

FIG. 1A

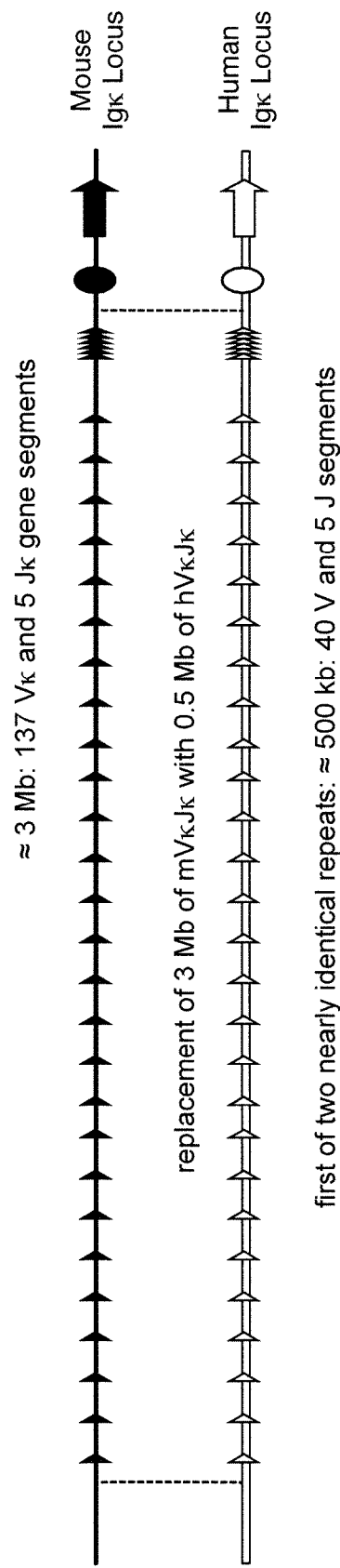


FIG. 1B

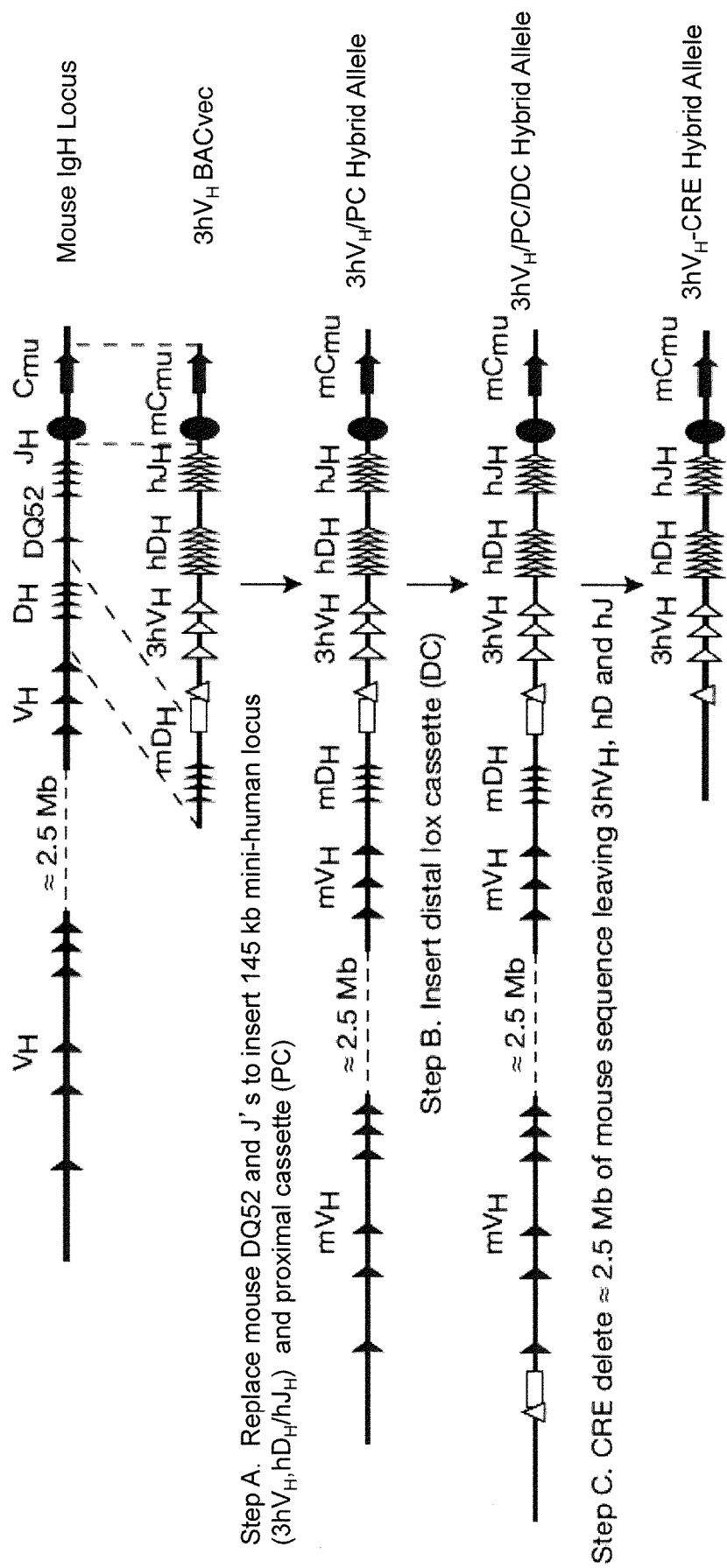


FIG. 2A

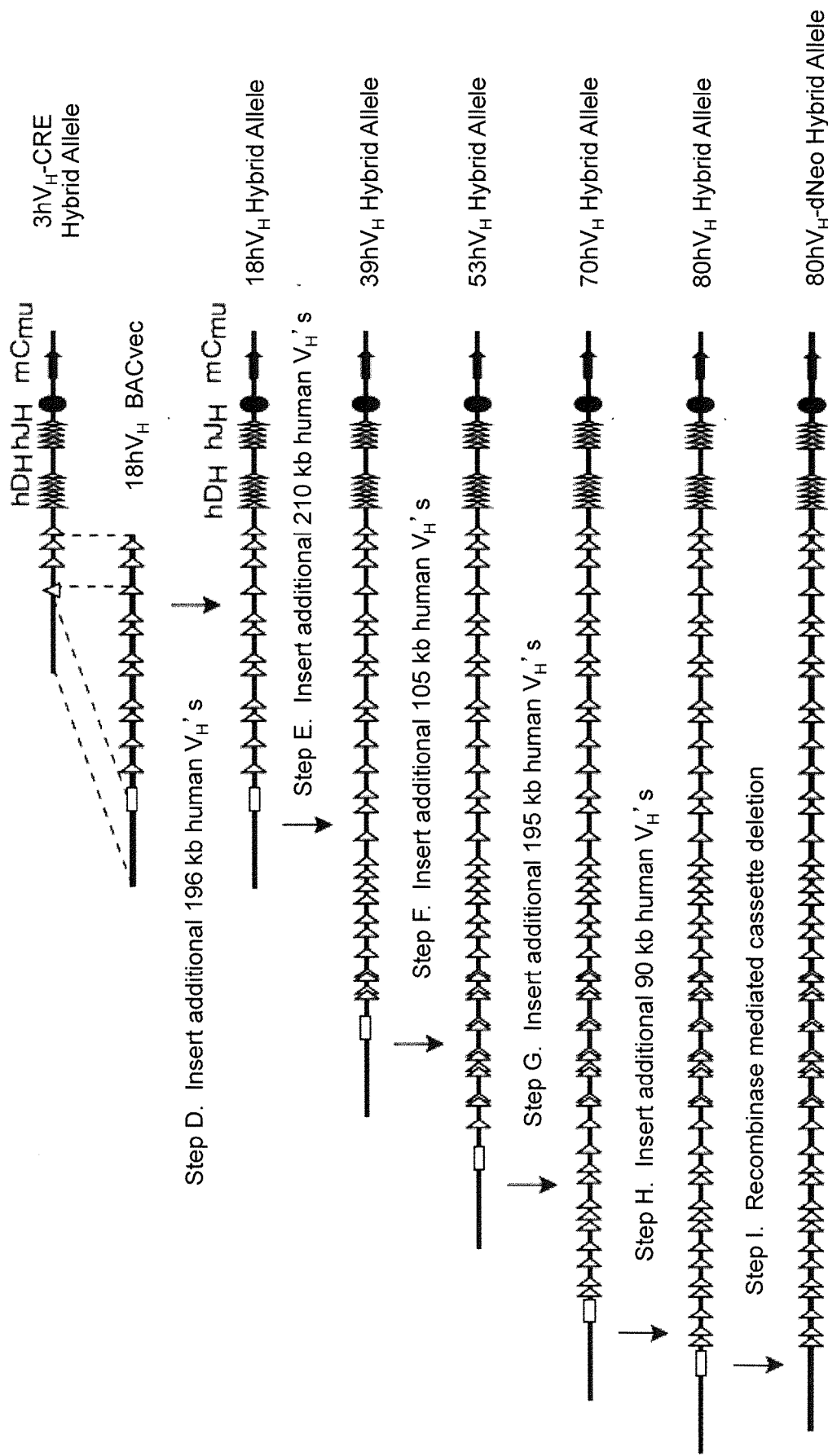


FIG. 2B

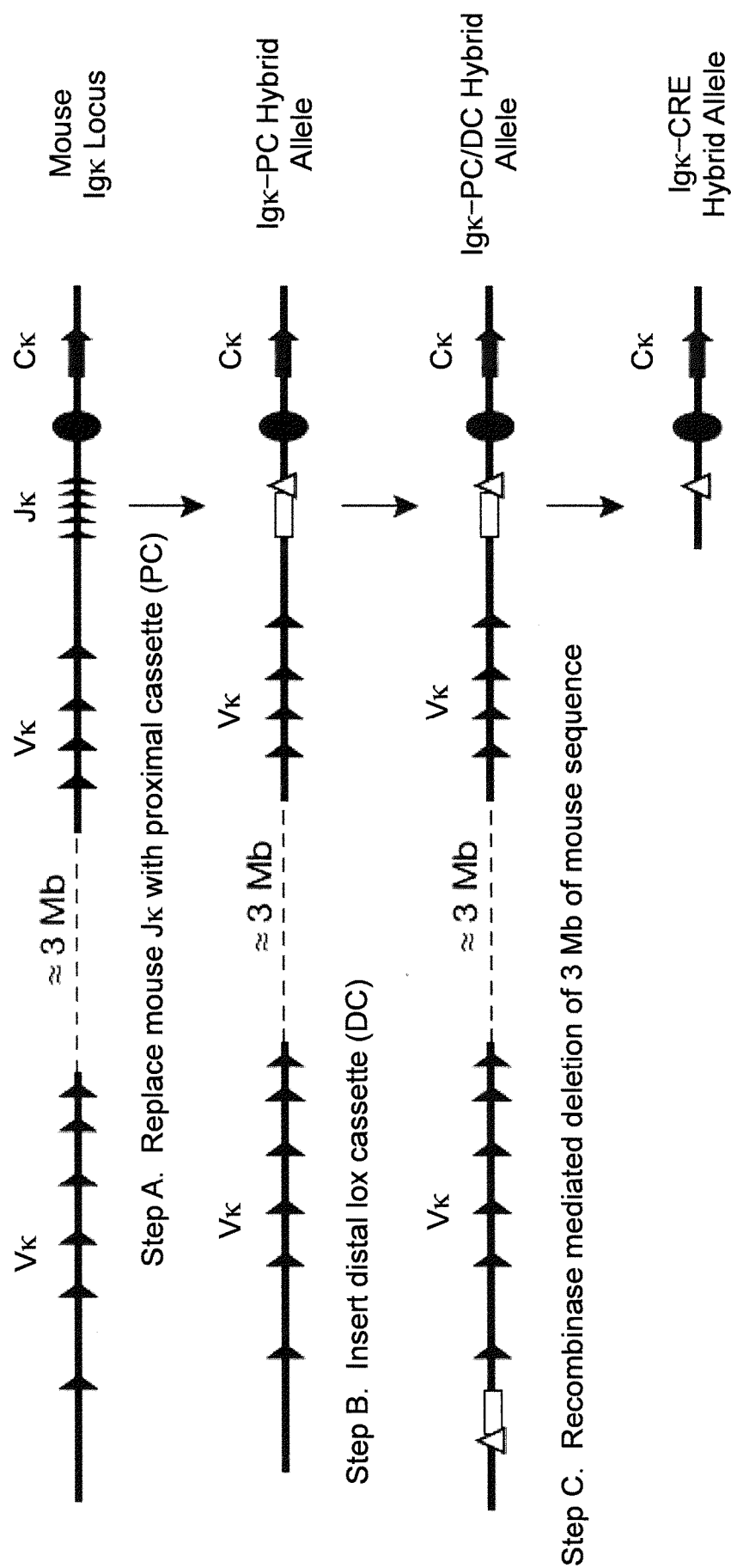


FIG. 2C

