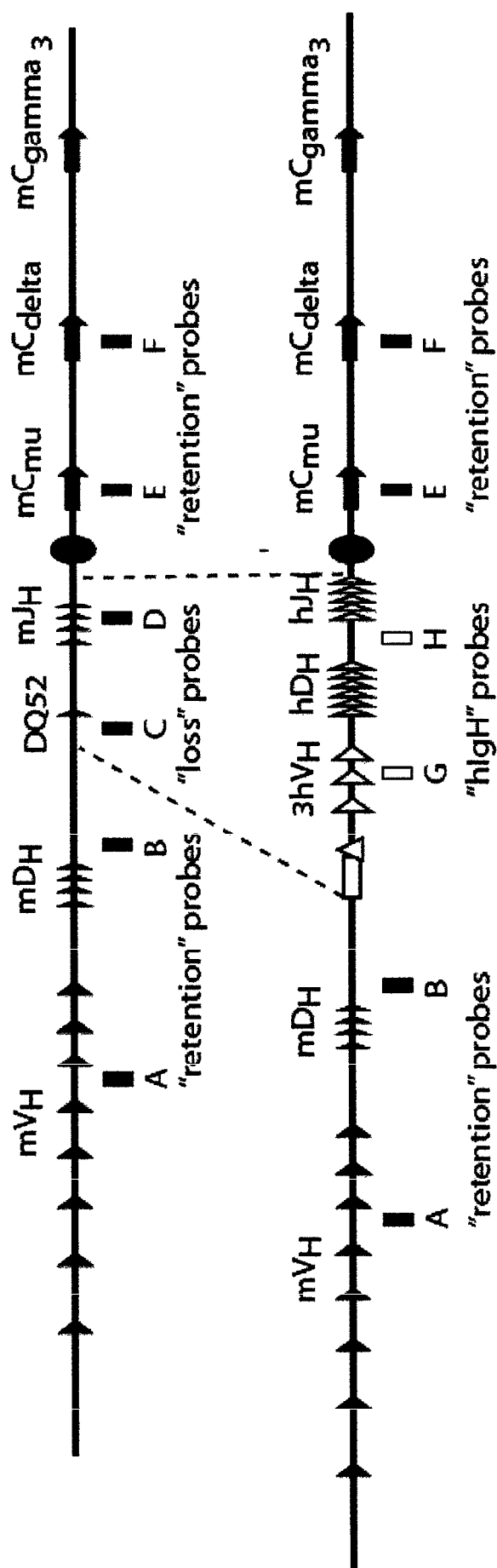


FIG. 3A

		A	B	C	D	E	F	G	H
Parental ES	Theoretical copy number	2	2	2	2	2	2	0	0
	Observed copy number	1.9	1.8	2.1	1.8	1.9	1.8	<0.01	<0.04
Modified ES	Theoretical copy number	2	2	1	1	2	2	1	1
	Observed copy number	1.9	2.4	1.0	1.0	2.0	1.9	+	+

FIG. 3B

	copy number	D	H
WT Mice	Theoretical	2	0
	Observed 1	1.71	< 0.01
	Observed 2	2.07	< 0.01
	Observed 3	2.16	< 0.01
	Observed 4	1.88	< 0.01
Het Mice	Theoretical	1	1
	Observed 1	1.22	1.04
	Observed 2	0.94	1.02
	Observed 3	0.85	0.95
	Observed 4	1.02	1.00
Homo Mice	Theoretical	0	2
	Observed 1	< 0.01	2.37
	Observed 2	< 0.01	2.22
	Observed 3	< 0.01	2.43
	Observed 4	< 0.01	1.93