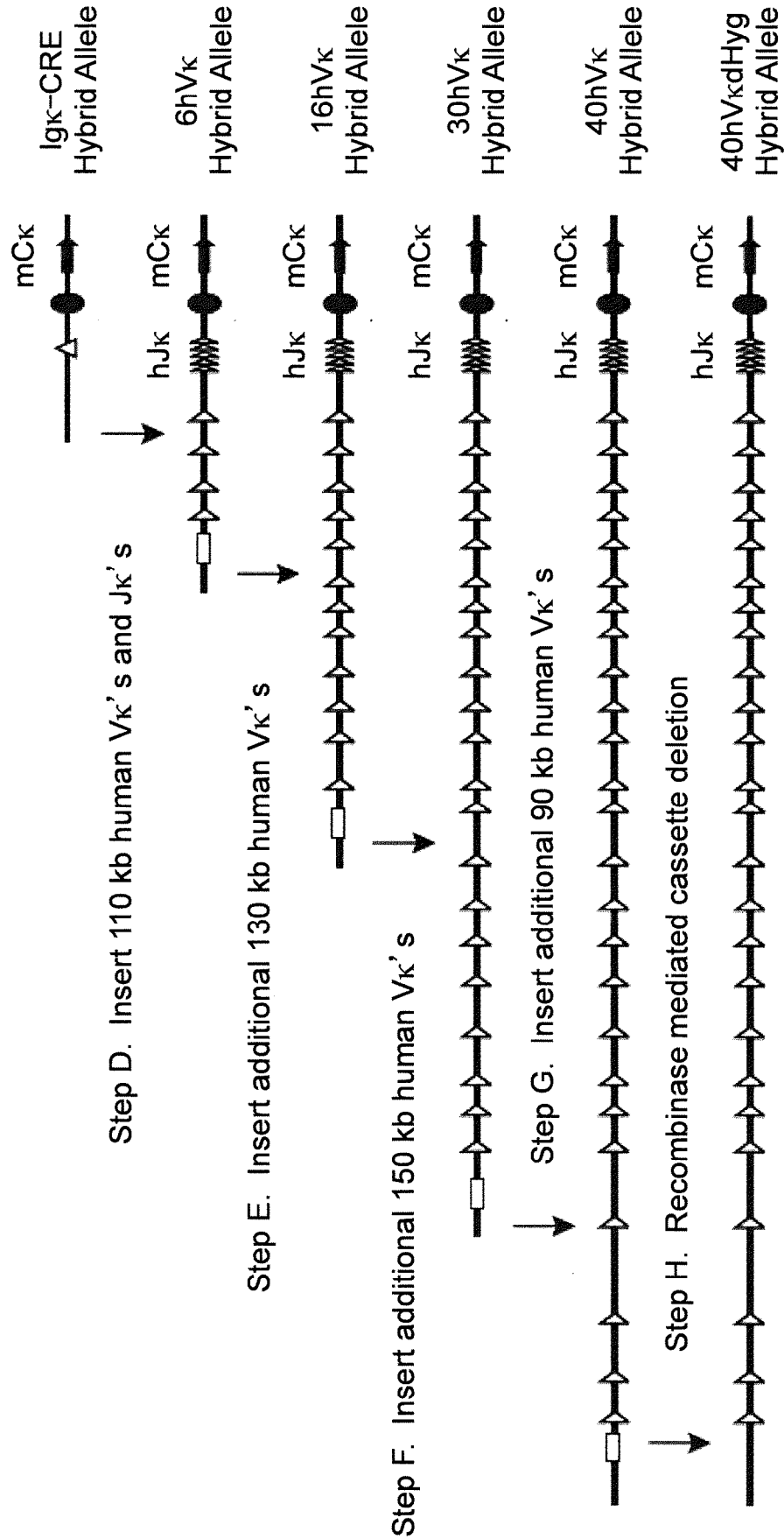


FIG. 2D

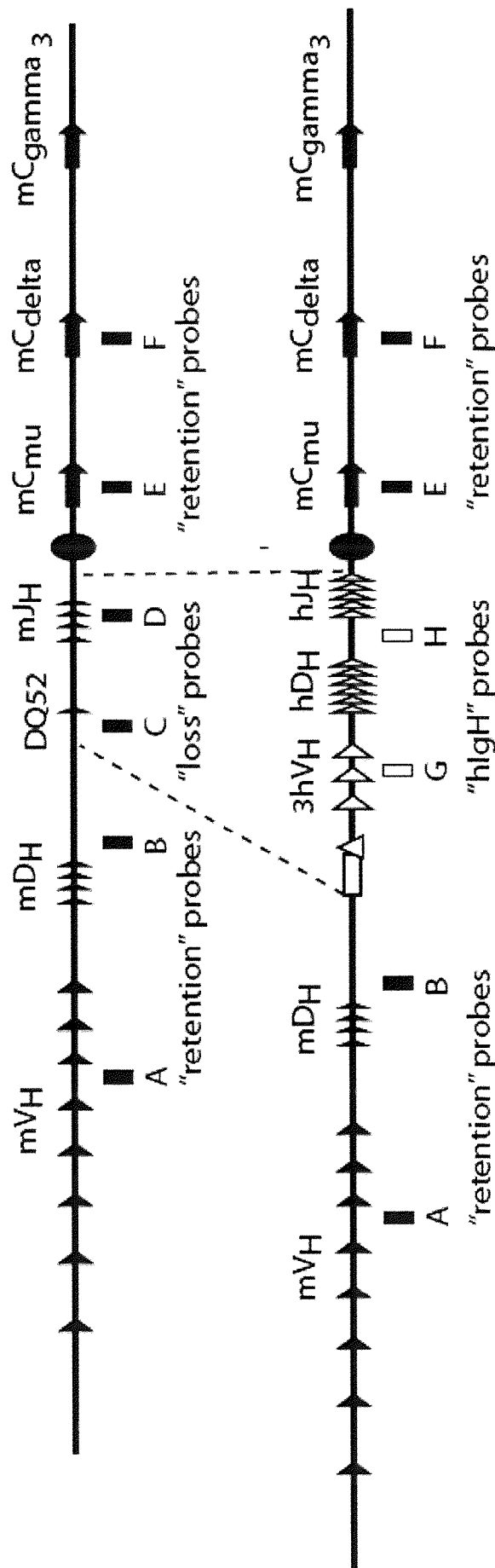


FIG. 3A

		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

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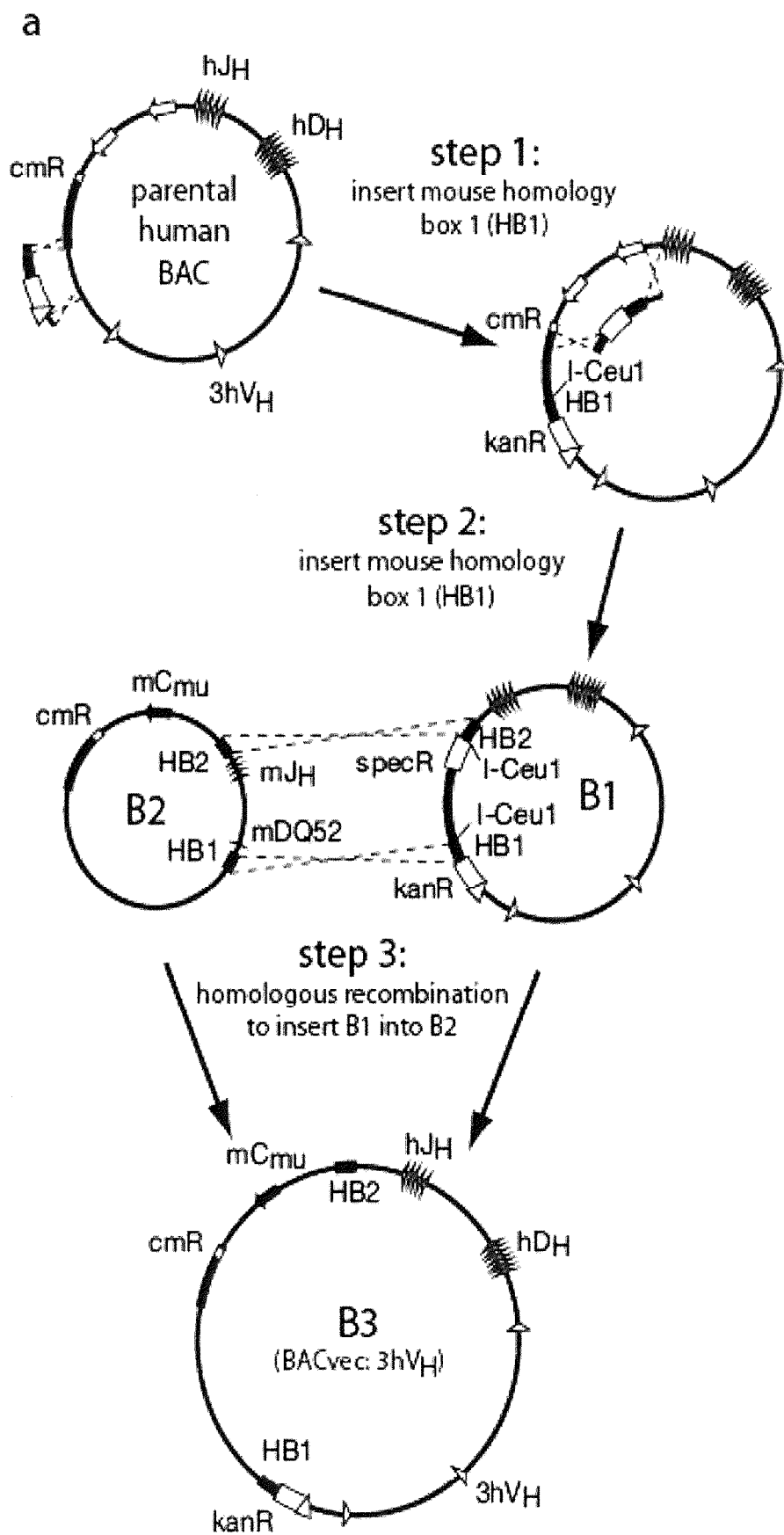


FIG. 4A

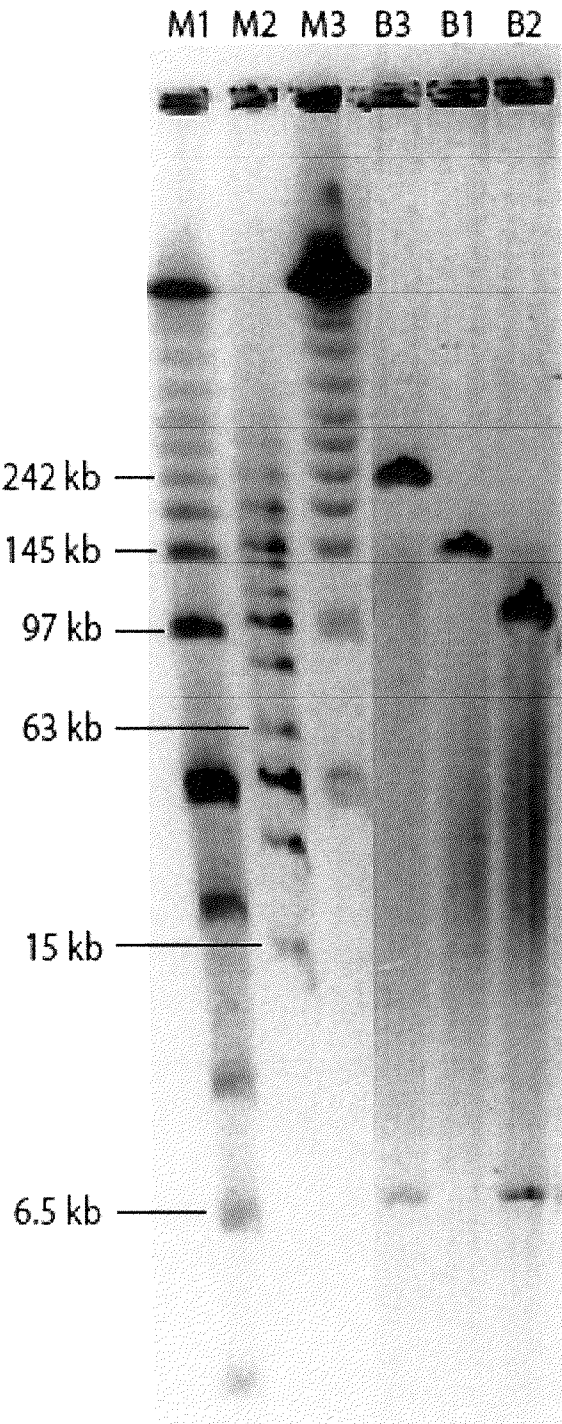


FIG. 4B

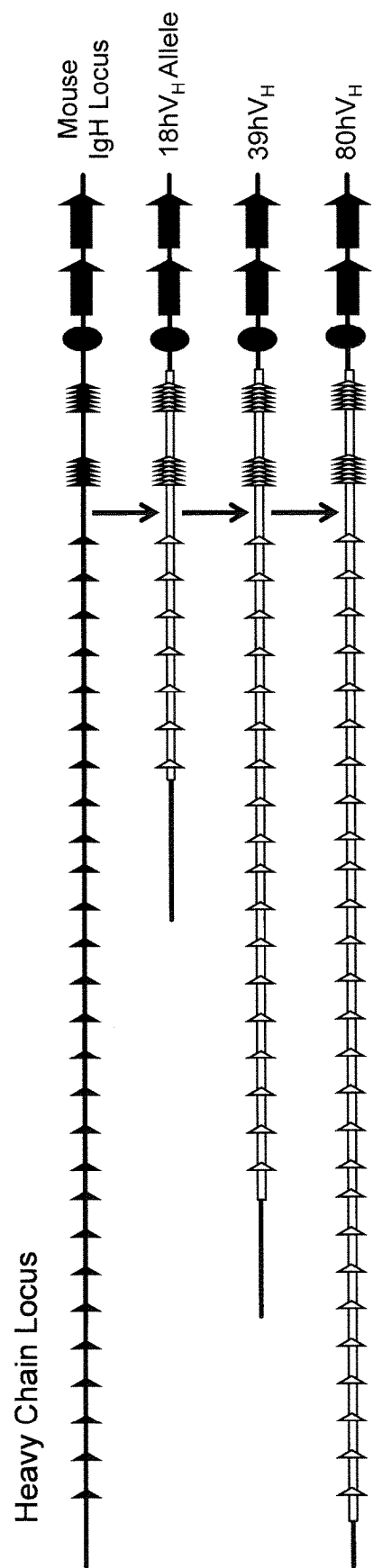


FIG. 5A

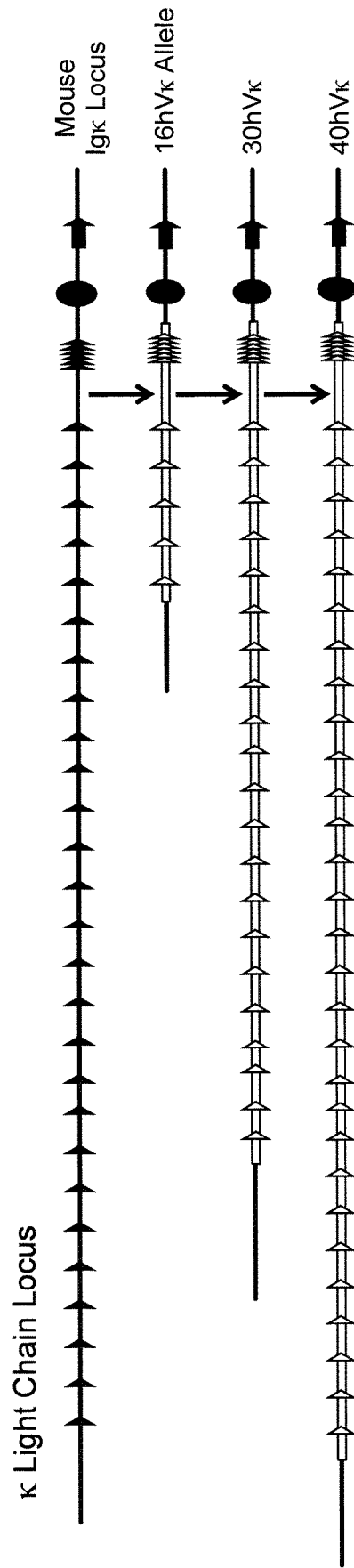


FIG. 5B

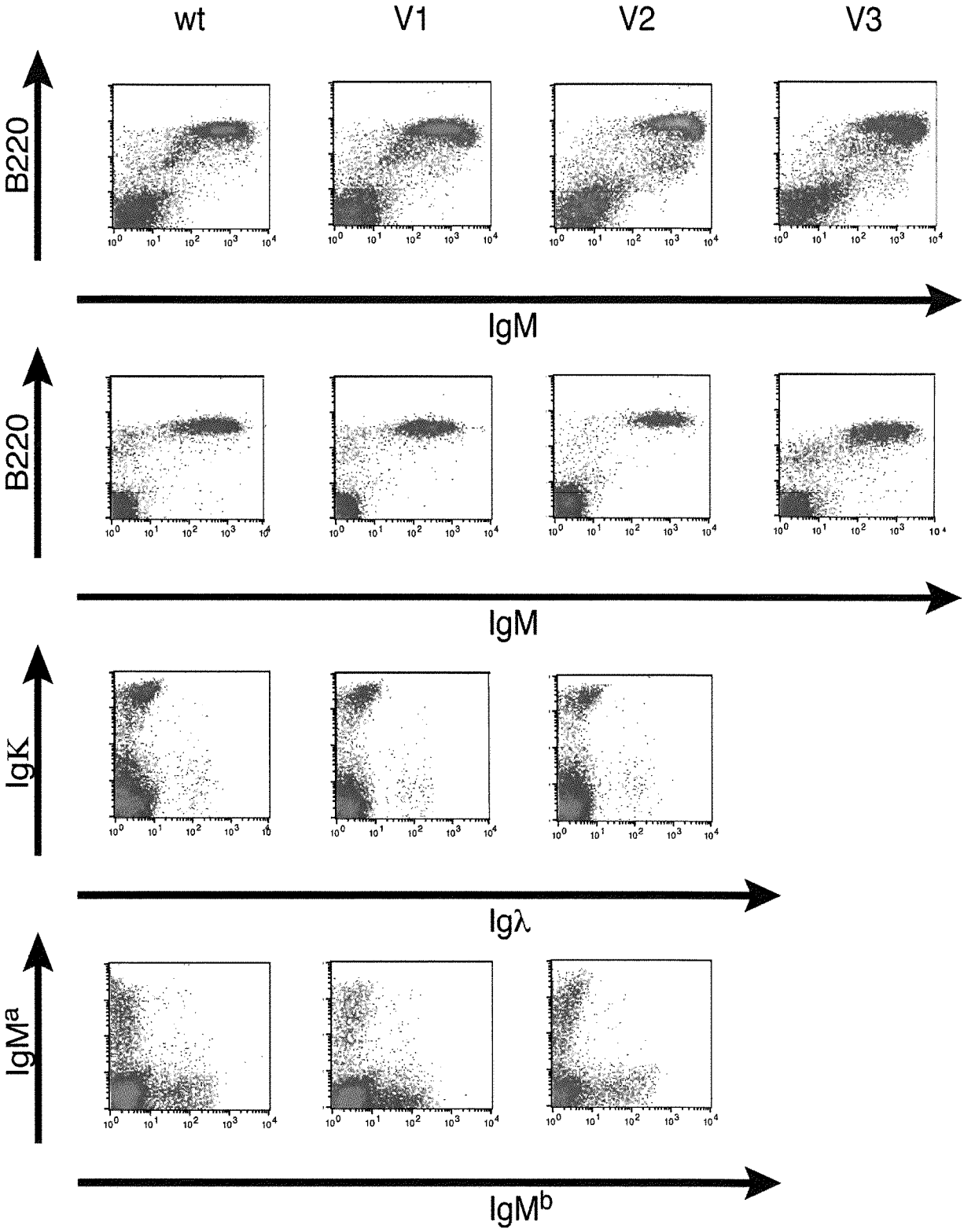


FIG. 6

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

FIG. 7A

3'Vκ	N	5' Jκ
(1-6) CAACAGAGTTAAGTACCCCTCC	GGA	GACG(1)
(1-9) CAACAGCTTAATAGTTACCCCTC		GGACG(1)
(1-9) CAACAGCTTAATAGTTACC		ATTCACT(3)
(1-9) CAACAATTAAATAGTTACCC		GCTCACT(4)
(3-15) CAGCAGTATAATAACTGGCCTC		TCACT(4)
(1-17) CTACAGCATAAATAGTTACCC		GTGGACG(1)
(1-17) CTACAGCATAAATAGTTACCCCTC		GGACG(1)
(3-20) CAGCAGTATGGTAGCTCACCTC		GGACG(1)
(2-30) ATGCAAGGTACACACTGGCC		GTGGACG(1)
(2-30) ATGCAAGGTtCACACTGGCC		GTACACT(2)
(2-30) ATGCAAGGTACACACTGGCC		GCTCACT(4)
(1-33) CAACAGTATGATAAATCTCCCTCC		CACT(3)
(1-33) CAACAGTATGATAAATCTCCC		ATTCACT(3)
(1-33) CAACAGTATGATAAATCTCCC	CG	TCACT(4)
(1-33) CAACAGTATGATAAATCTCCC		GATCACC(5)
(1-37) CAACGGAttTACAATGCC	GA	CACC(5)
(1-39) CAACAGAGTTACAGTACCCCTC	CA	TGTACACT(2)
(1-39) CAACAGAGTTACAGTACCCCTC		TCACT(4)
(1-39) CAACAGAGTTACAGTACTCCTCC		CACT(4)

FIG. 7B

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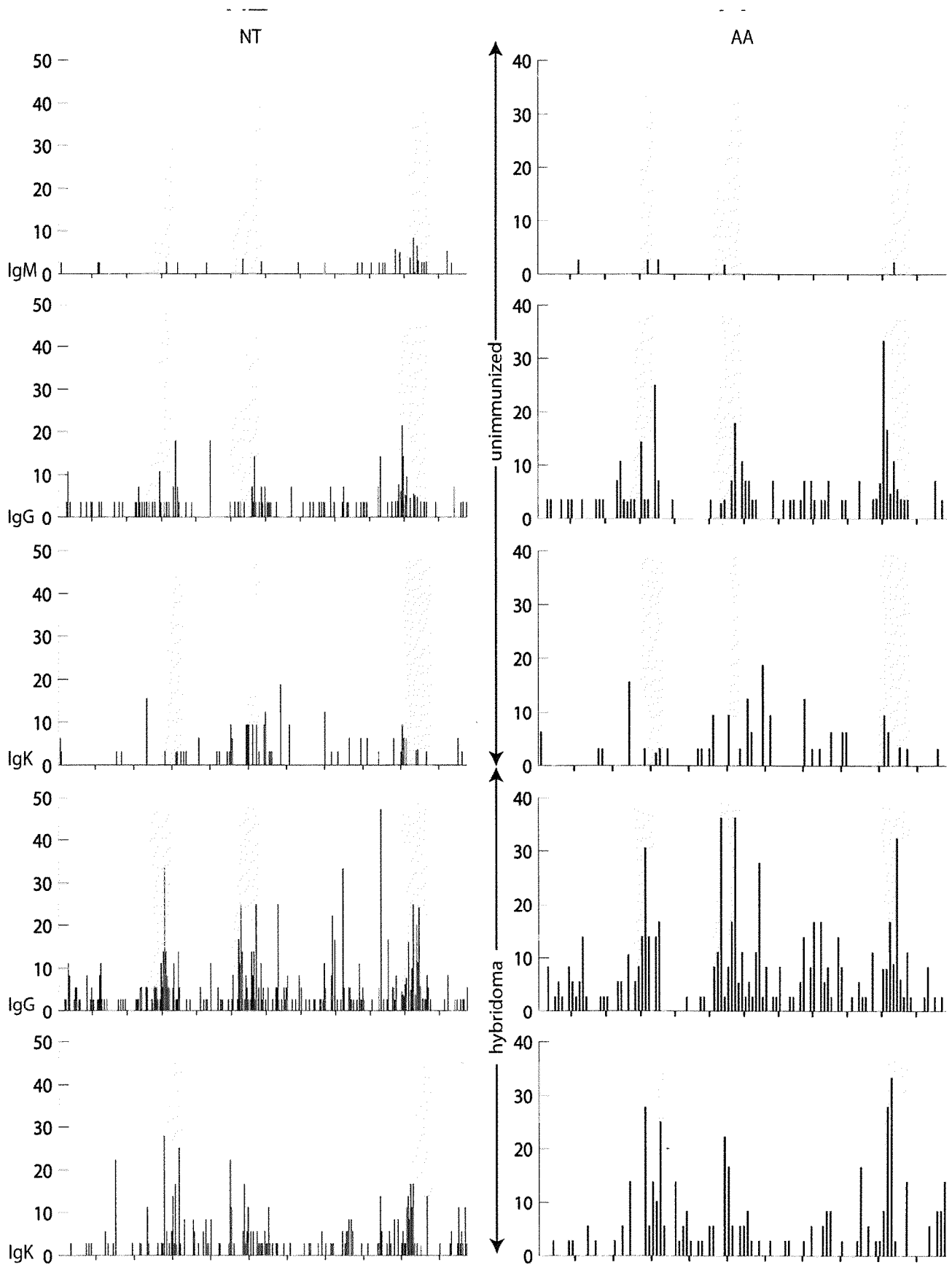