FIG. 3C

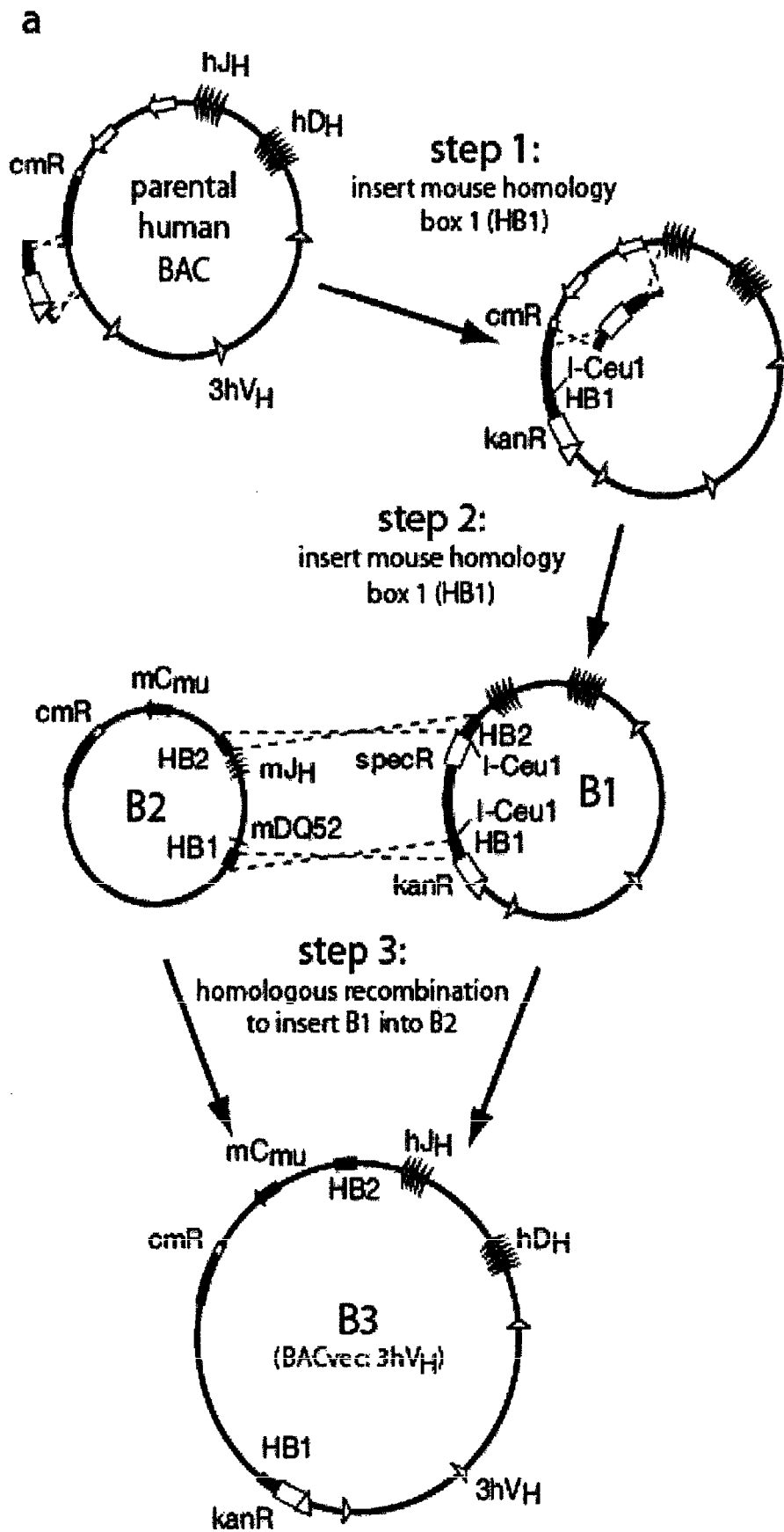


FIG. 4A

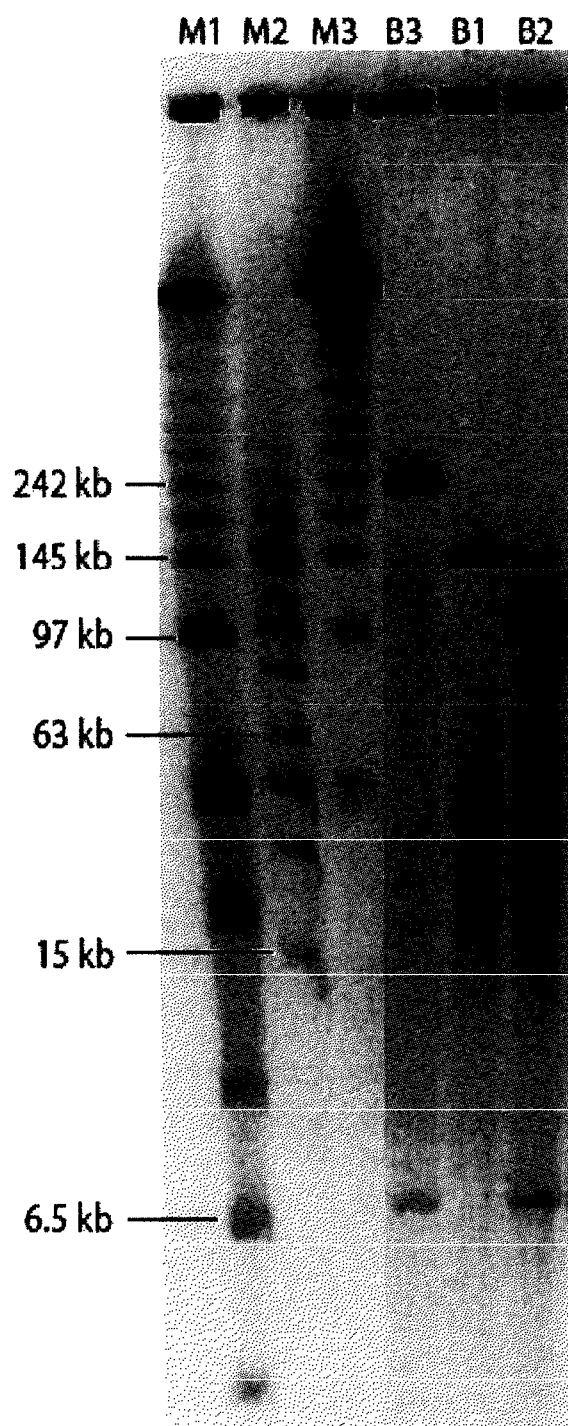


FIG. 4B

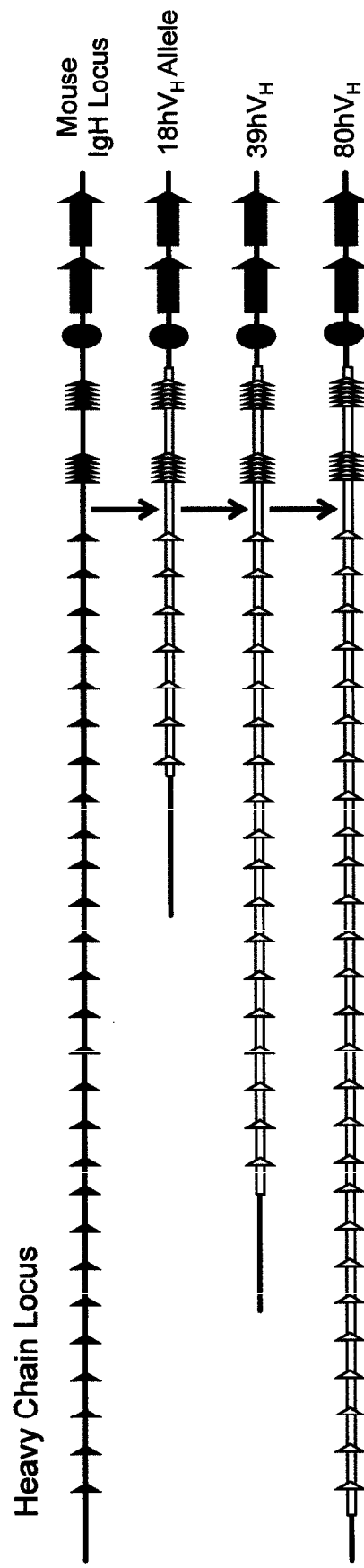


FIG. 5A

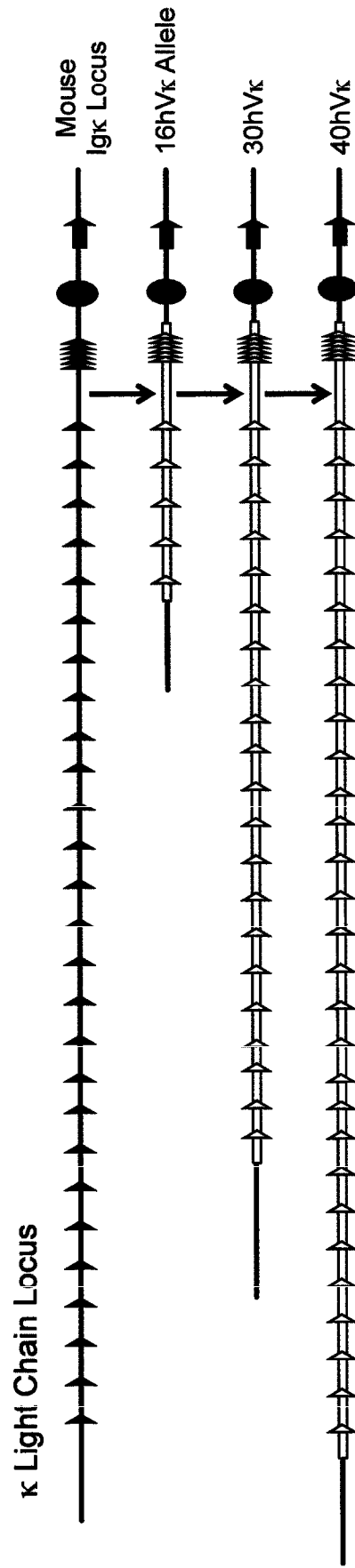


FIG. 5B

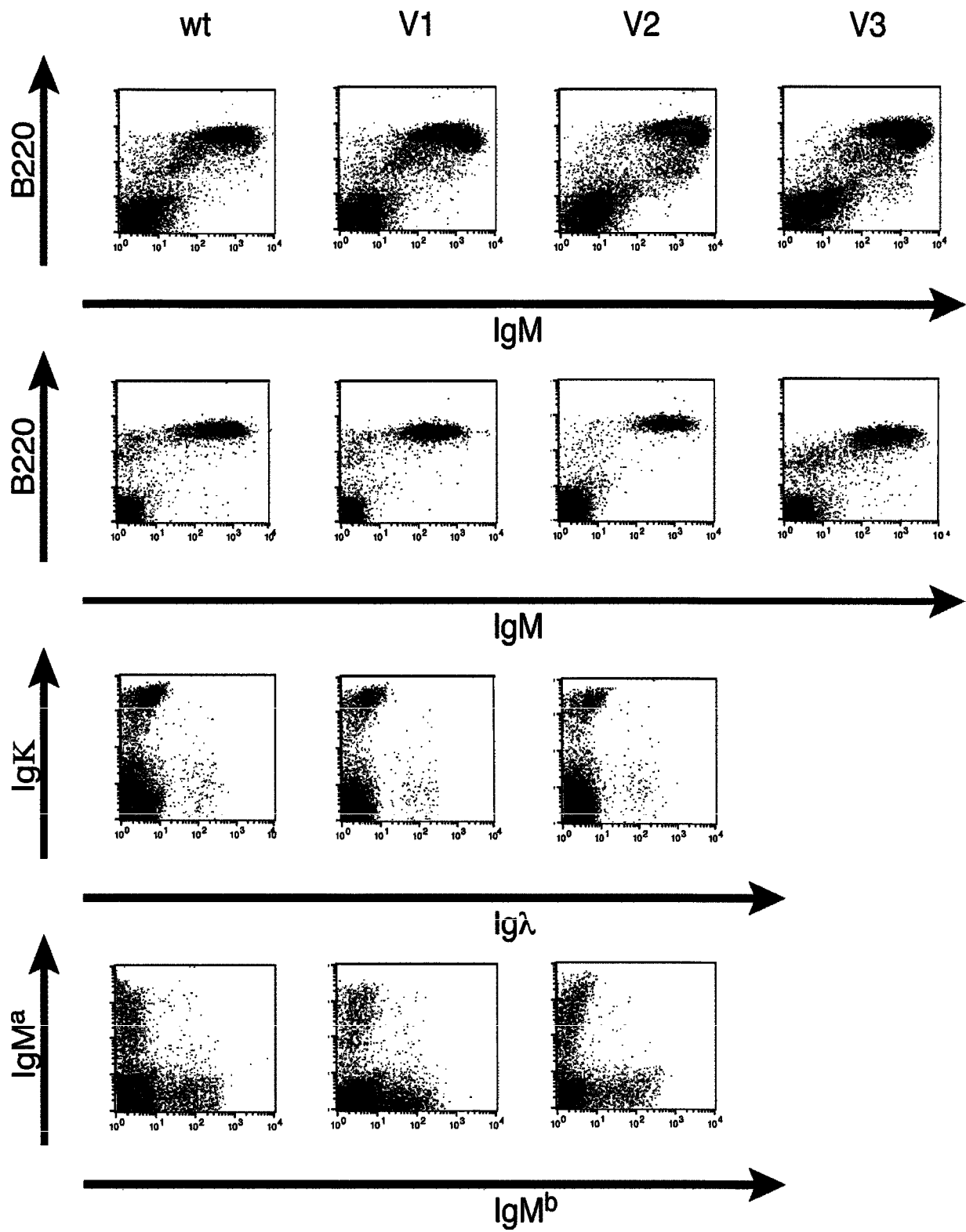


FIG. 6

3'V _H	N	D _H	N	5'J _H
(3-72) GCTAG	(D _H 1-26)	GGTATAGTGGGAGCTACTAC	AGGC	CTTTTGATATC (3)
(3-9) GCAAAG	CCCAGGGG	TAGTGGGgCCTAC	ACCT	ATGCTTTTGATATC (3)
(3-7) GCGAGAGA	G	AGTGGGAGCTACTAC	GAGG	ACTTTGATtTAC (4)
(4-59) GCGAGAG	GGAC	GGTATAGTGGGAaCTACT	CCT	CTTTGACTAC (4)
(3-23) GCGAAA	CC	AGTGGGAGC	C	CTGGTTCGACCCC (5)
	(D _H 1-7)	GSTATAACTGGAAC		
(4-34) GCGAGAGG	AGGAG	GSTATAACTGGAAC	CGA	ATGCTTTTGATATC (3)
(1-2) GCGAGAG	GA	TATAACTGGA	TGG	ACTACTTTGACTAC (4)
(3-23) GCGAAAGA	G	GTATAACTGGAACcAC	CCC	TACTTTGACTAC (4)
(3-7) GCGAGAGA	GGGA	ATAACTGGAAC	TTTCCTTTT	CTTTGACTAC (4)
(4-59) GCGAG	GG	TATAACTGGAAC	CTCTGGG	TTTGACTAC (4)
(4-39) GCGAGA		TAACTGGAAC		CTTTGACTAC (4)
	(D _H 3-10)	GTATTACTATGGTTCGGGGAGTTATTATAAC		
(3-30) GCGA	AAAGGC	TACTATGGTTCGGGGAG	CTC	TTGACTAC (4)
(1-2) GCGAGAGA		TATTACTATGGTTCGGGGAGTTATTATAAC	GAAGGT	CTACGGTATGGACGTC (6)
	(D _H 6-6)	GAGTATAGCAGCTCGTCC		
(1-2) GCGAGAGA	GA	GTATAGCAG	TG	CTTTGACTAC (4)
(3-48) GCGAGA	GG	GAGTATAGCAGCTCGT	CTCGGG	TGACTAC (4)
(3-13) GCAAAGAGA		ATAGgAGCTCGcCC		TACTTTGACTAC (4)
	(D _H 7-27)	CFAACTGGGGA		
(3-7) GCGAGAGA	TCT	TGGGGA	AGG	CTAC (4)
(3-15) ACCAC	CCA	TAACTGGGGA	GGG	TTTGACTAC (4)
(3-48) GCGAGA	GATA	GGGGA		CCg (5)

FIG. 7A

3'VK	N	5' JK
(1-6) CAACAGAGTTA+AGTACCCCTCC	GGA	GACG (1)
(1-9) CAACAGCTTAATAGTTACCCCTC		GGACG (1)
(1-9) CAACAGCTTAATAGTTACC		ATTCACT (3)
(1-9) CAACA+tTTAATAGTTACCC		GCTCACT (4)
(3-15) CAGCAGTATAATAACTGGCCTC		TCACT (4)
(1-17) CTACAGCATAATAGTTACCC		GTGGACG (1)
(1-17) CTACAGCATAATAGTTACCCCTC		GGACG (1)
(3-20) CAGCAGTATGGTAGCTCACCTC		GGACG (1)
(2-30) ATGCAAGGTACACACTGGCC		GTGGACG (1)
(2-30) ATGCAAGGT+CACACTGGCC		GTACACT (2)
(2-30) ATGCAAGGTACACACTGGCC		GCTCACT (4)
(1-33) CAACAGTATGATAATCTCCCTCC		CACT (3)
(1-33) CAACAGTATGATAATCTCCC		ATTCACT (3)
(1-33) CAACAGTATGATAATCTCCC	CG	TCACT (4)
(1-33) CAACAGTATGATAATCTCCC		GATCACC (5)
(1-37) CAACGGAtTTACAATGCC	GA	CACC (5)
(1-39) CAACAGAGTTACAGTACCC	CA	TGTACACT (2)
(1-39) CAACAGAGTTACAGTACCCCTC		TCACT (4)
(1-39) CAACAGAGTTACAGTACTCCTCC		CACT (4)