FIG. 8

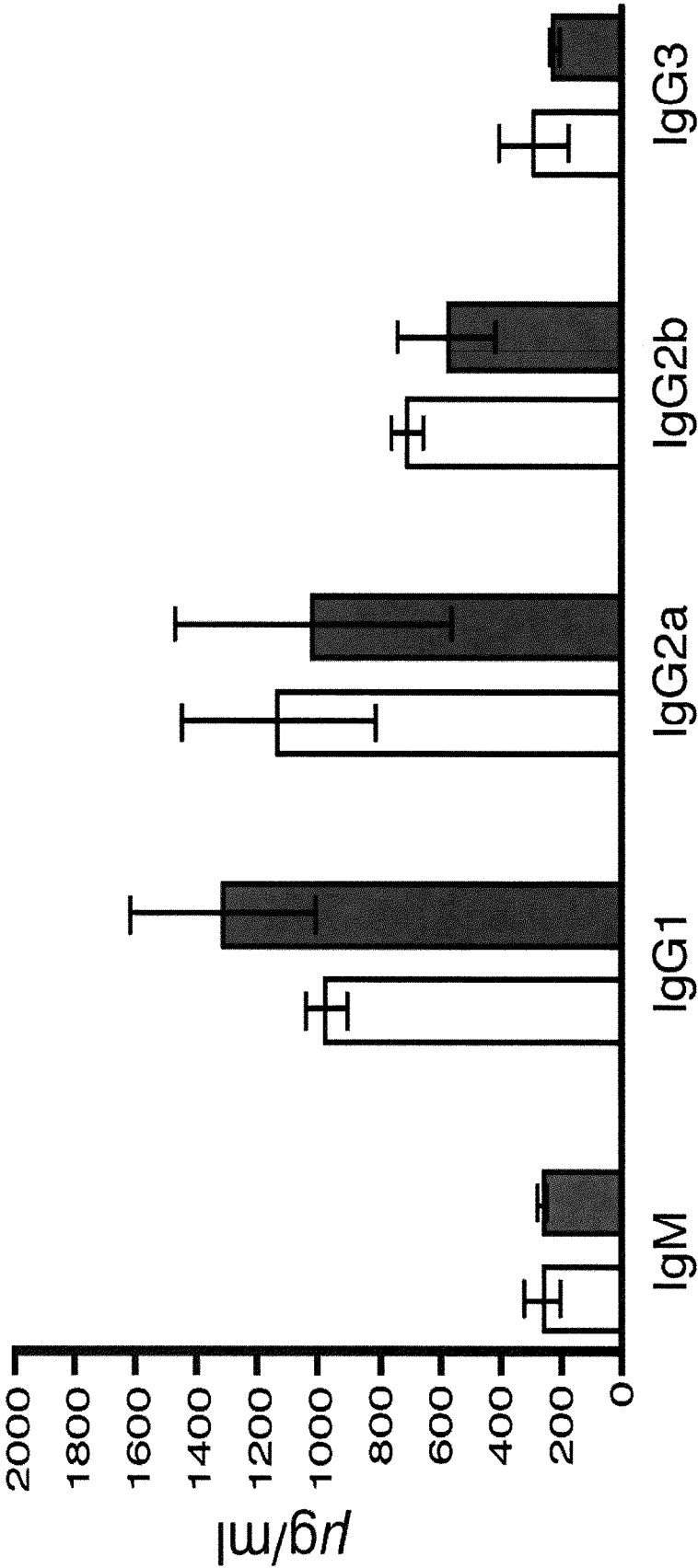


FIG. 9A

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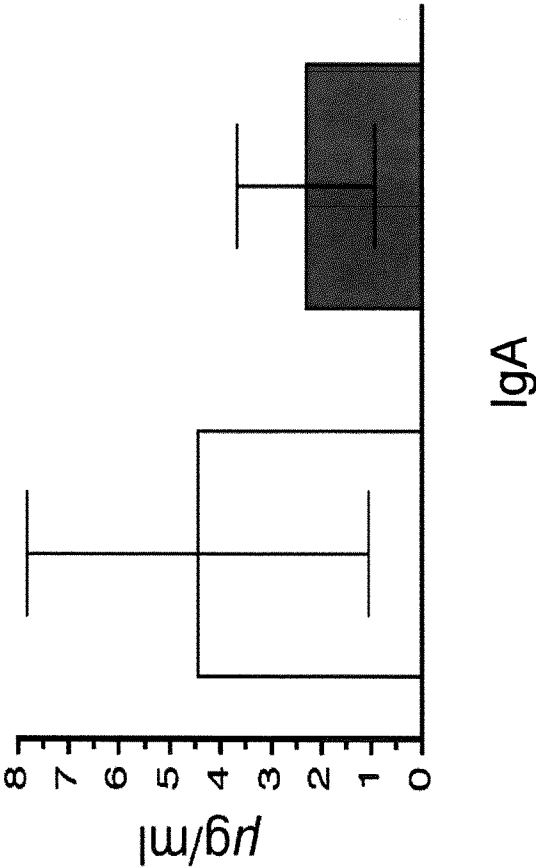


FIG. 9B

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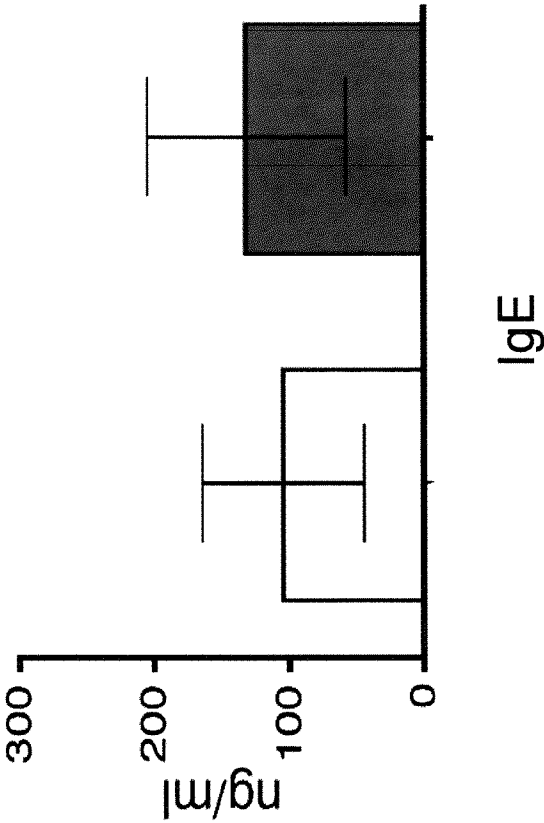


FIG. 9C

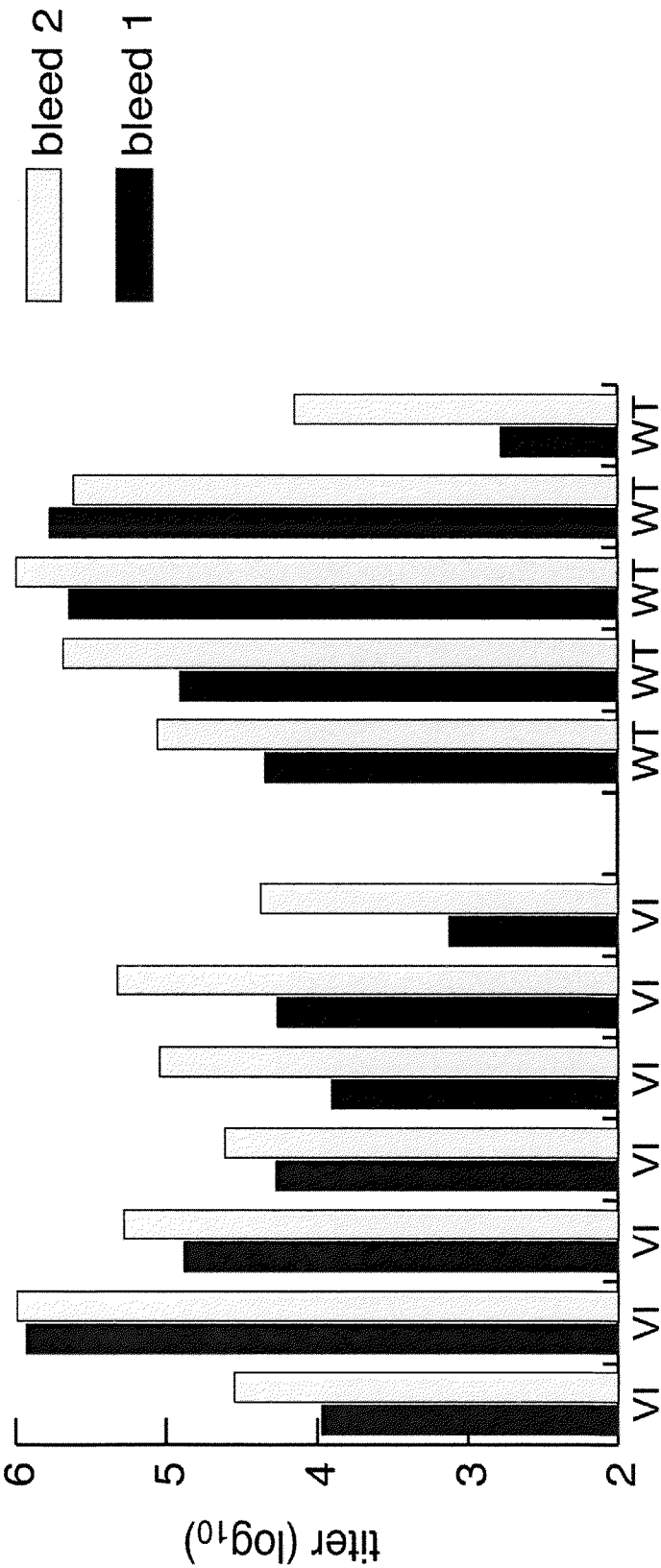
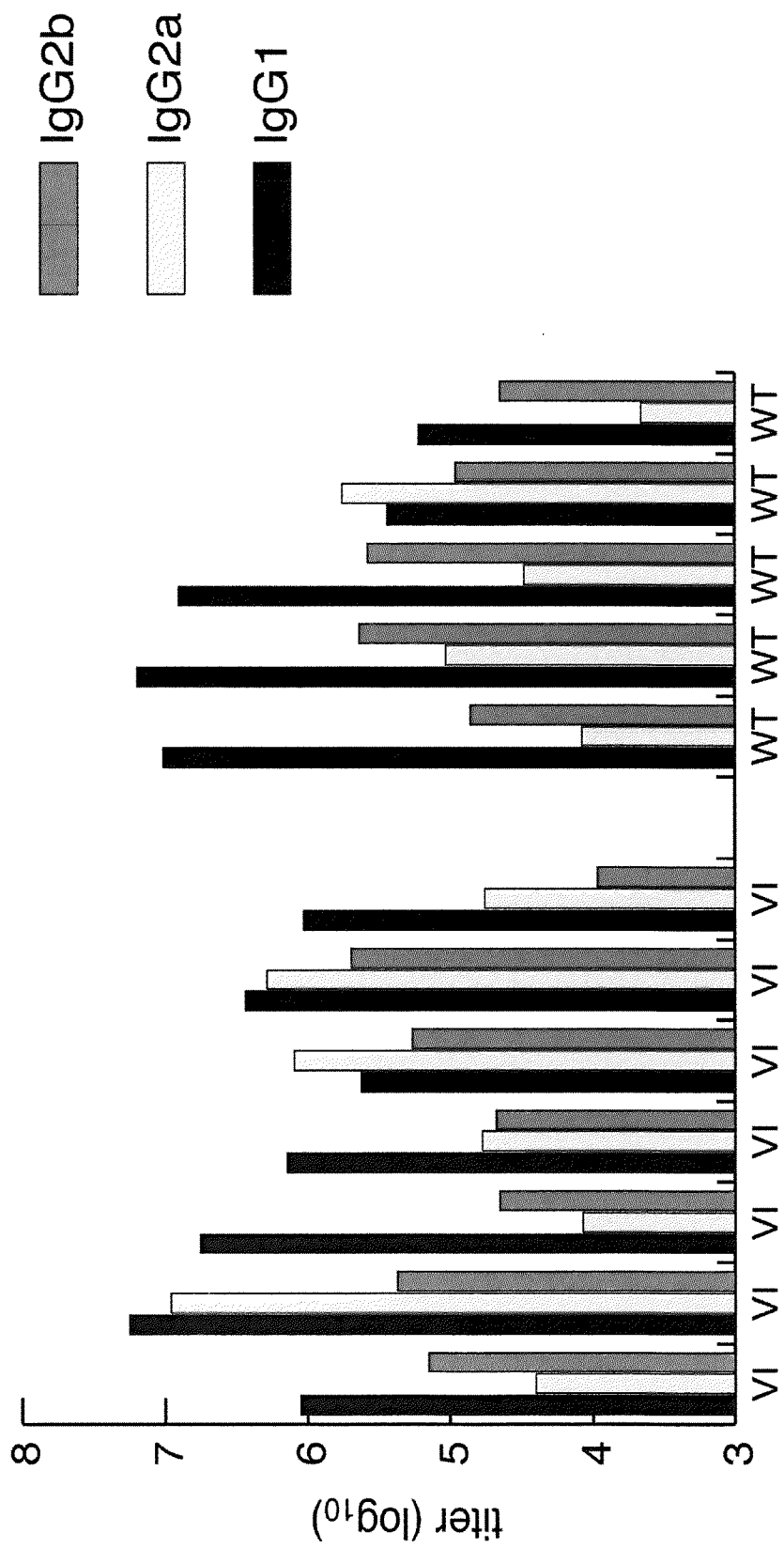


FIG. 10A



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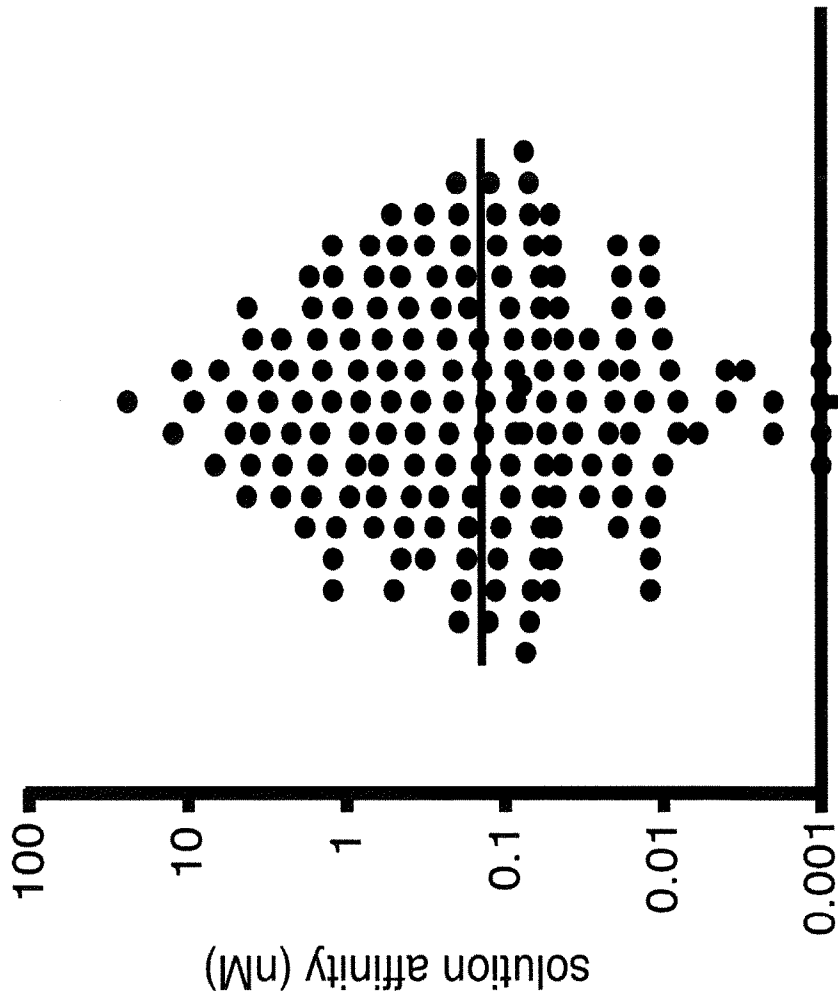