FIG. 7B

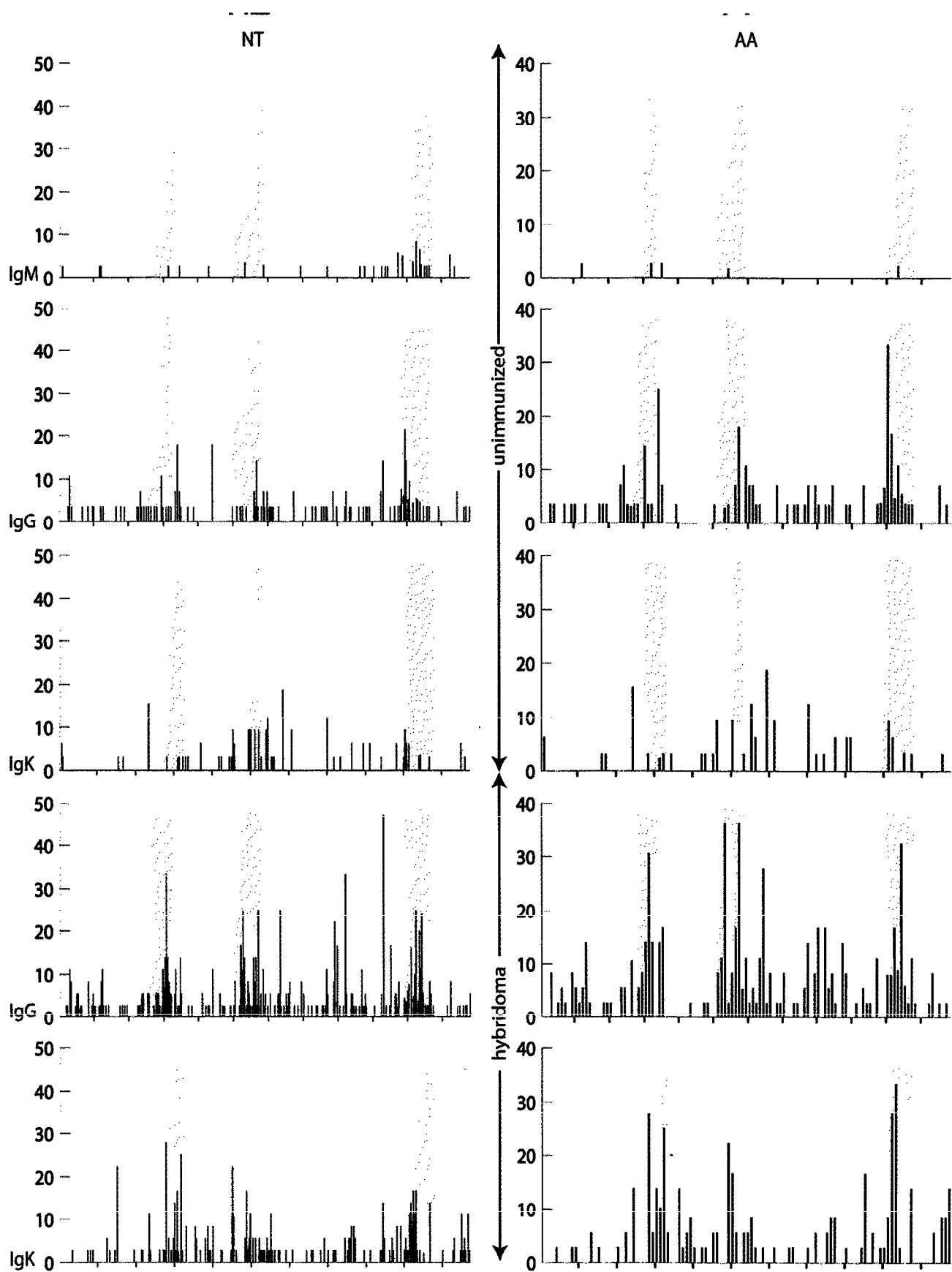


FIG. 8

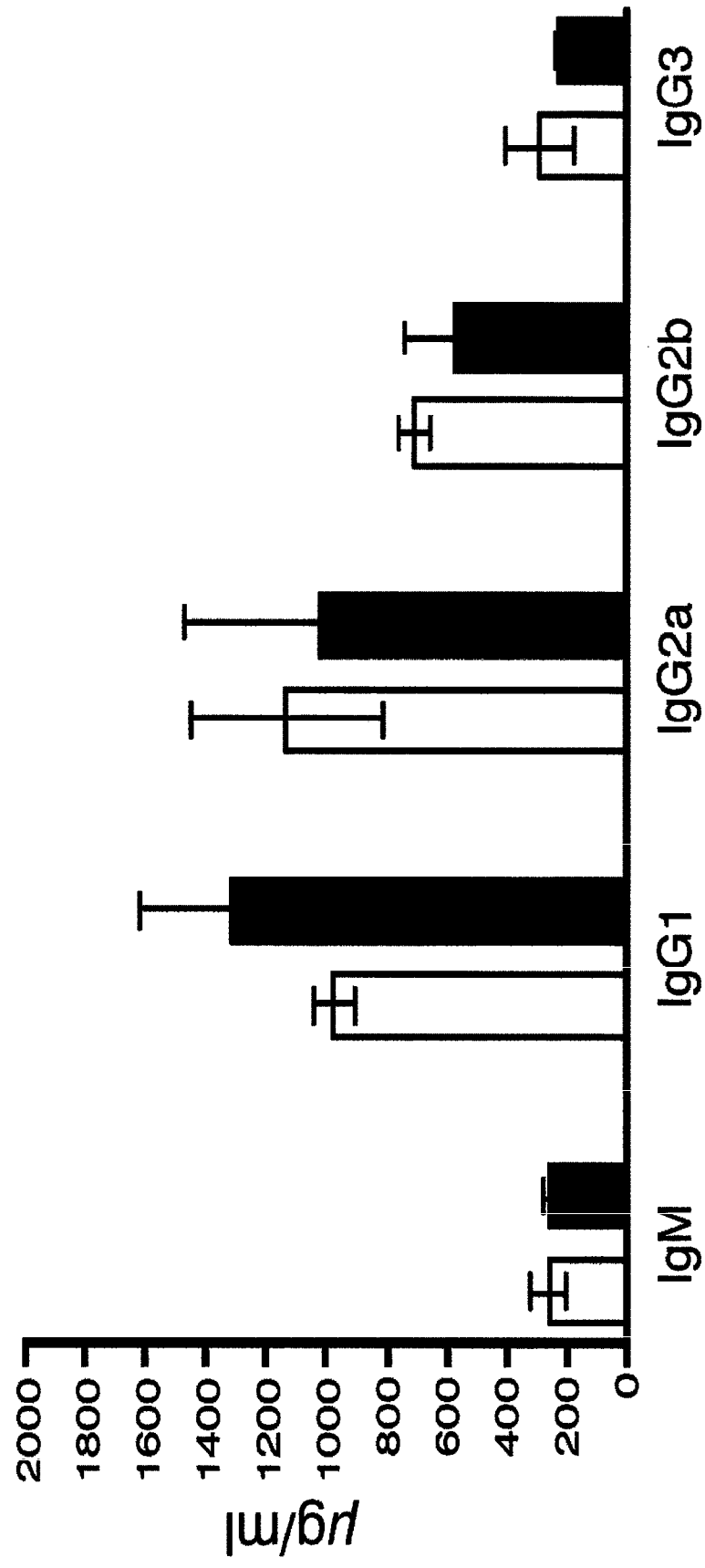


FIG. 9A

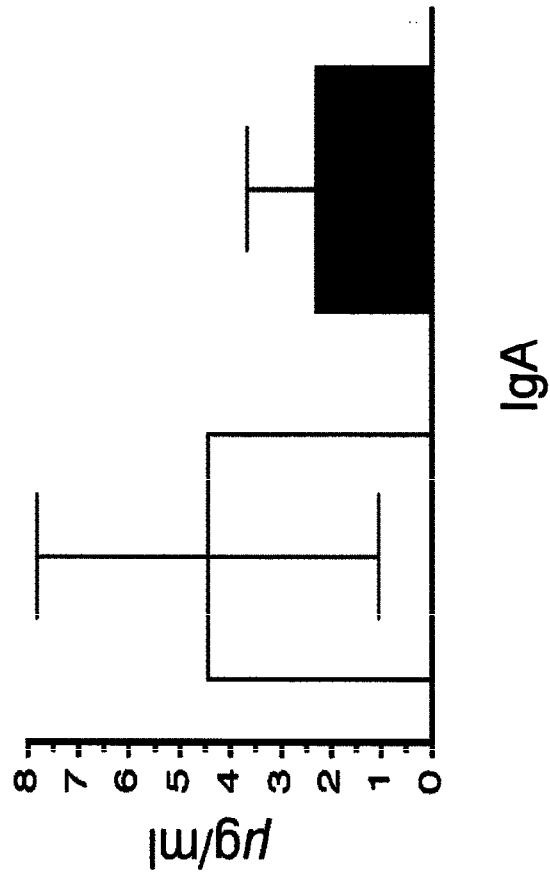


FIG. 9B



FIG. 9C

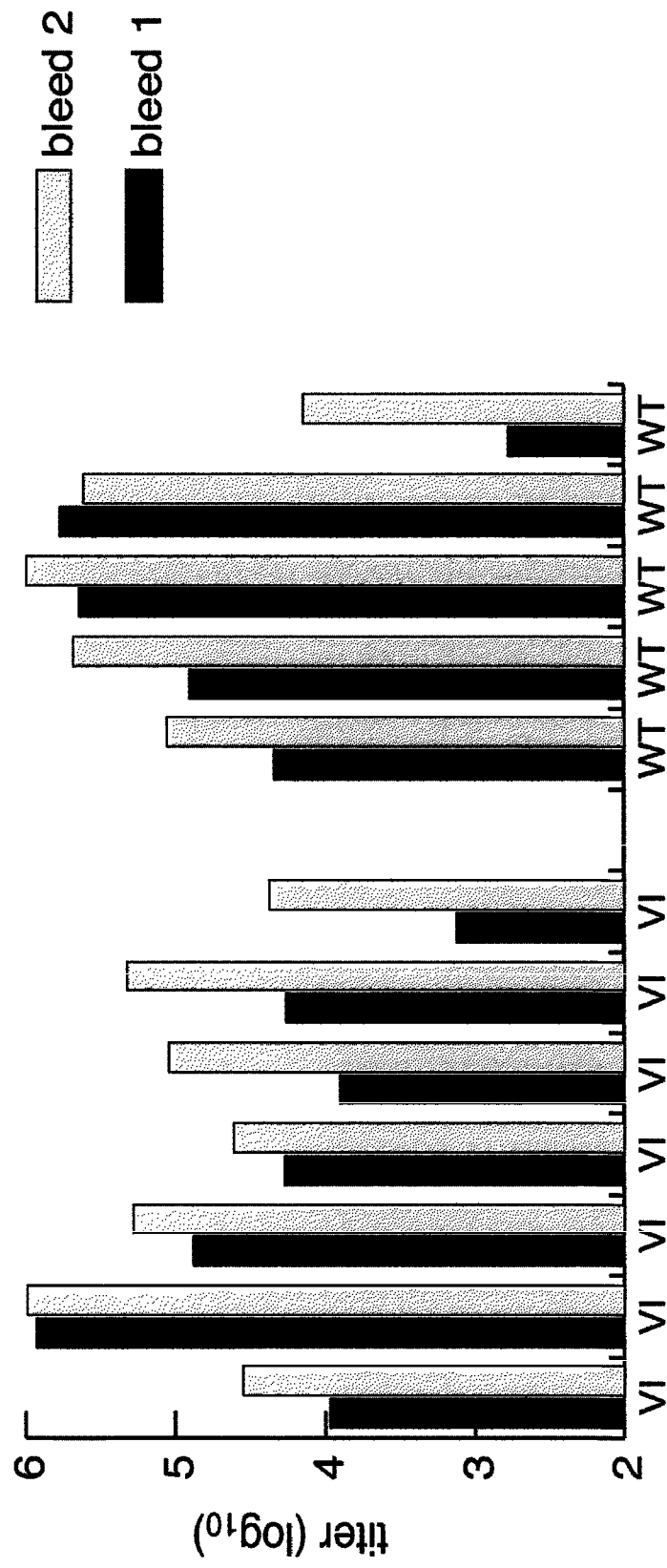


FIG. 10A

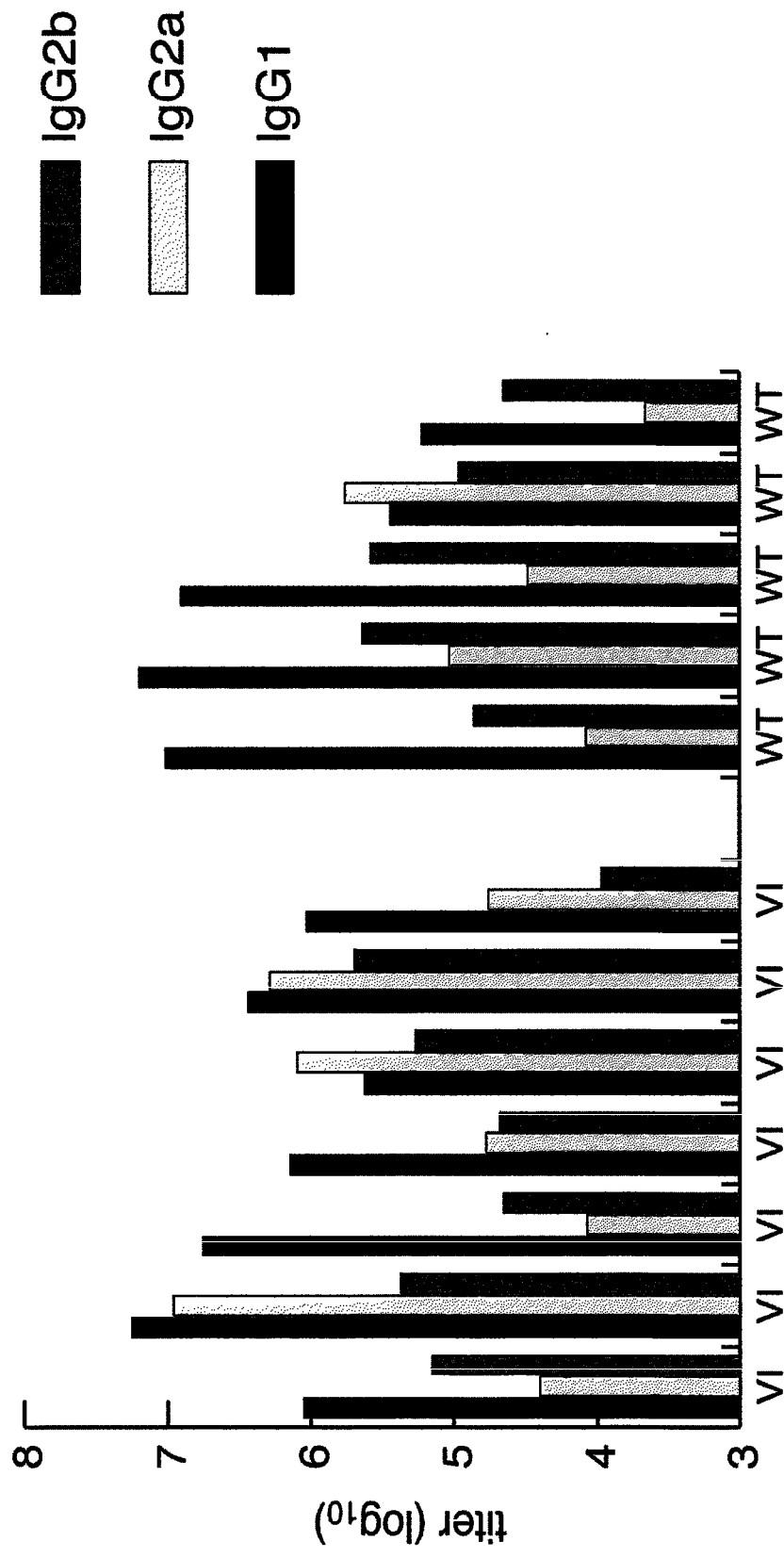


FIG. 10B

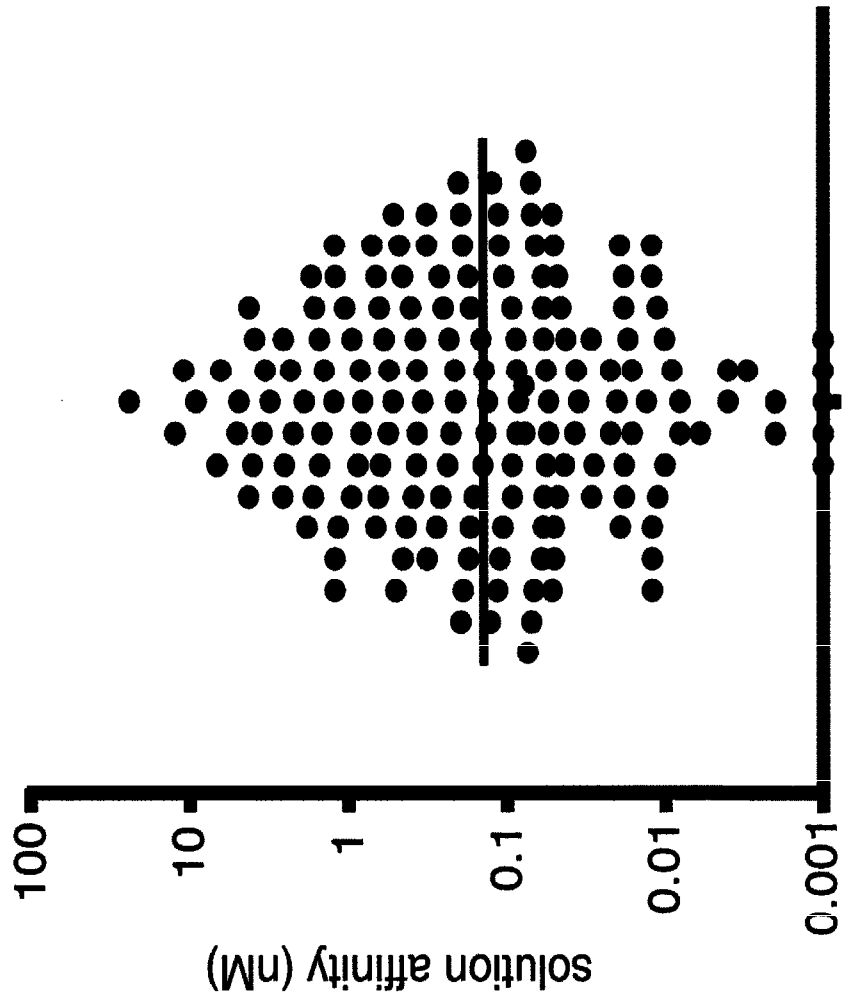


FIG. 11A

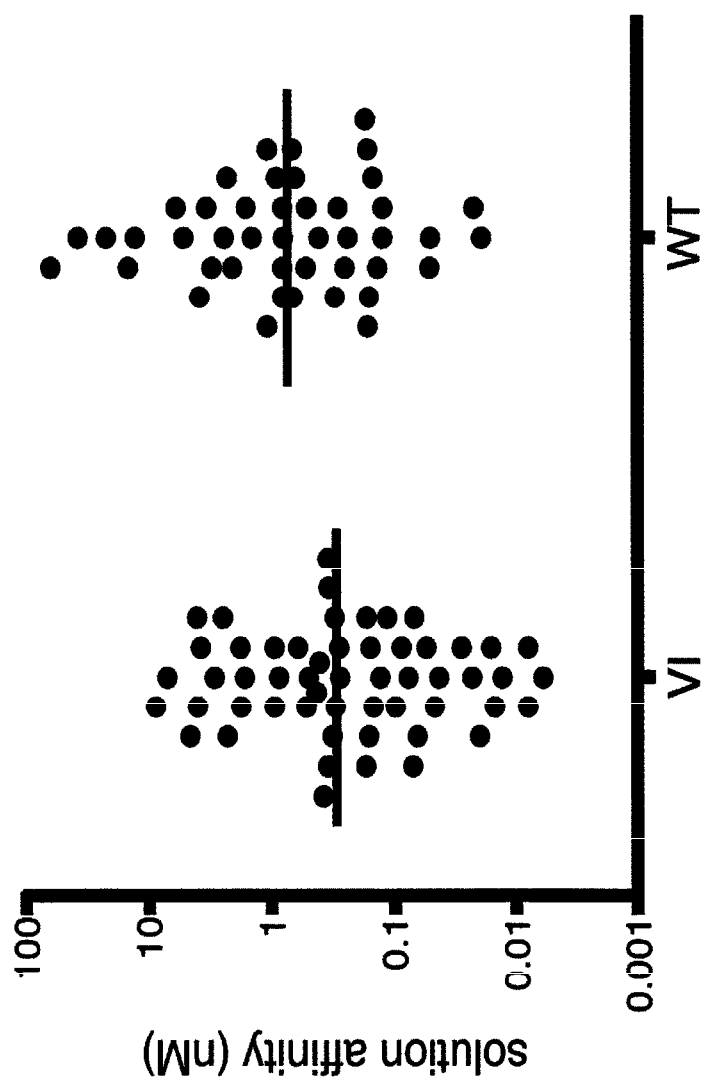


FIG. 11B

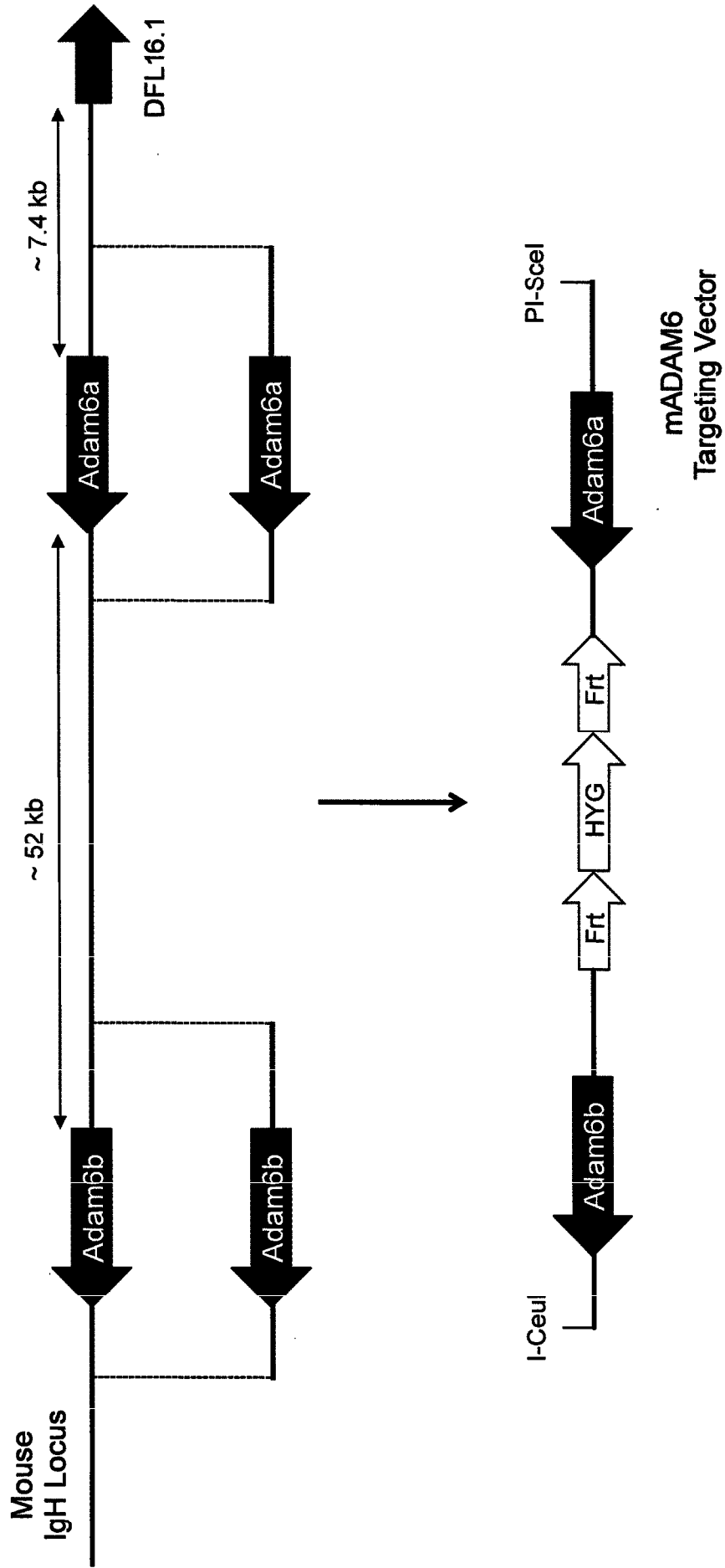


FIG. 12

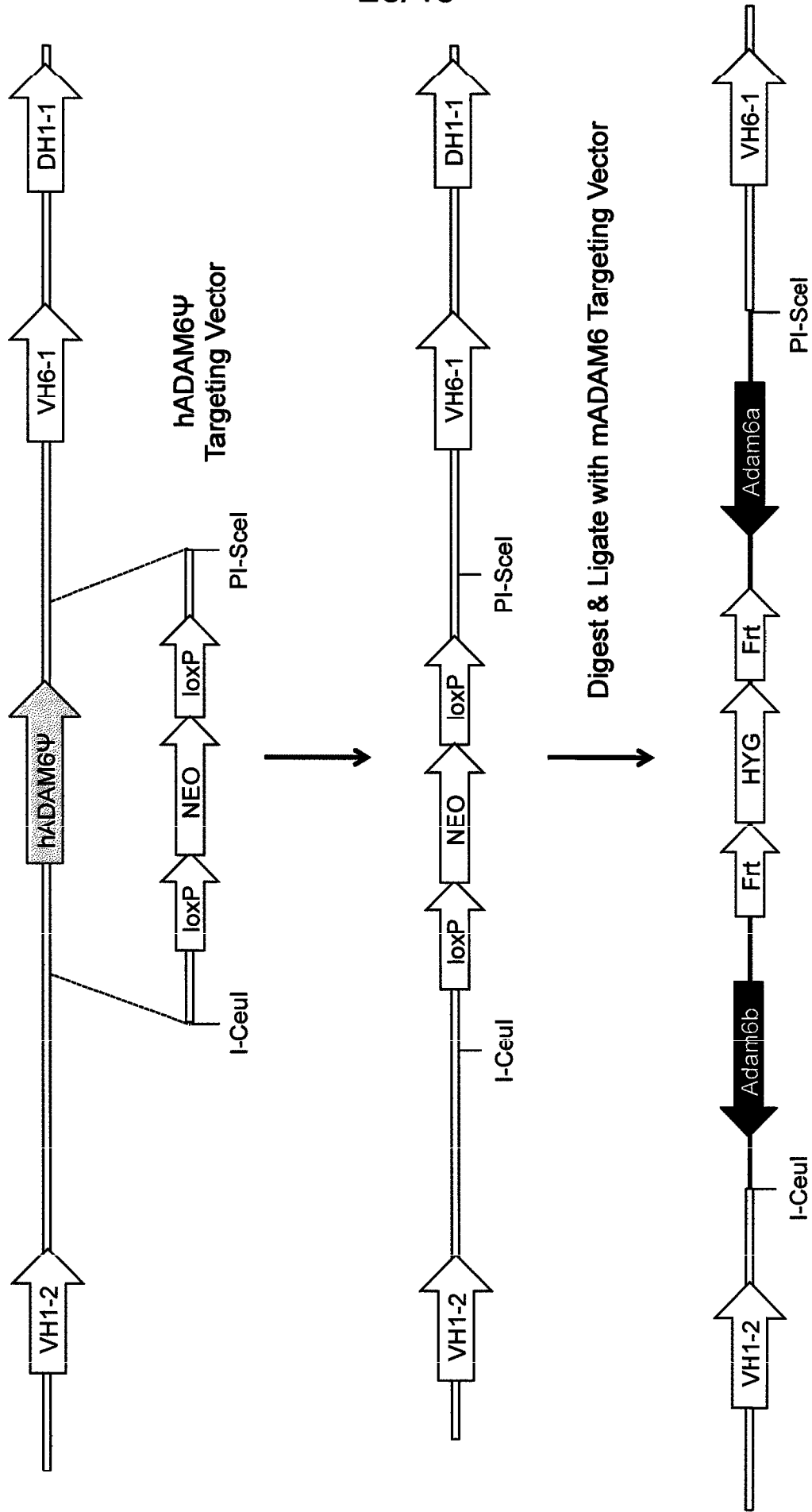