FIG. 11A

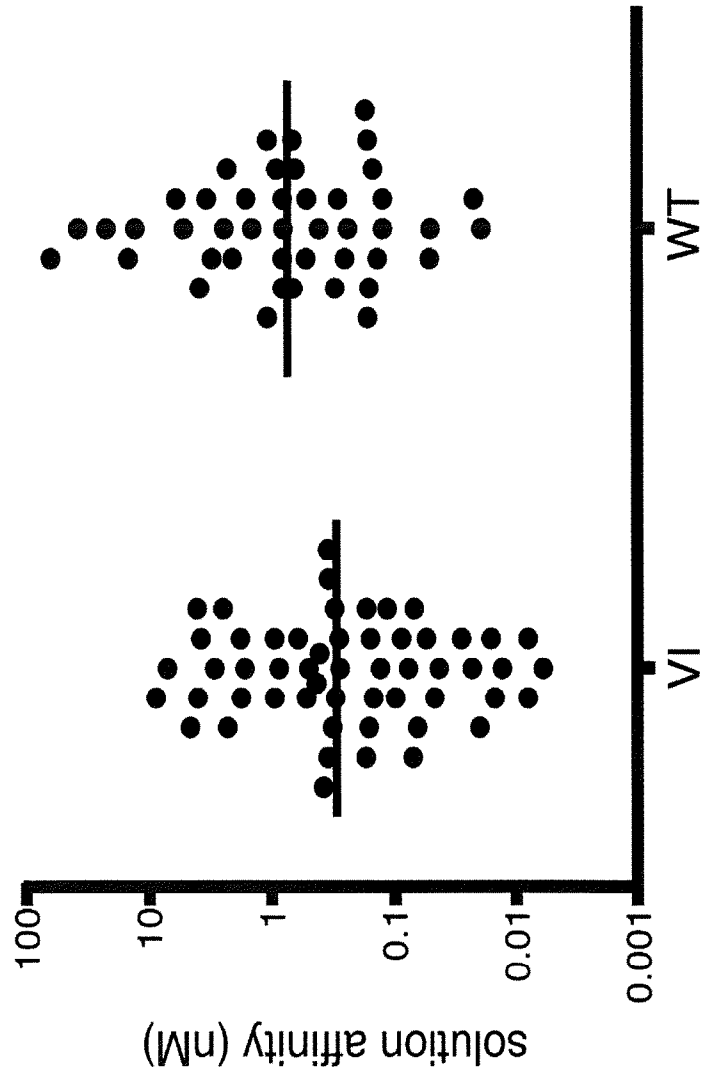


FIG. 11B

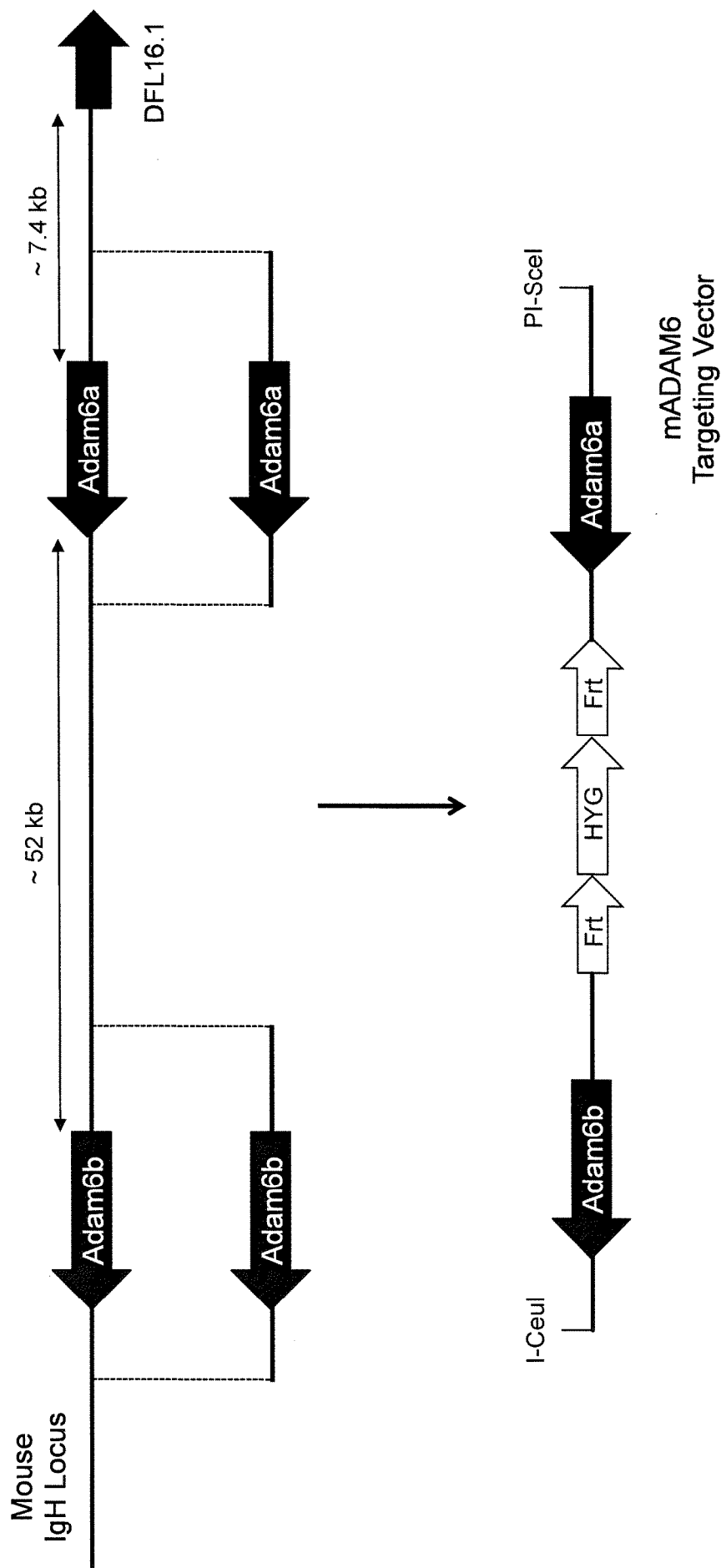


FIG. 12

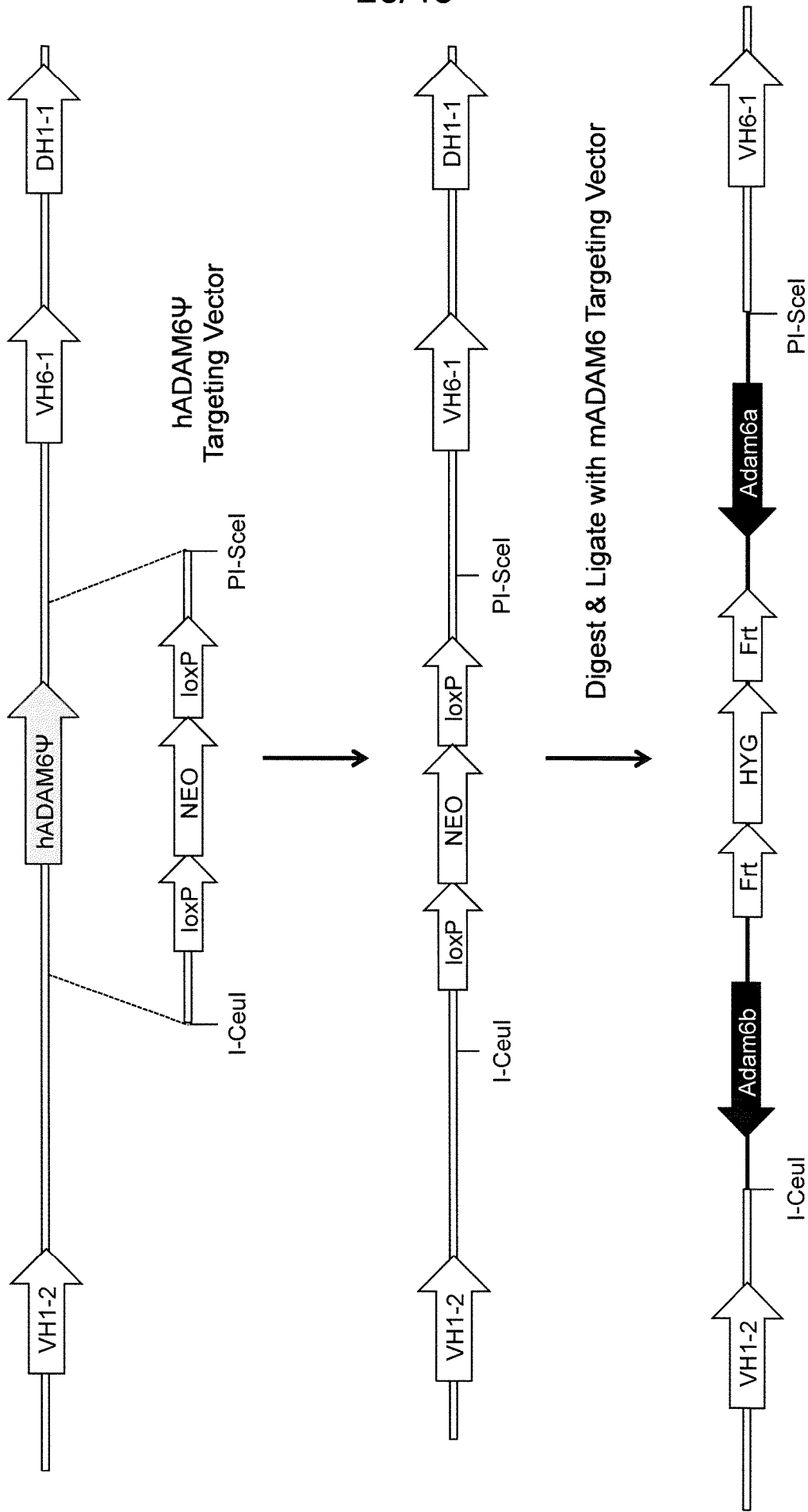


FIG. 13

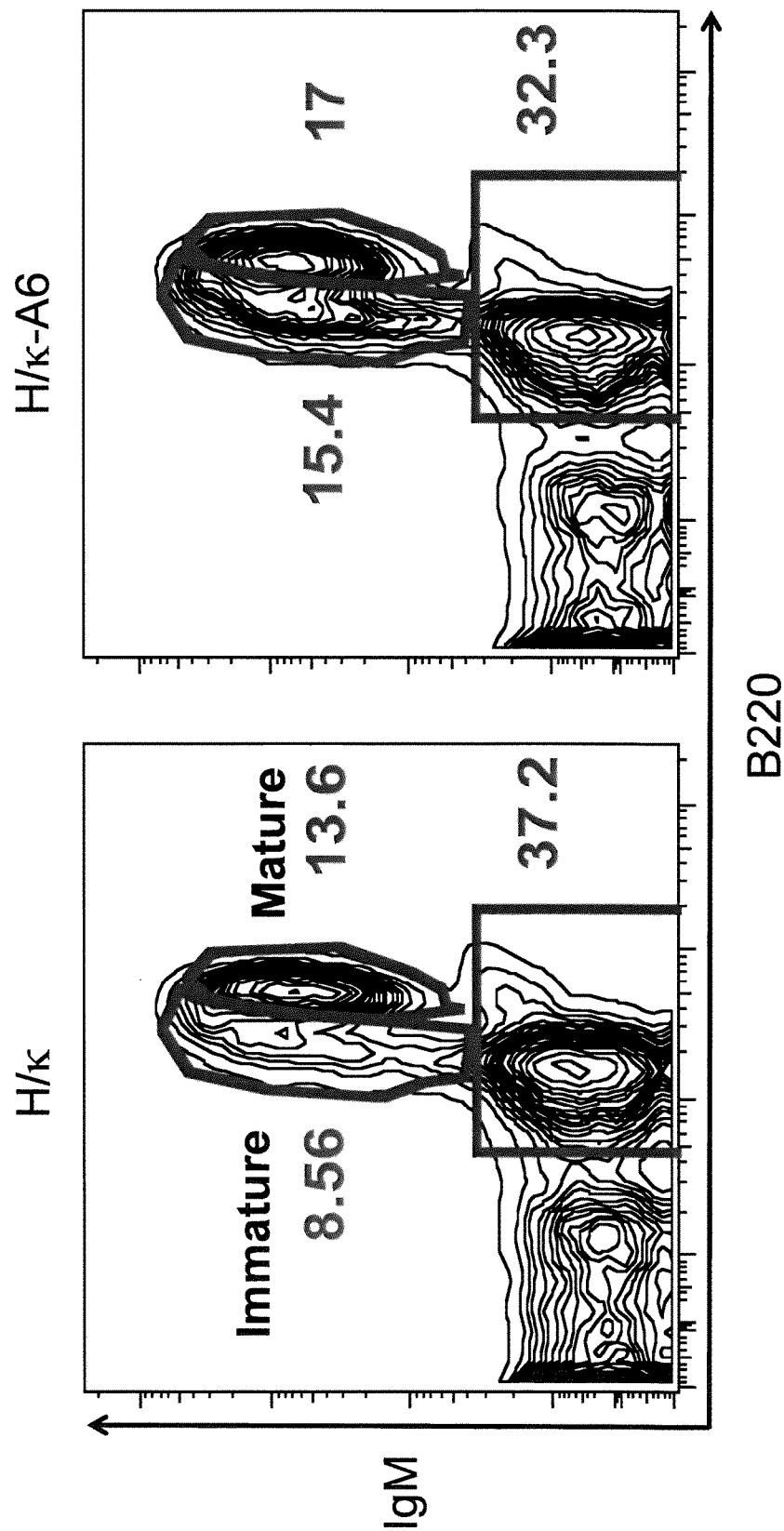