FIG. 13

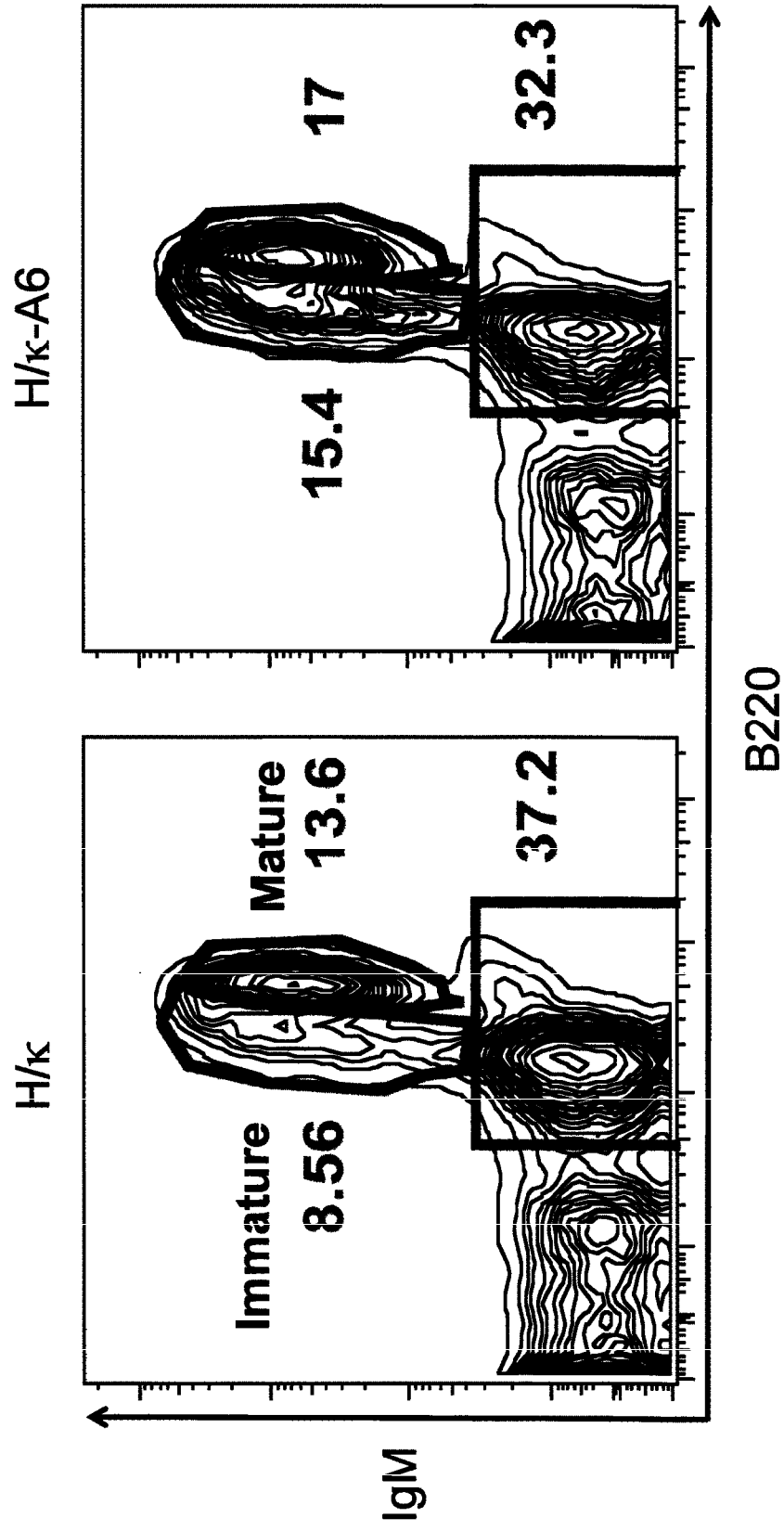


FIG. 14A

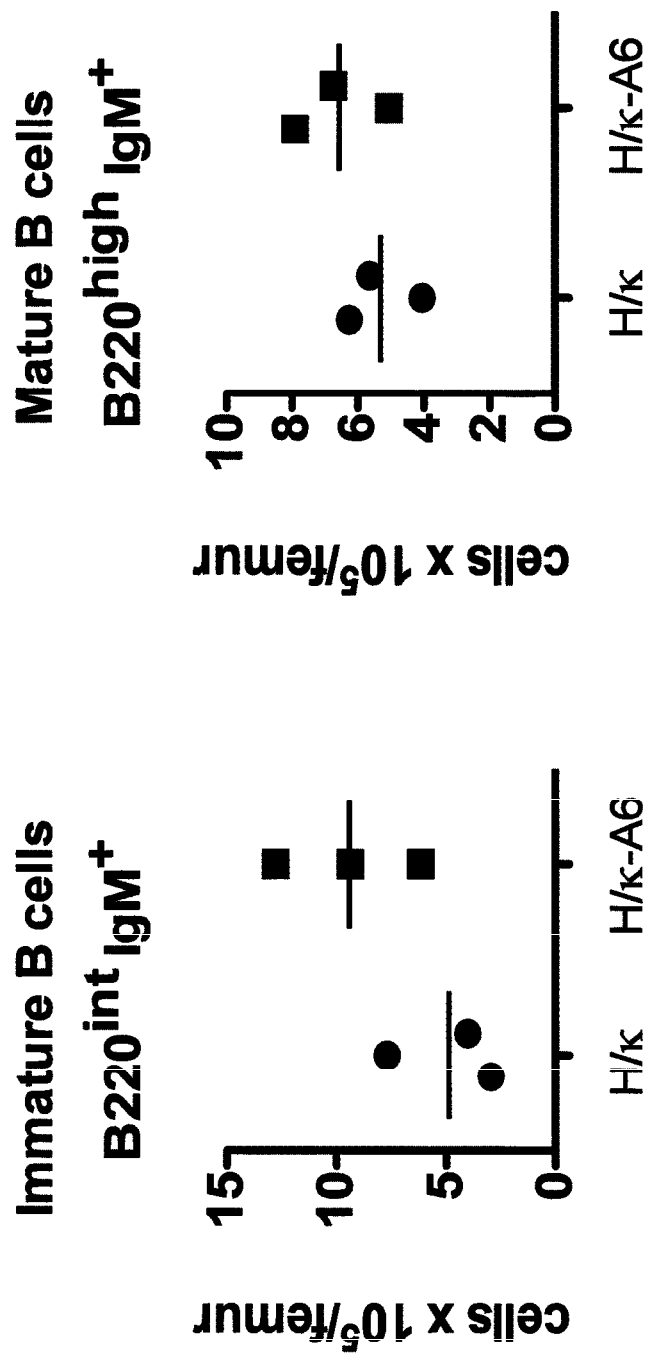


FIG. 14B

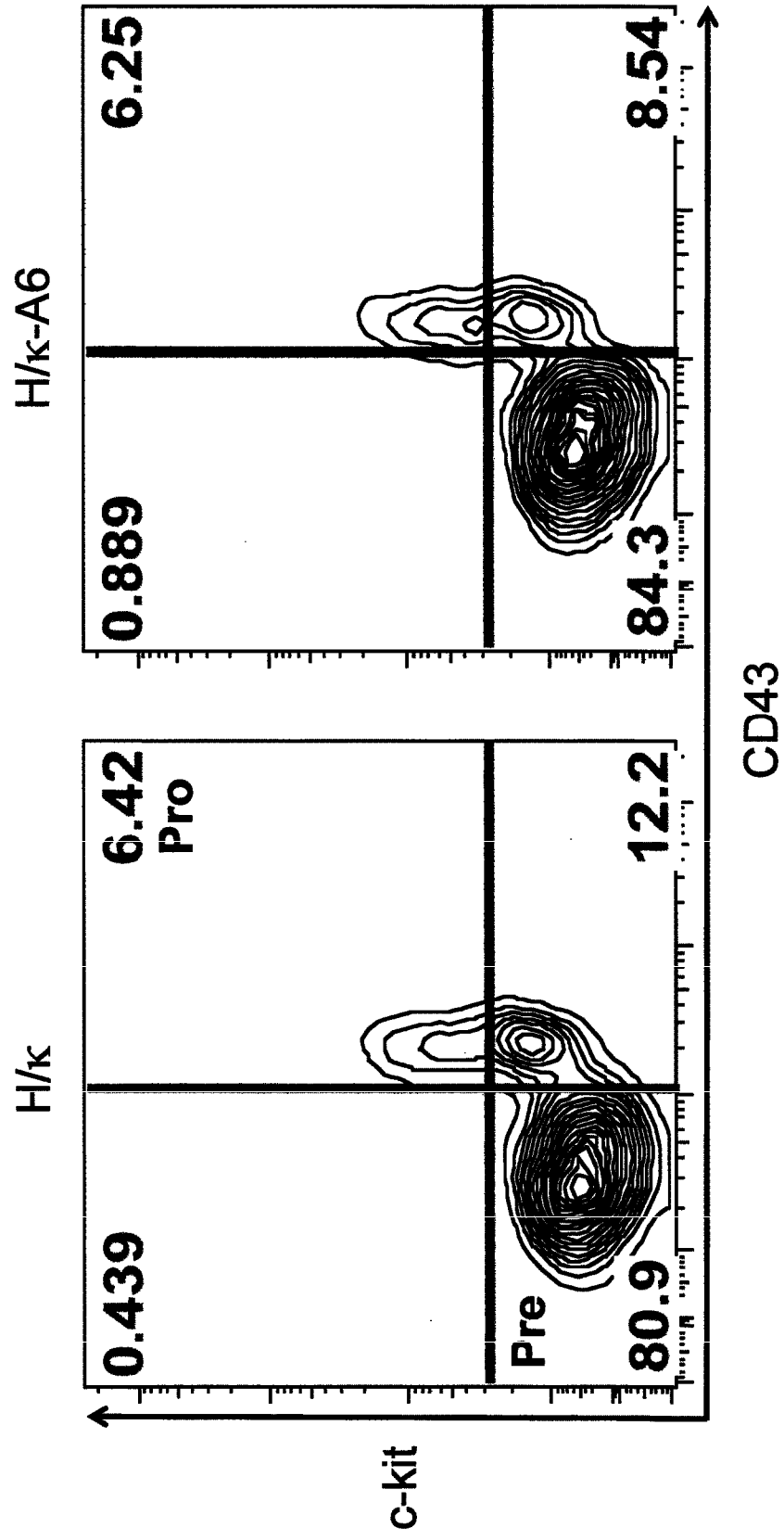
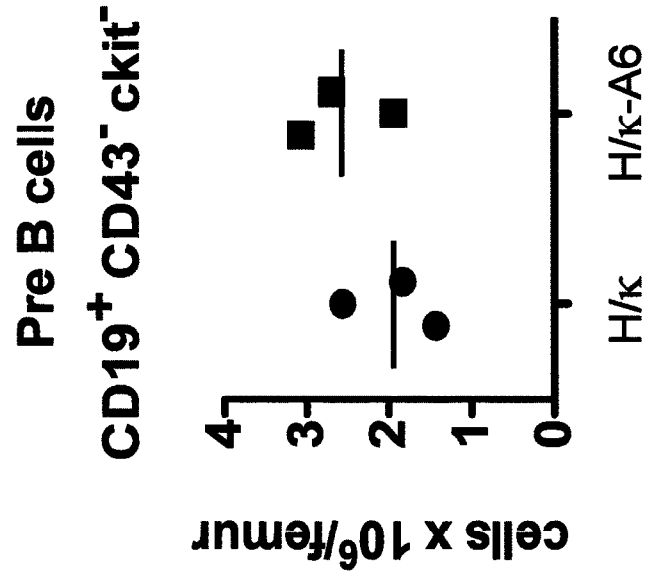
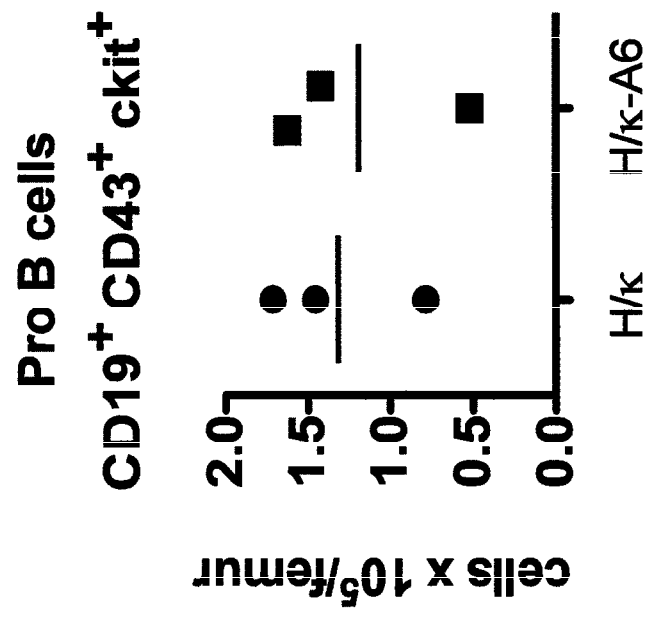