FIG. 14A

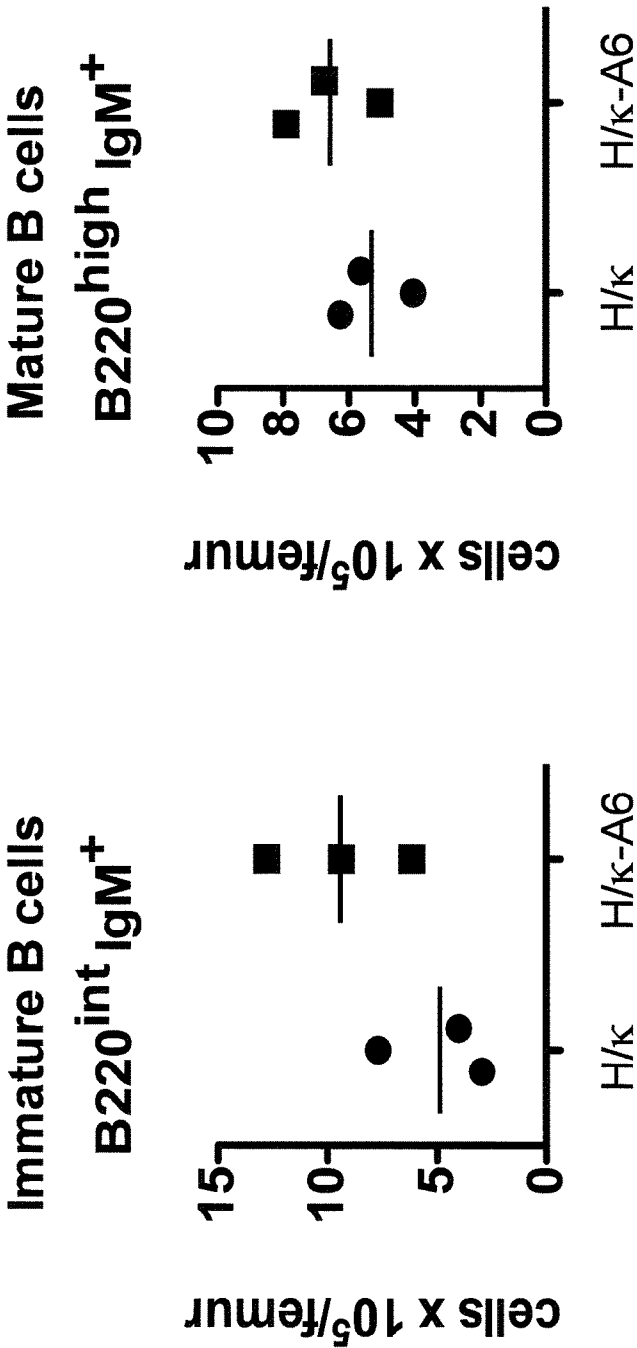


FIG. 14B

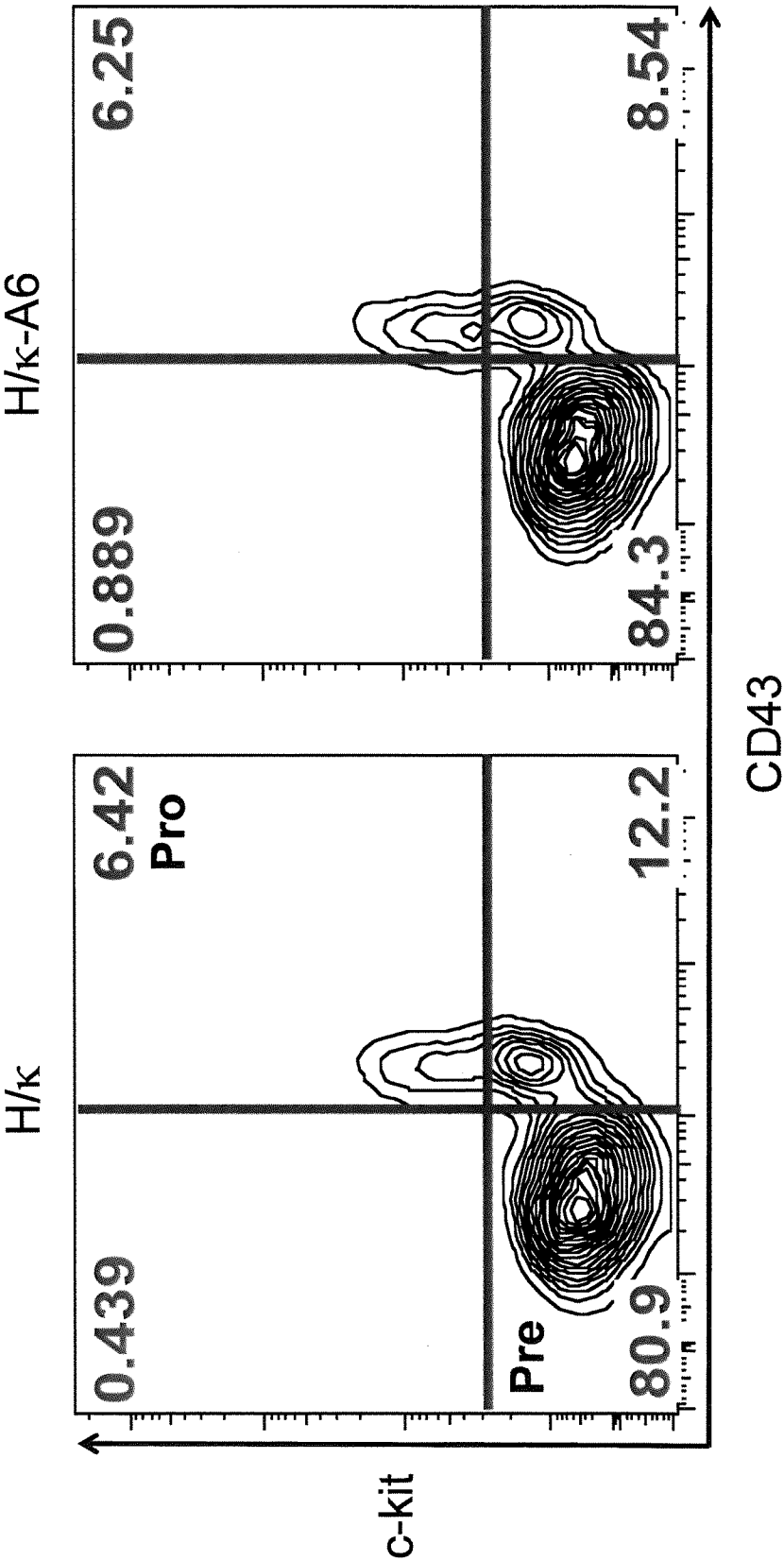


FIG. 15A

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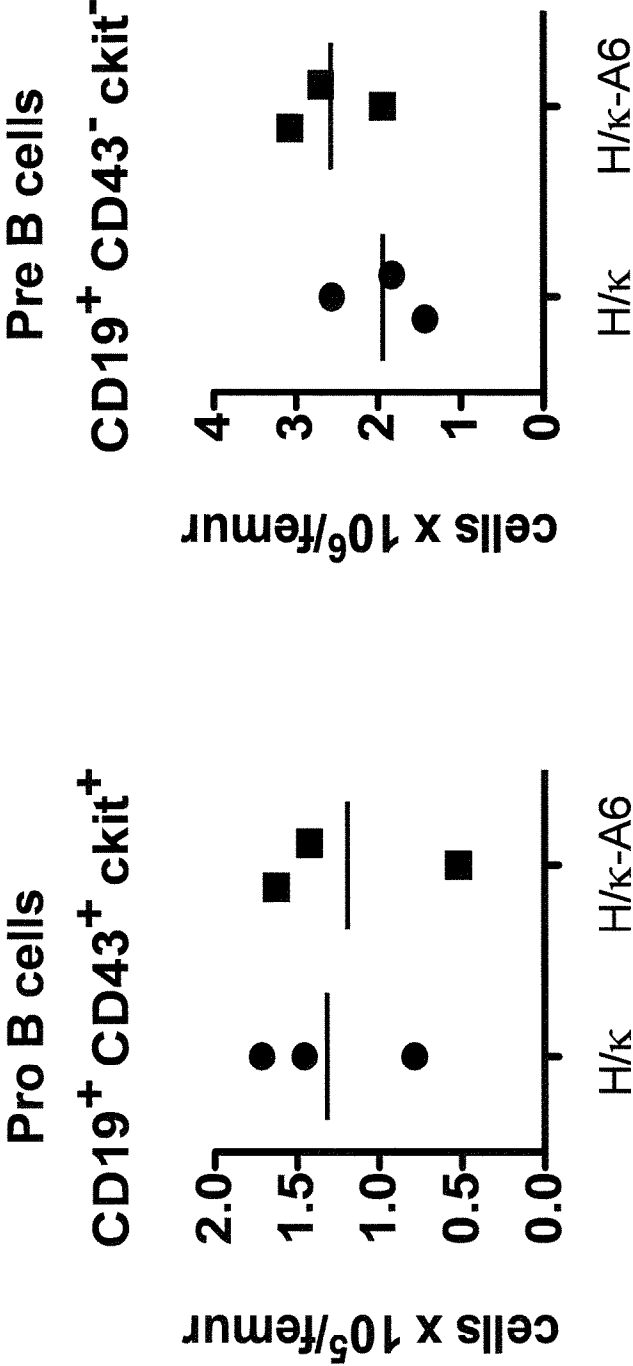


FIG. 15B

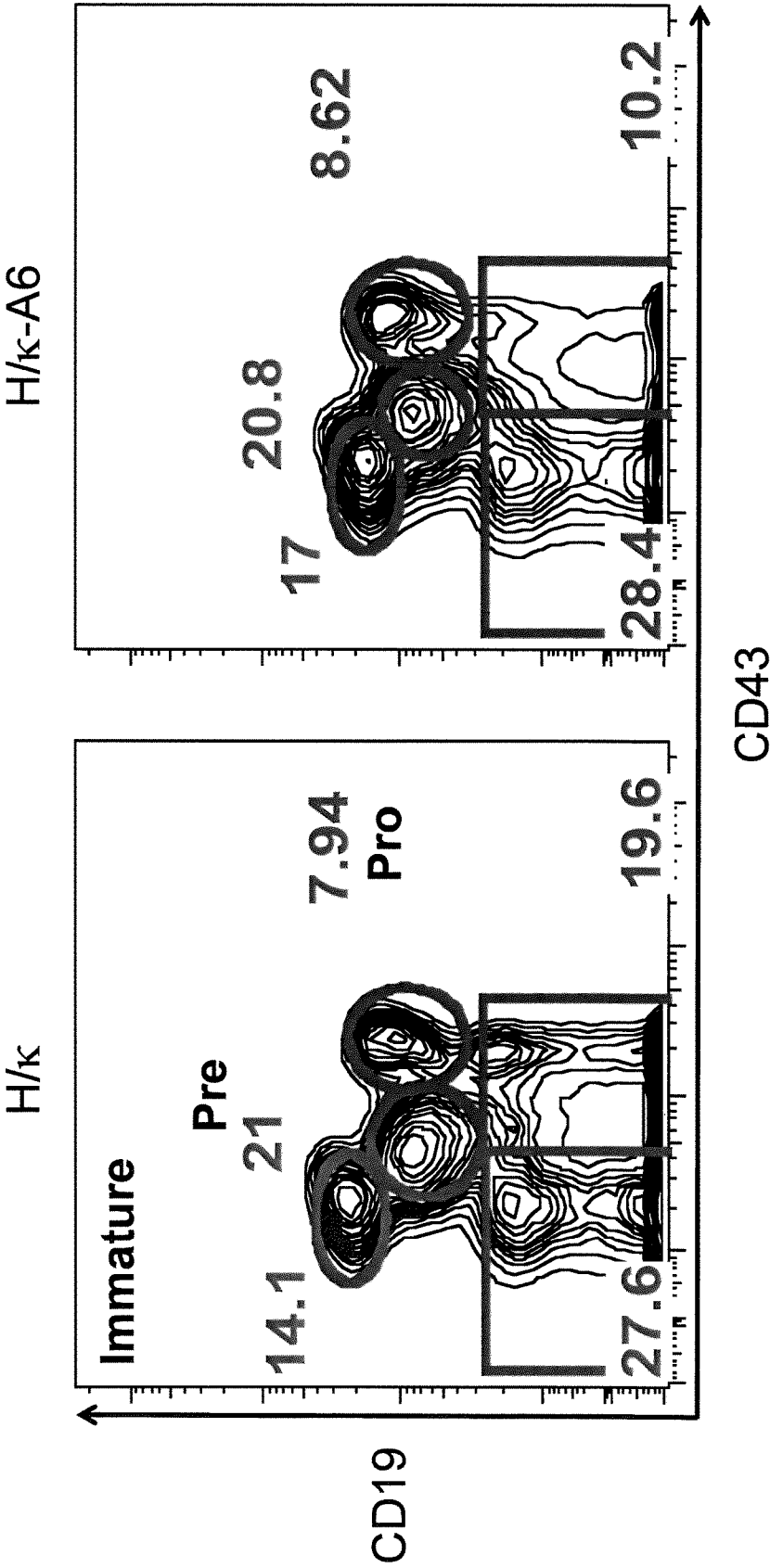


FIG. 16A

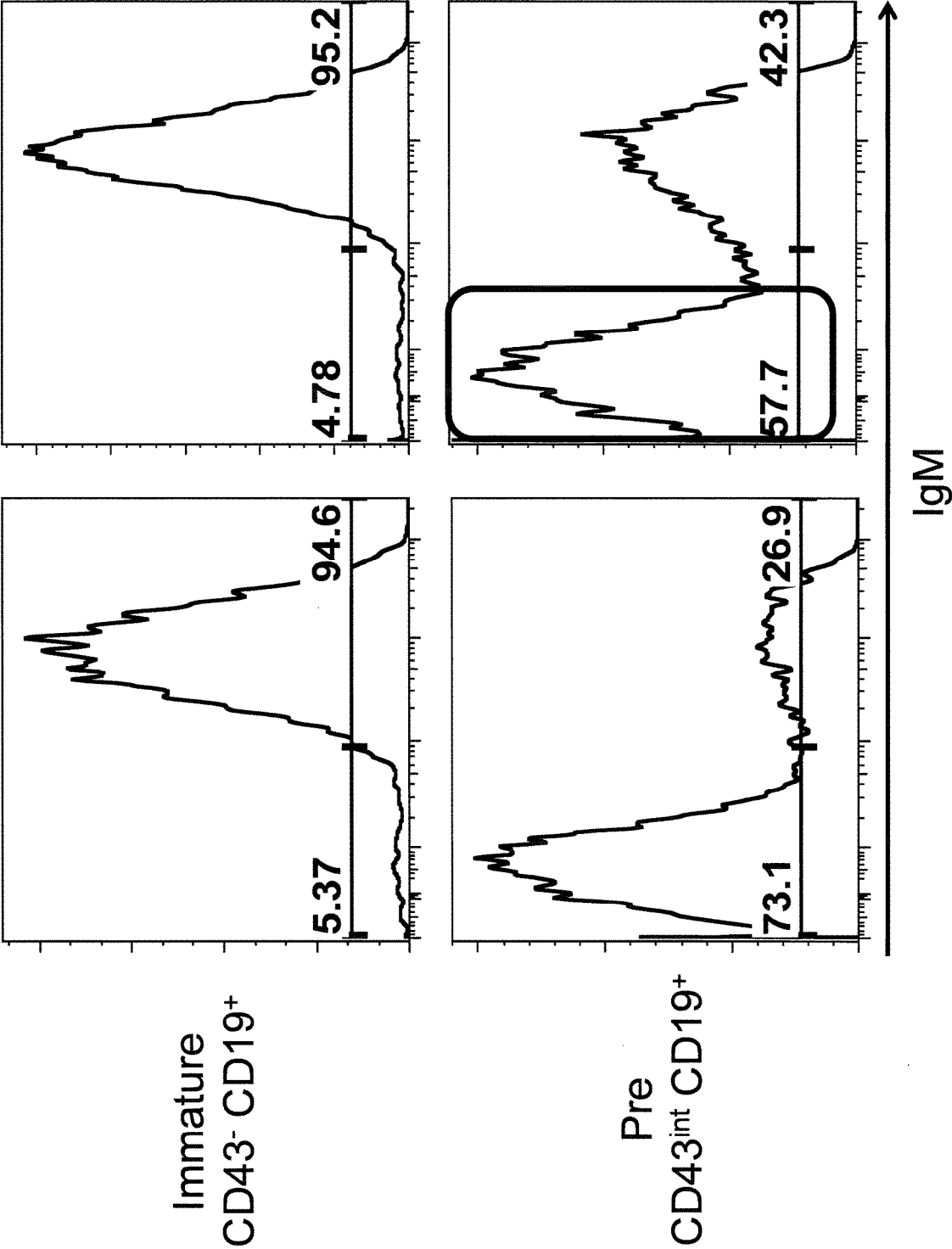


FIG. 16B

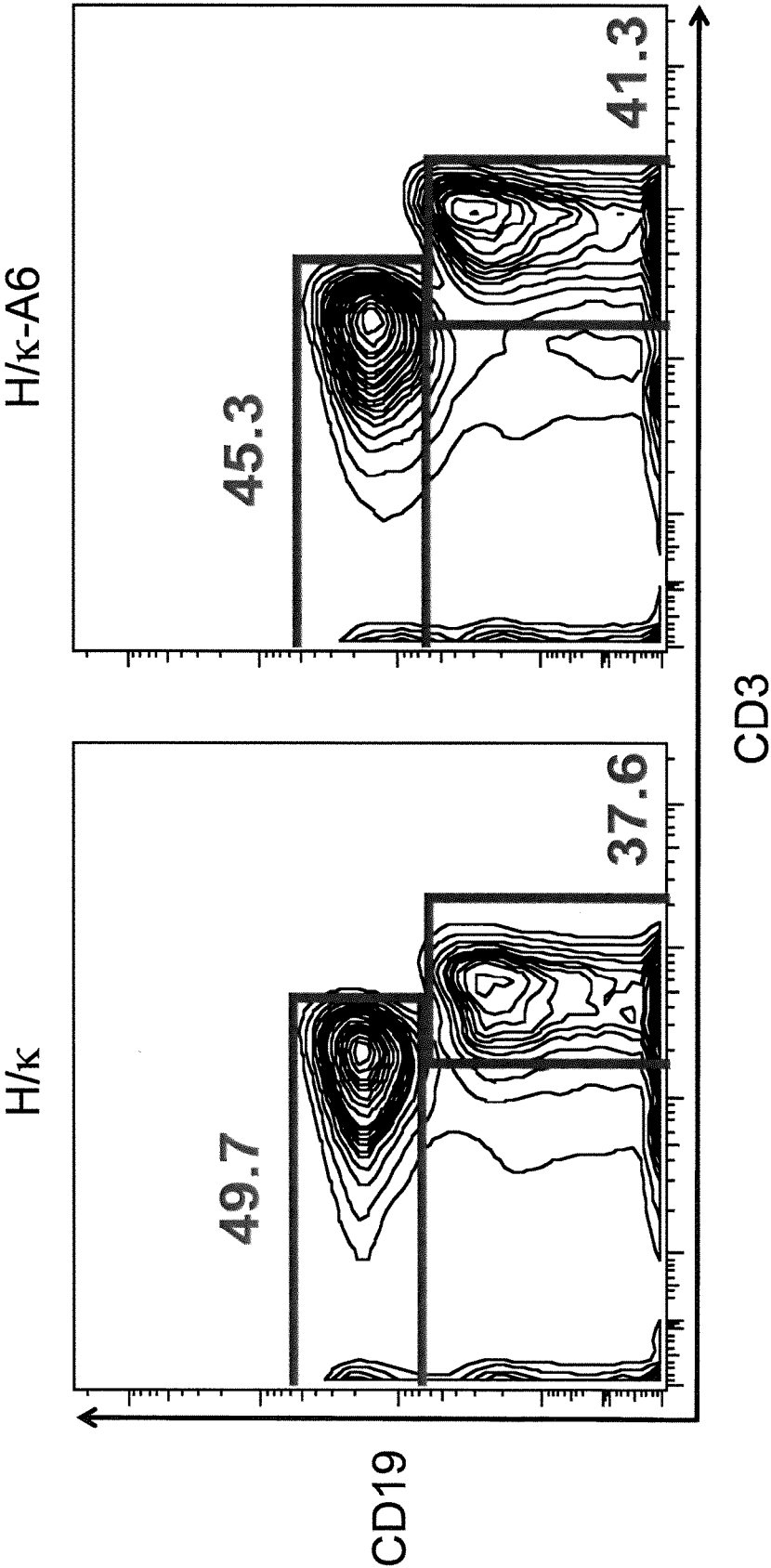


FIG. 17A

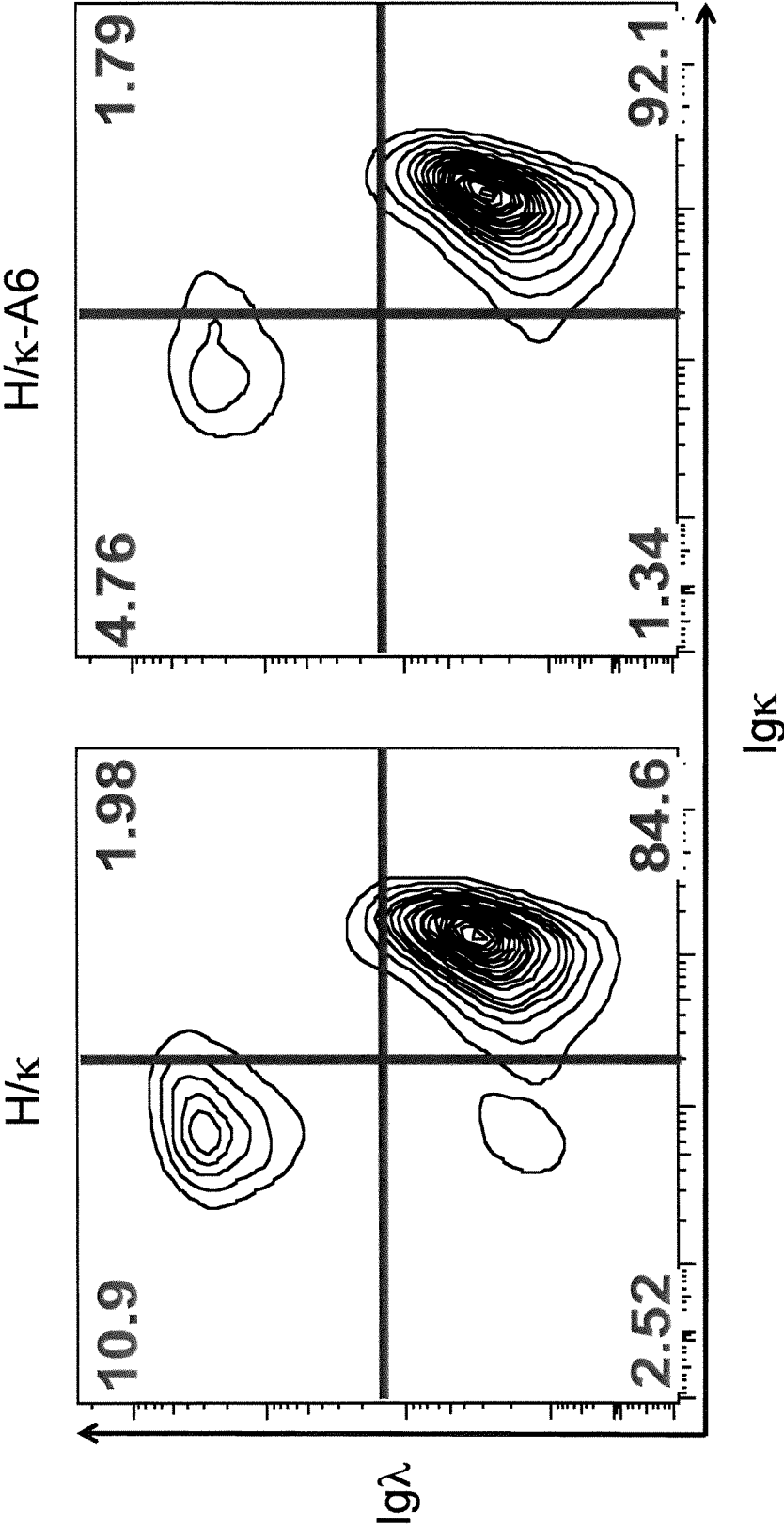
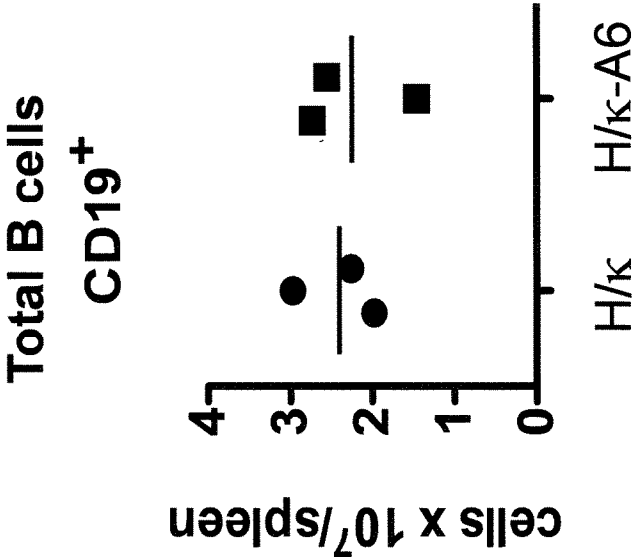