FIG. 15A



30/46

FIG. 15B

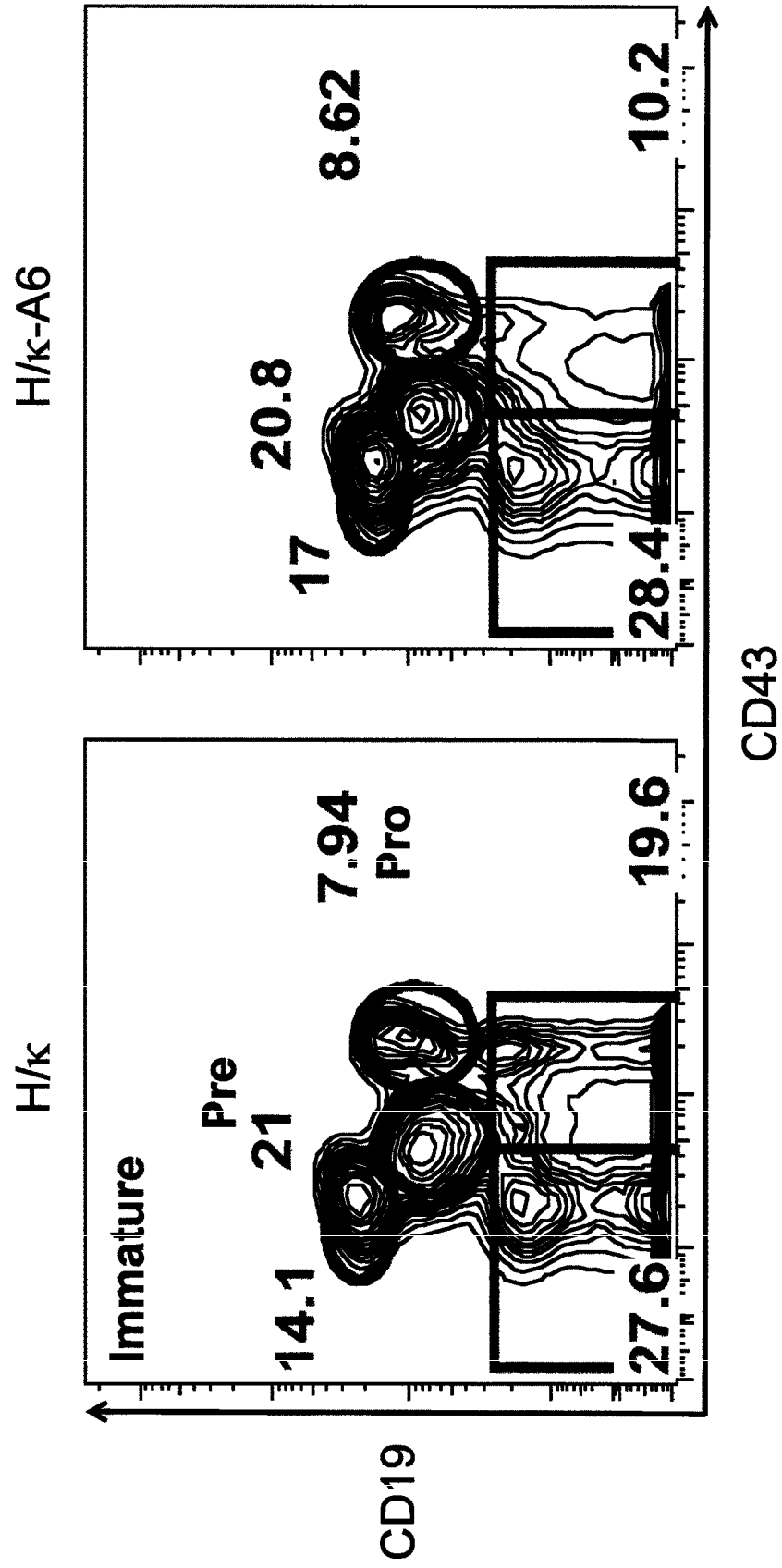


FIG. 16A

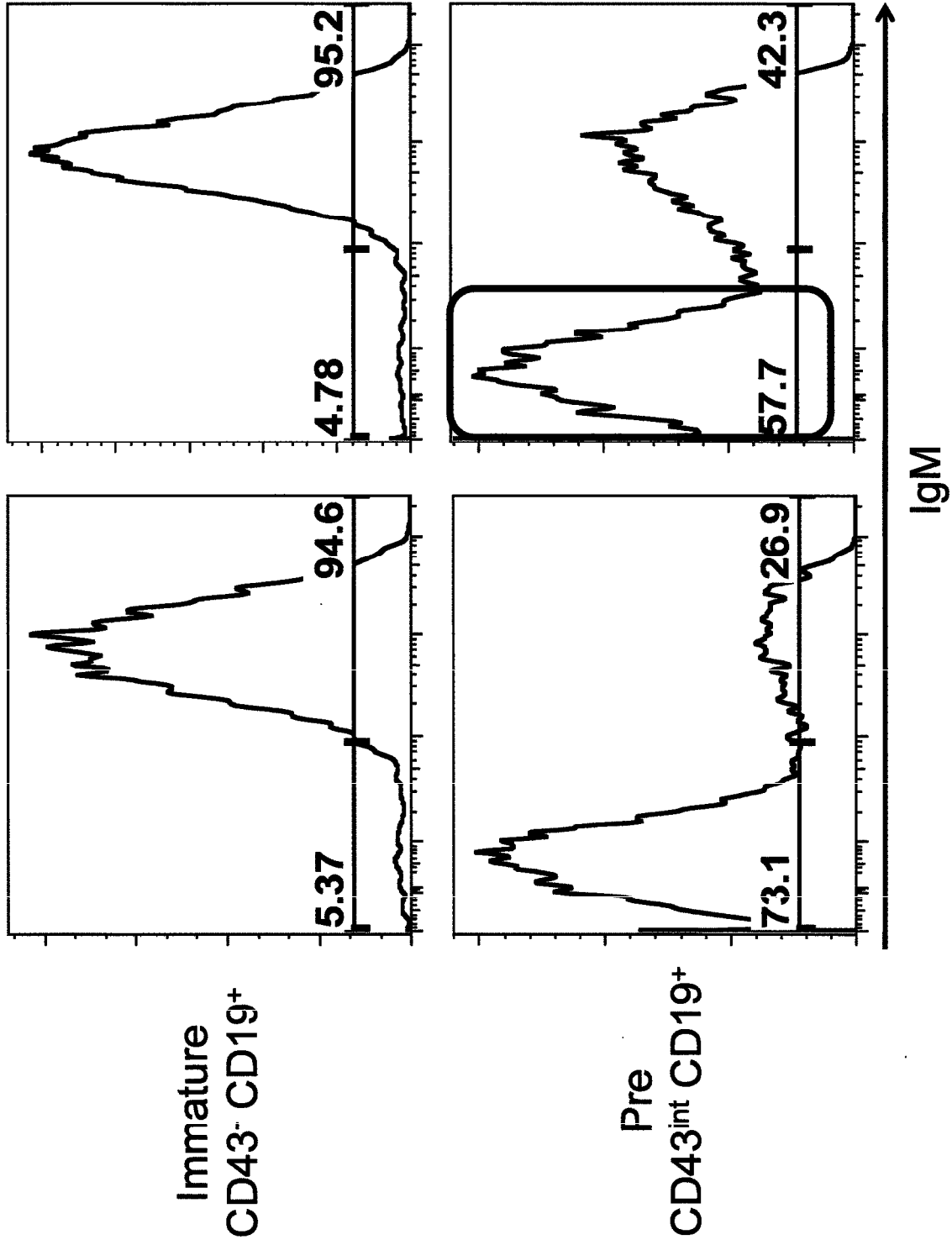


FIG. 16B

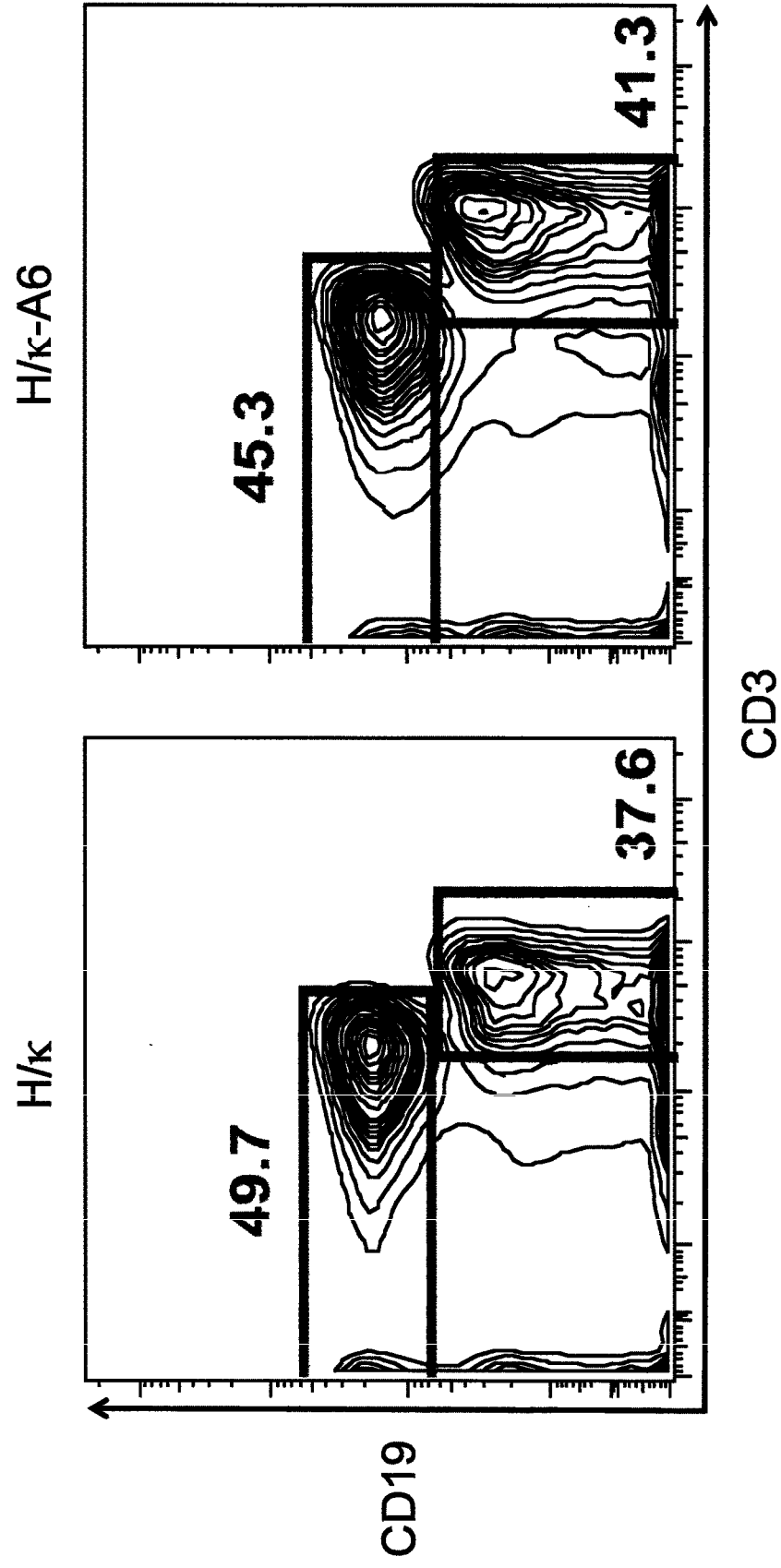


FIG. 17A

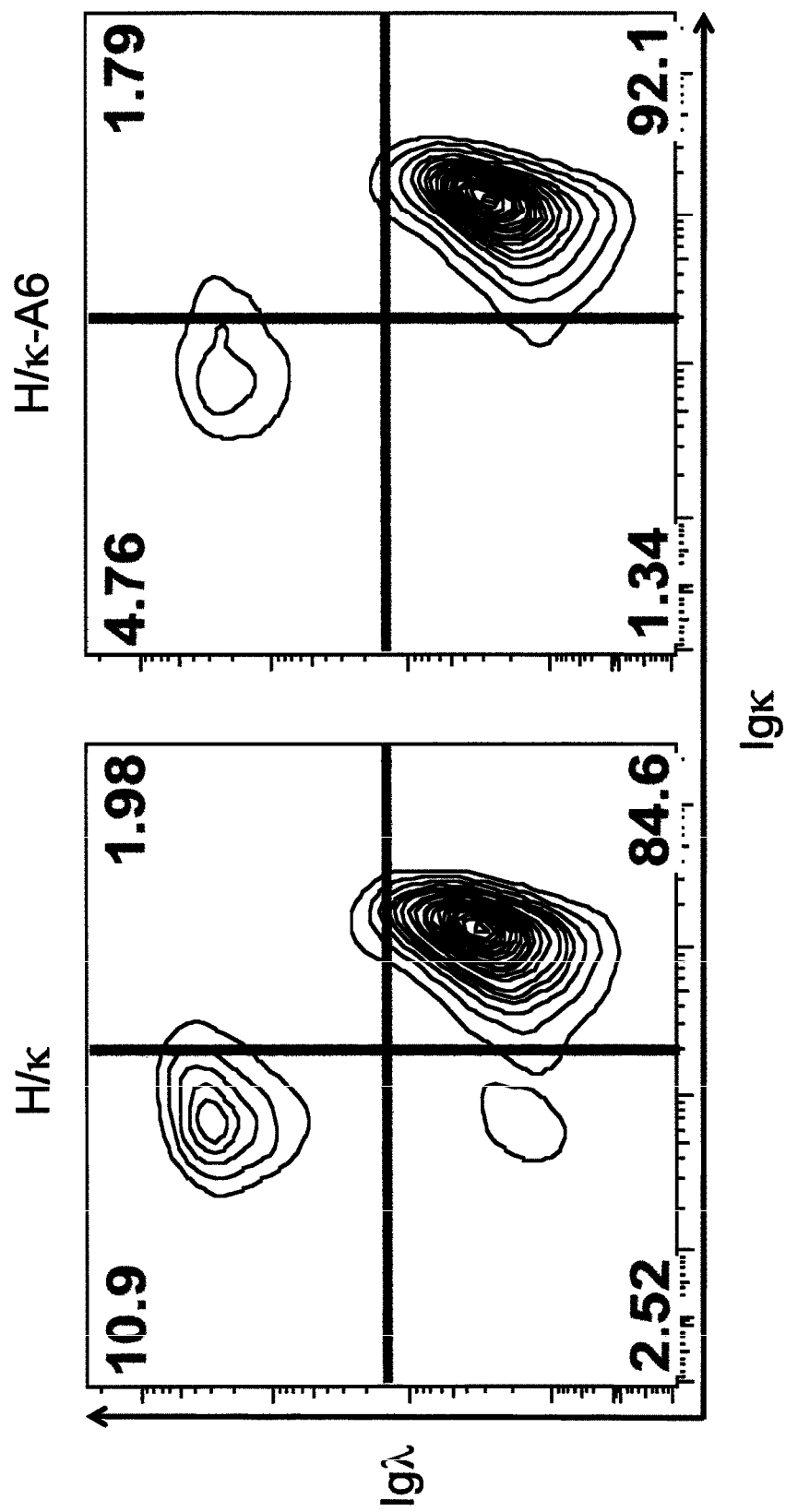
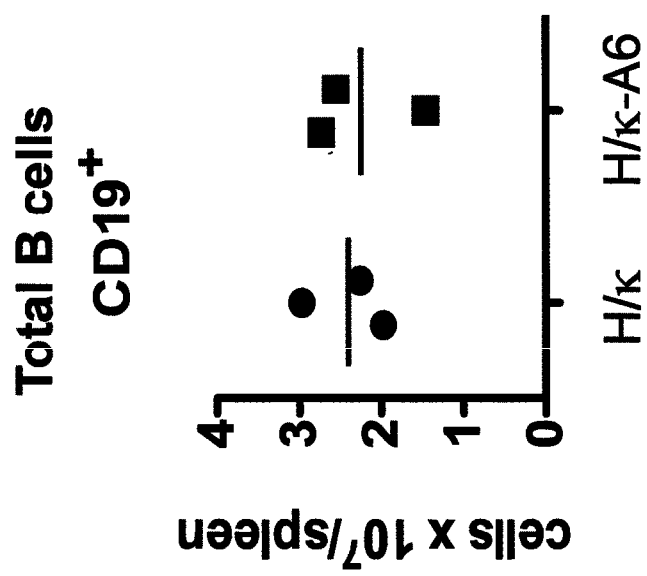


FIG. 17B



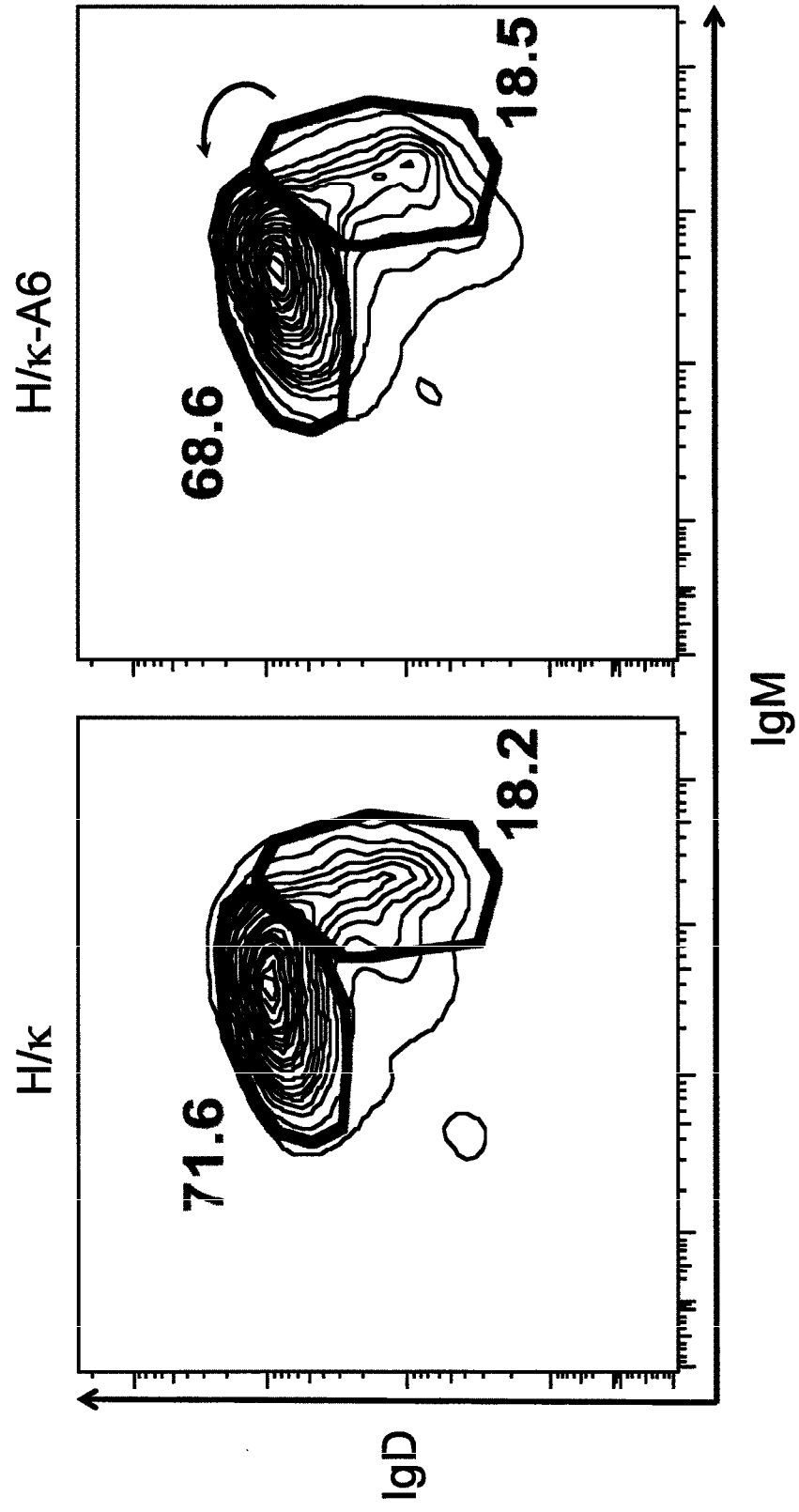


FIG. 18A



FIG. 18B

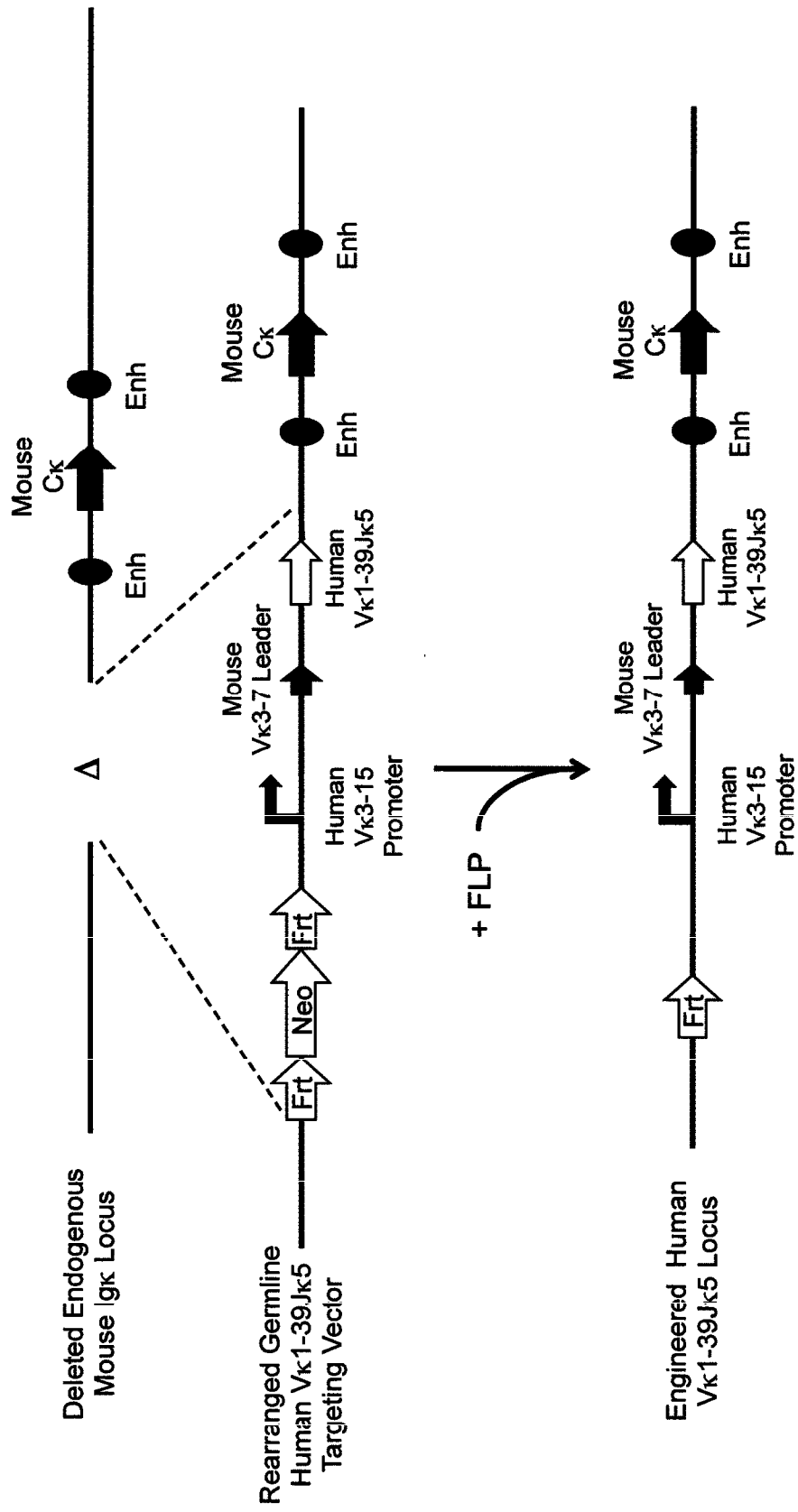


FIG. 19

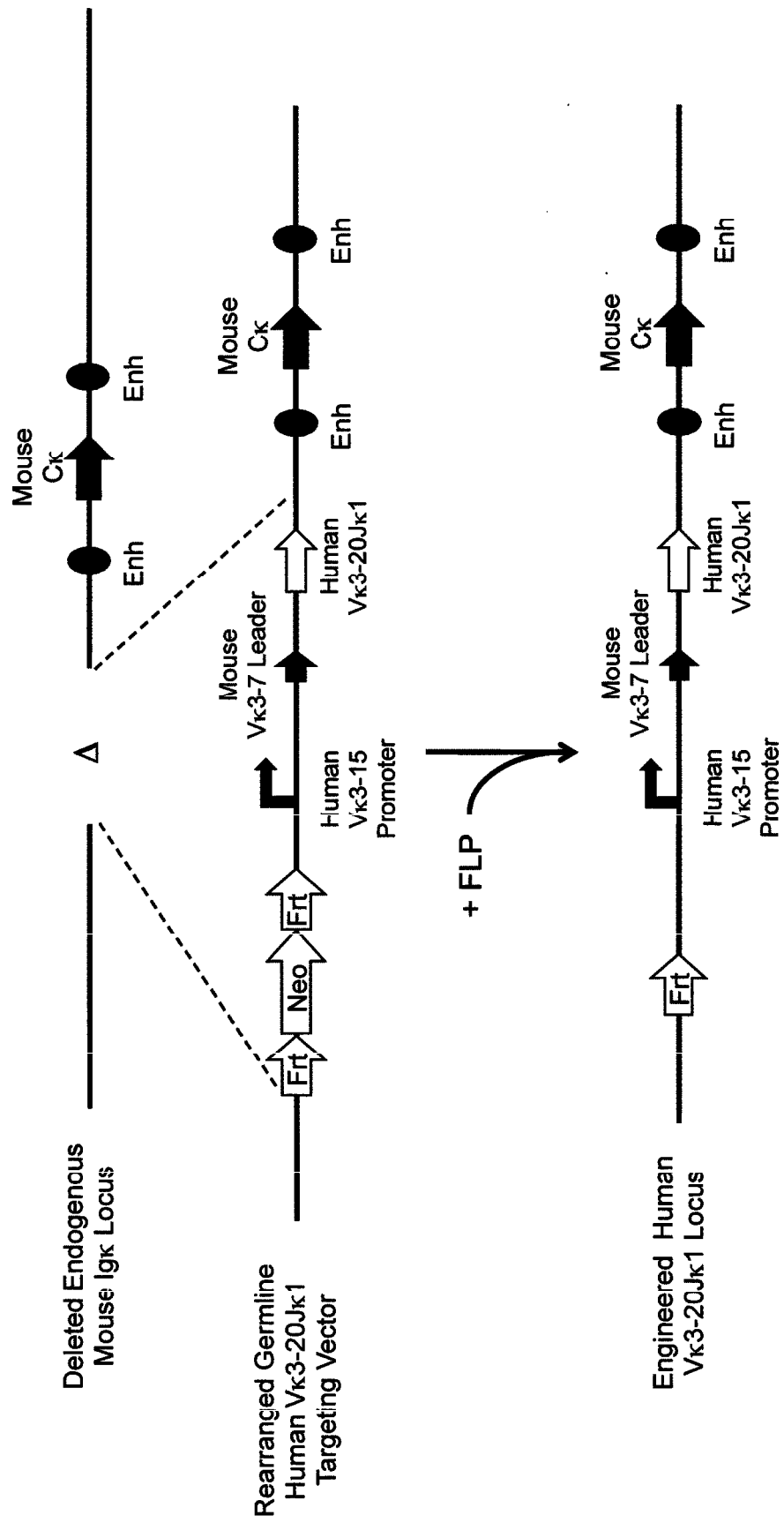


FIG. 20

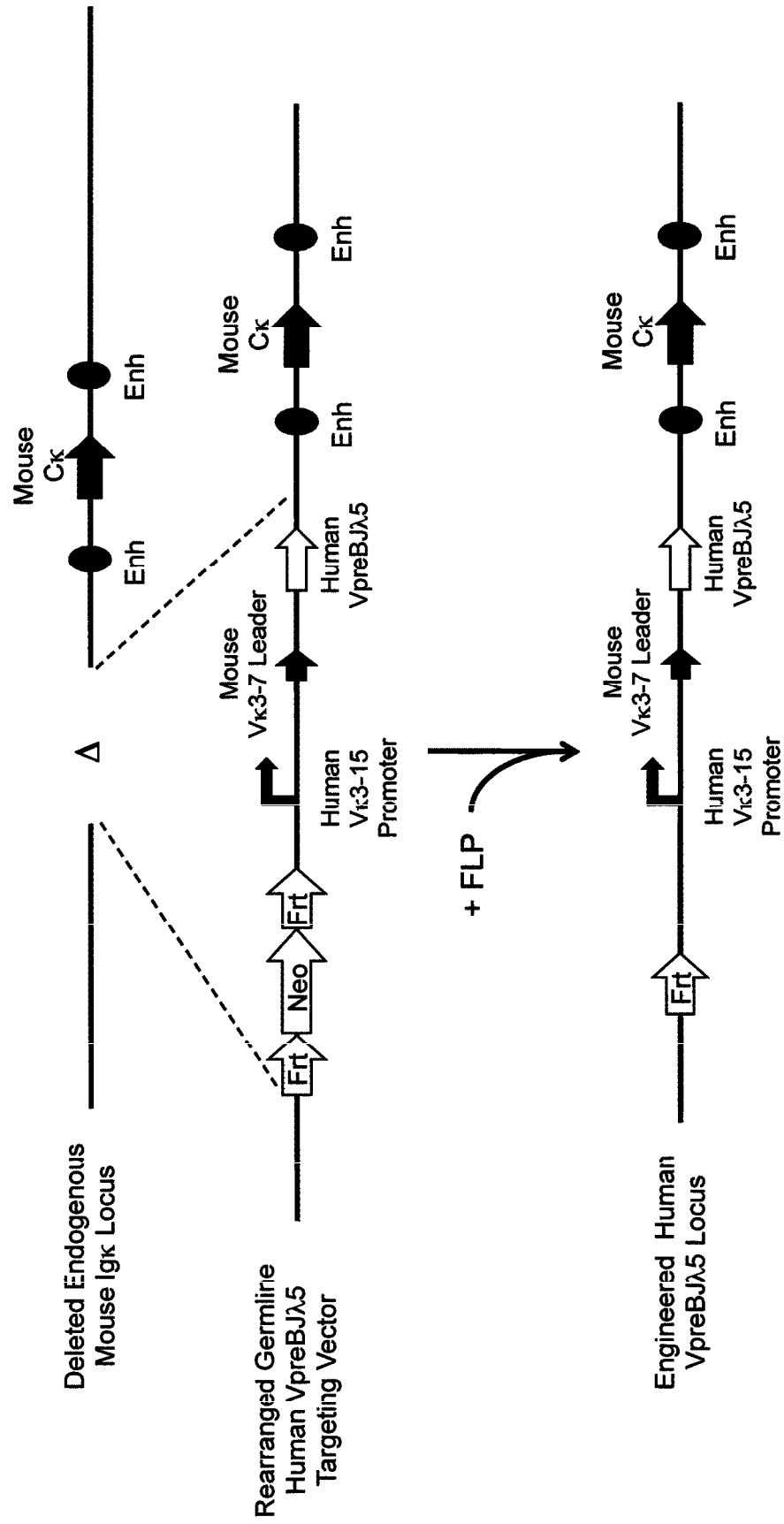


FIG. 21

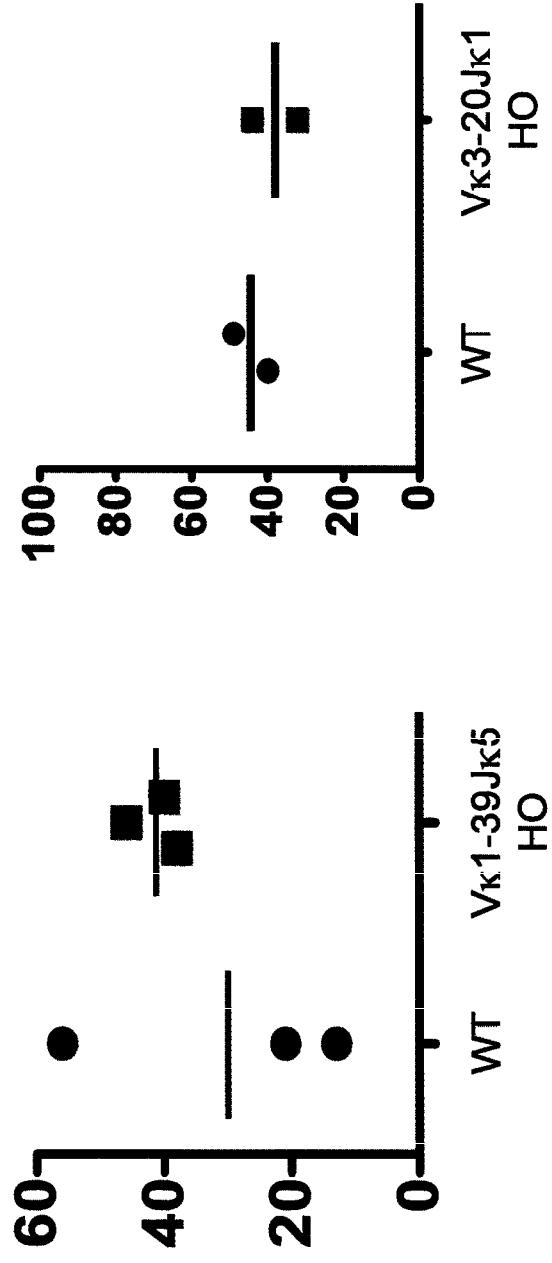


FIG. 22

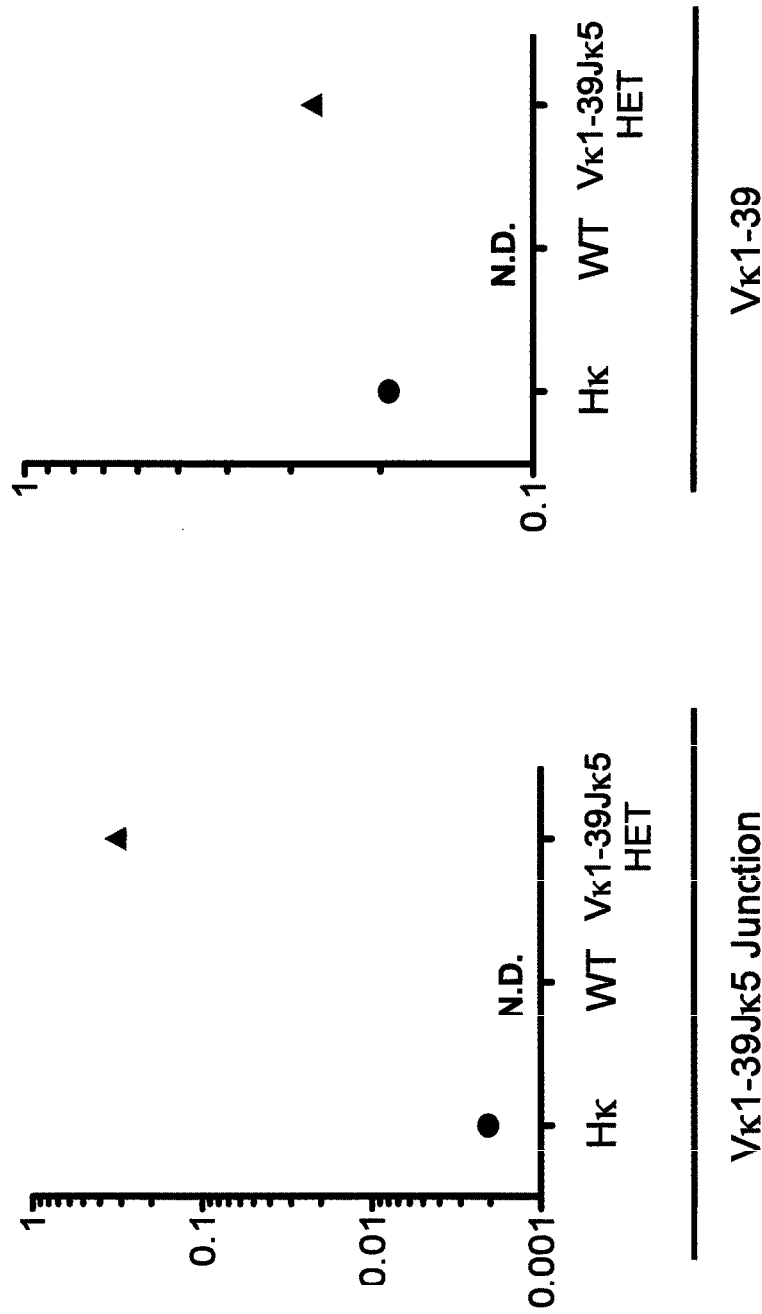


FIG. 23A

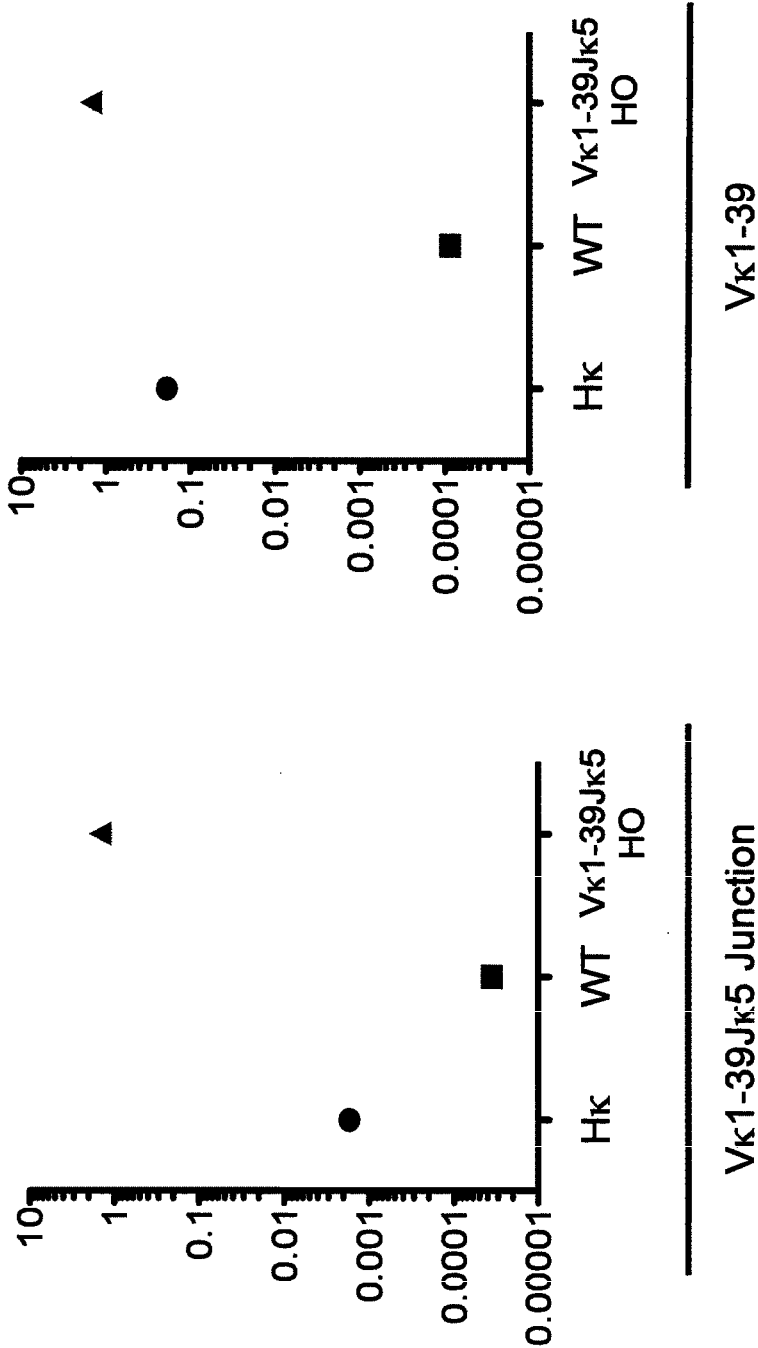


FIG. 23B

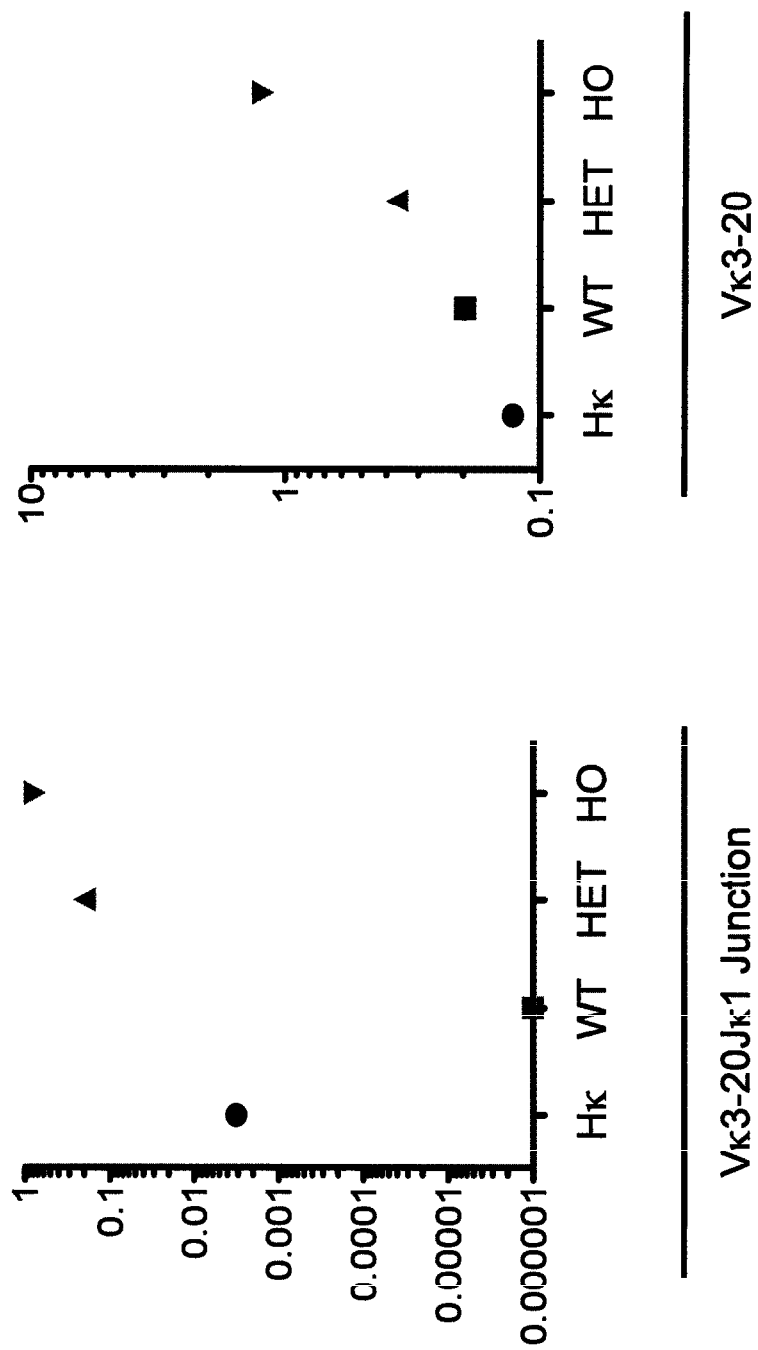


FIG. 23C

45/46

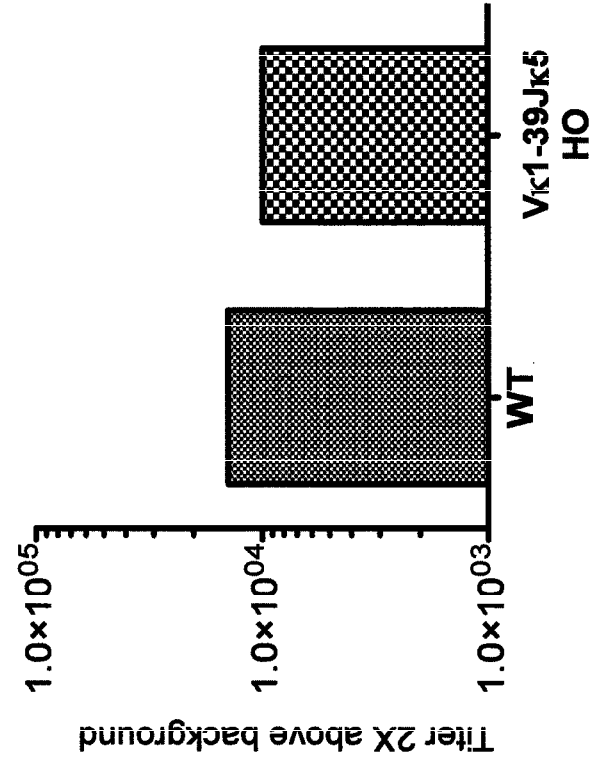
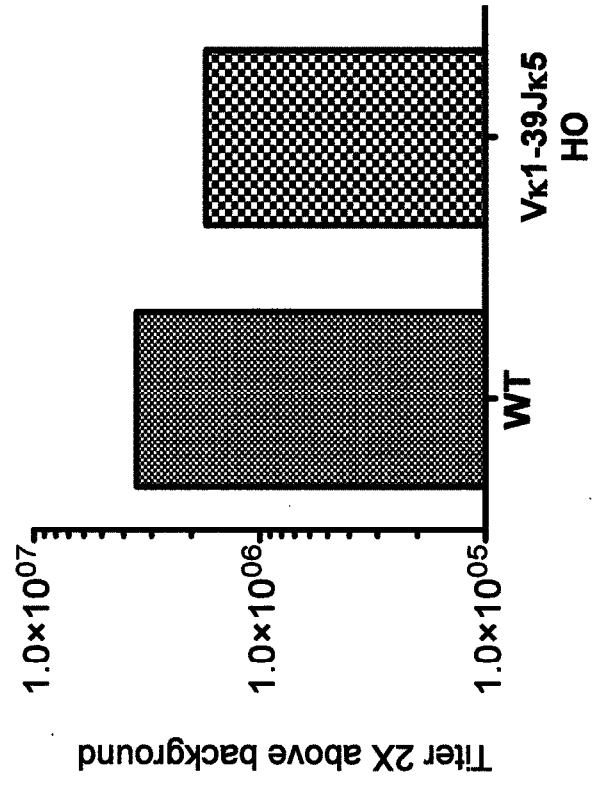


FIG. 24A

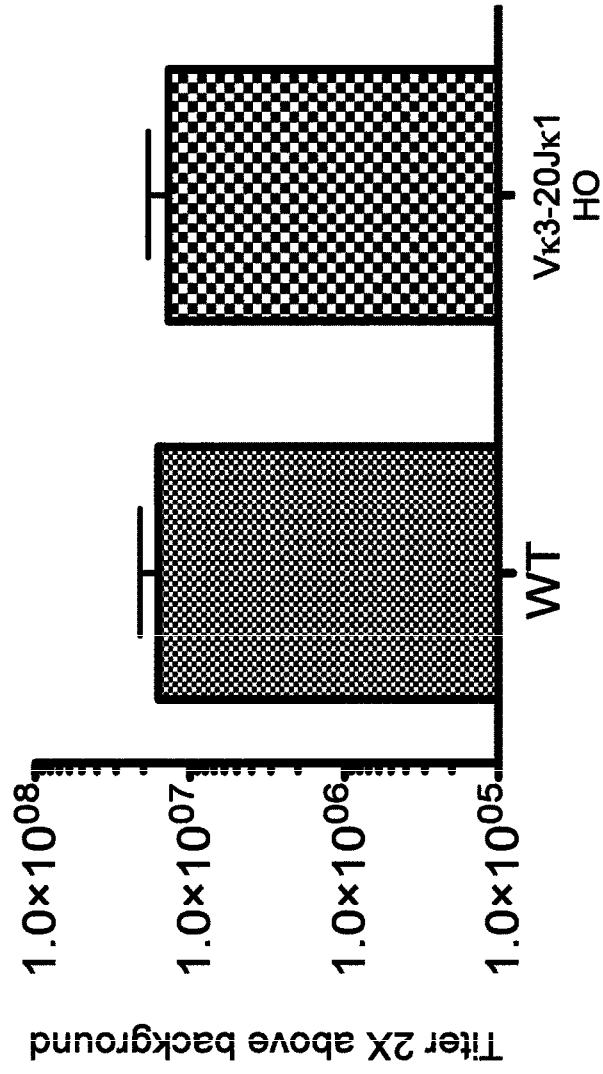


FIG. 24B