FIG. 17B

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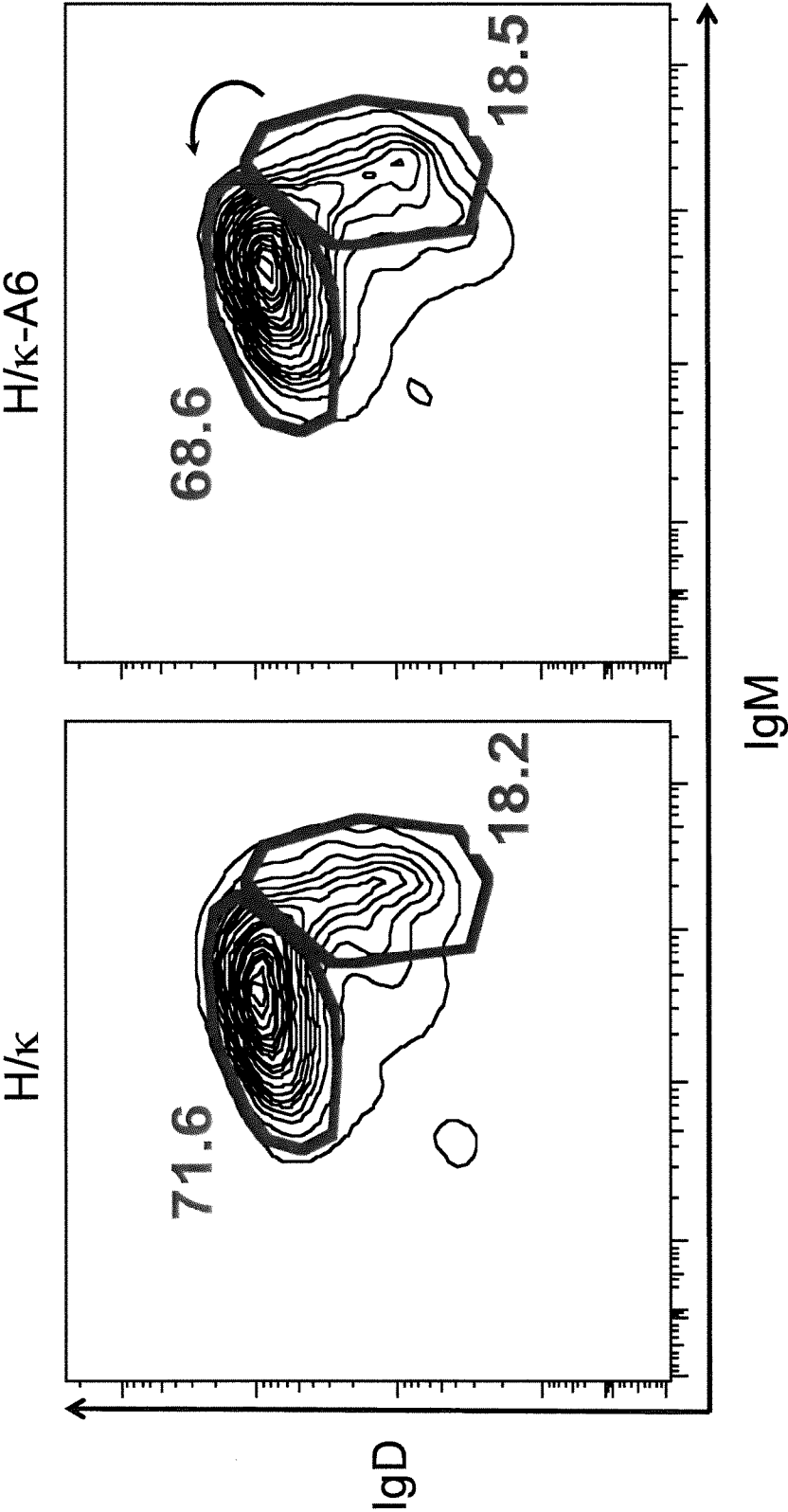


FIG. 18A

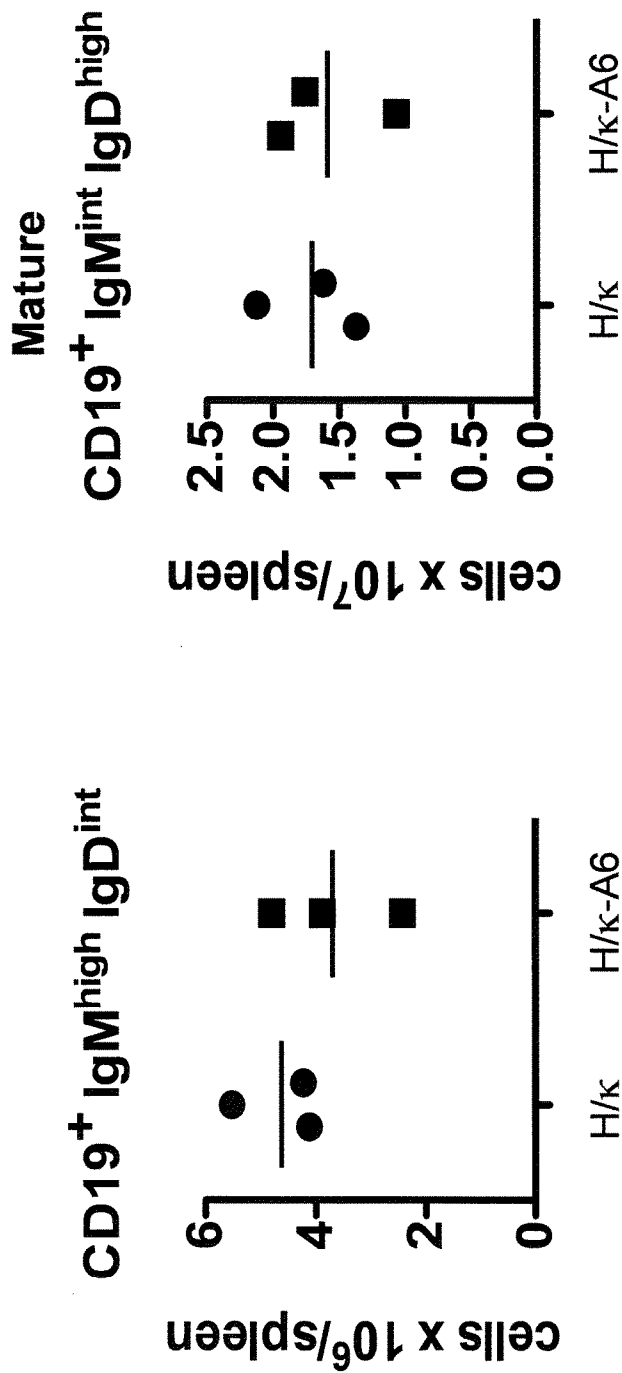


FIG. 18B

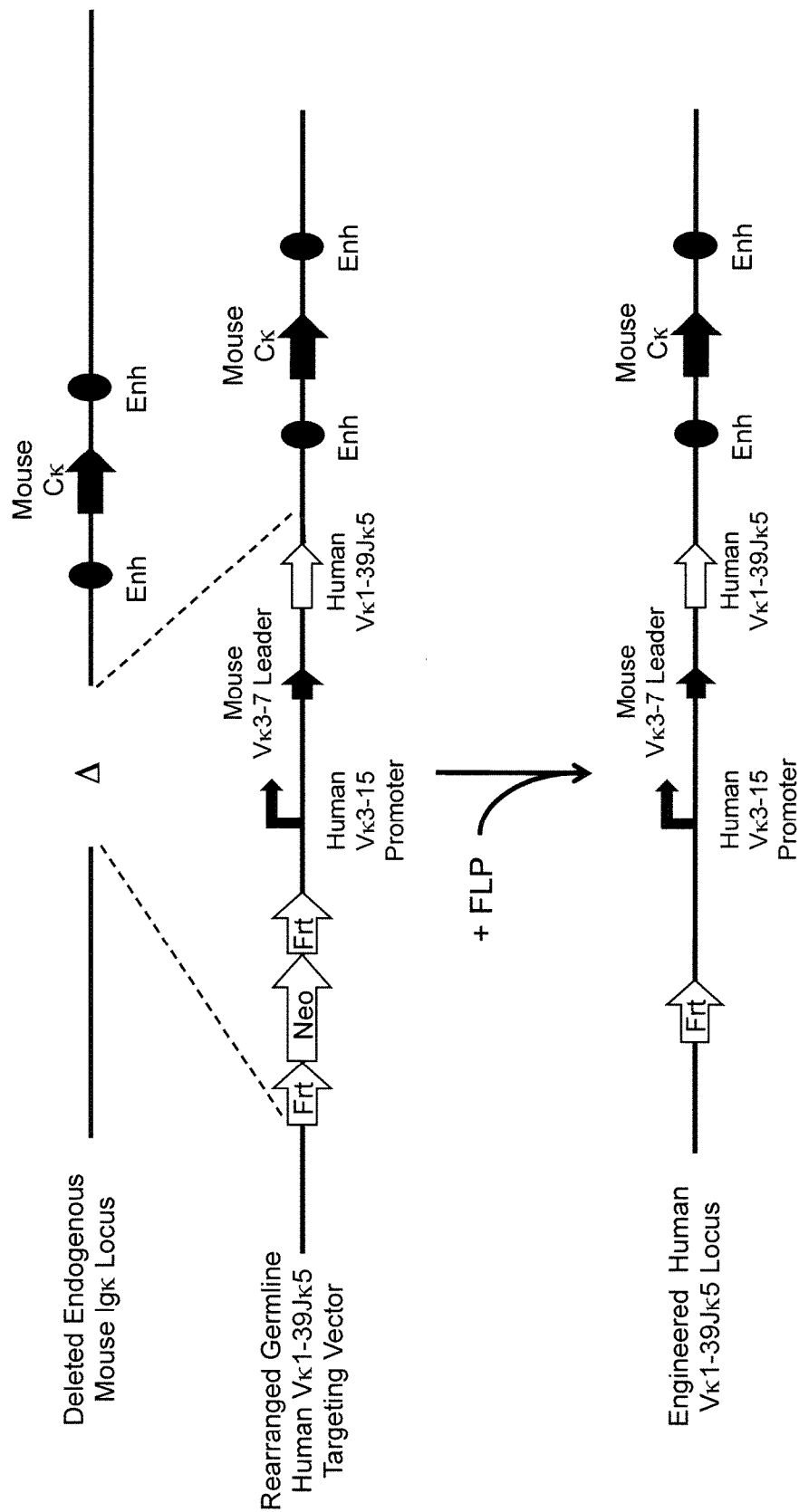


FIG. 19

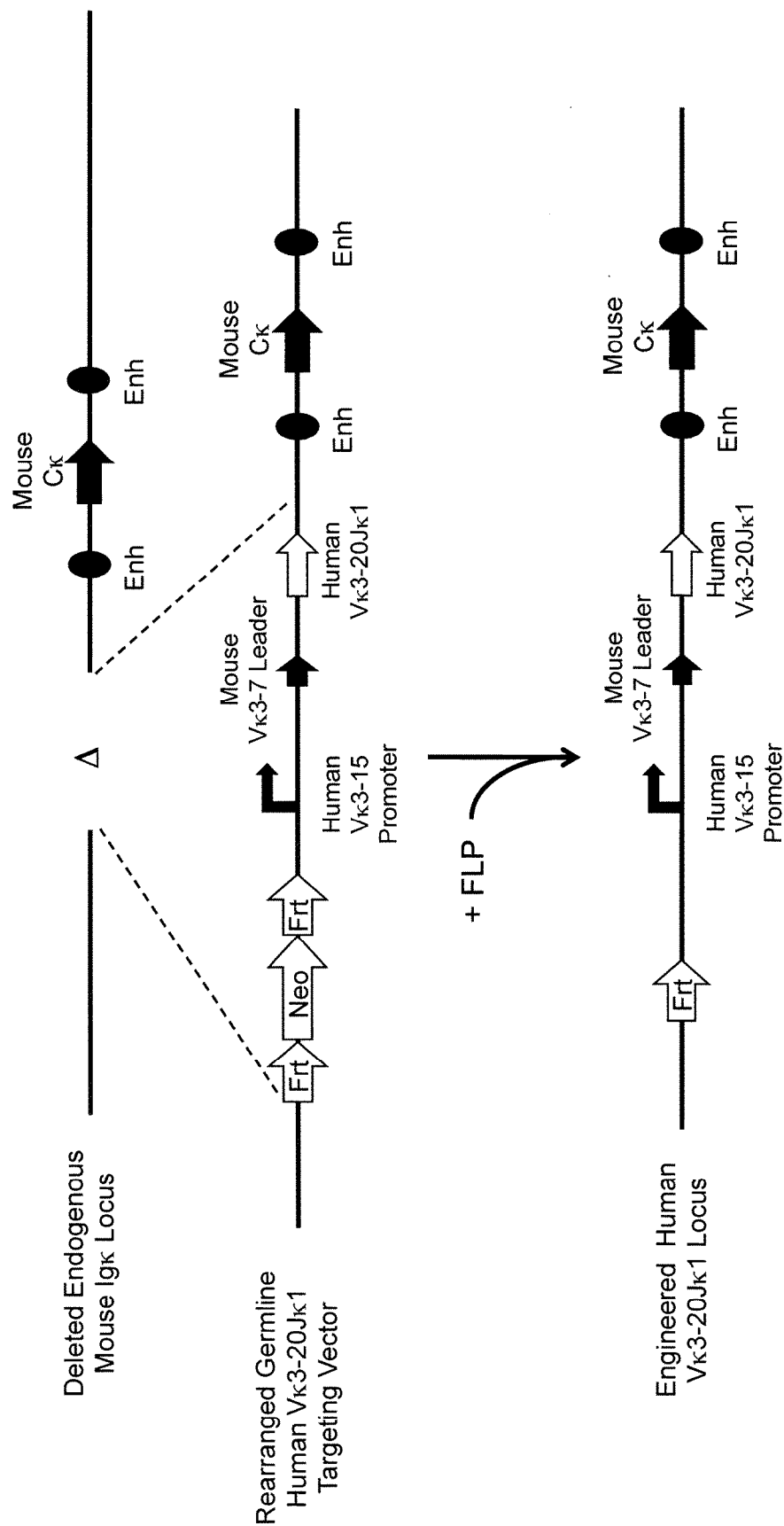


FIG. 20

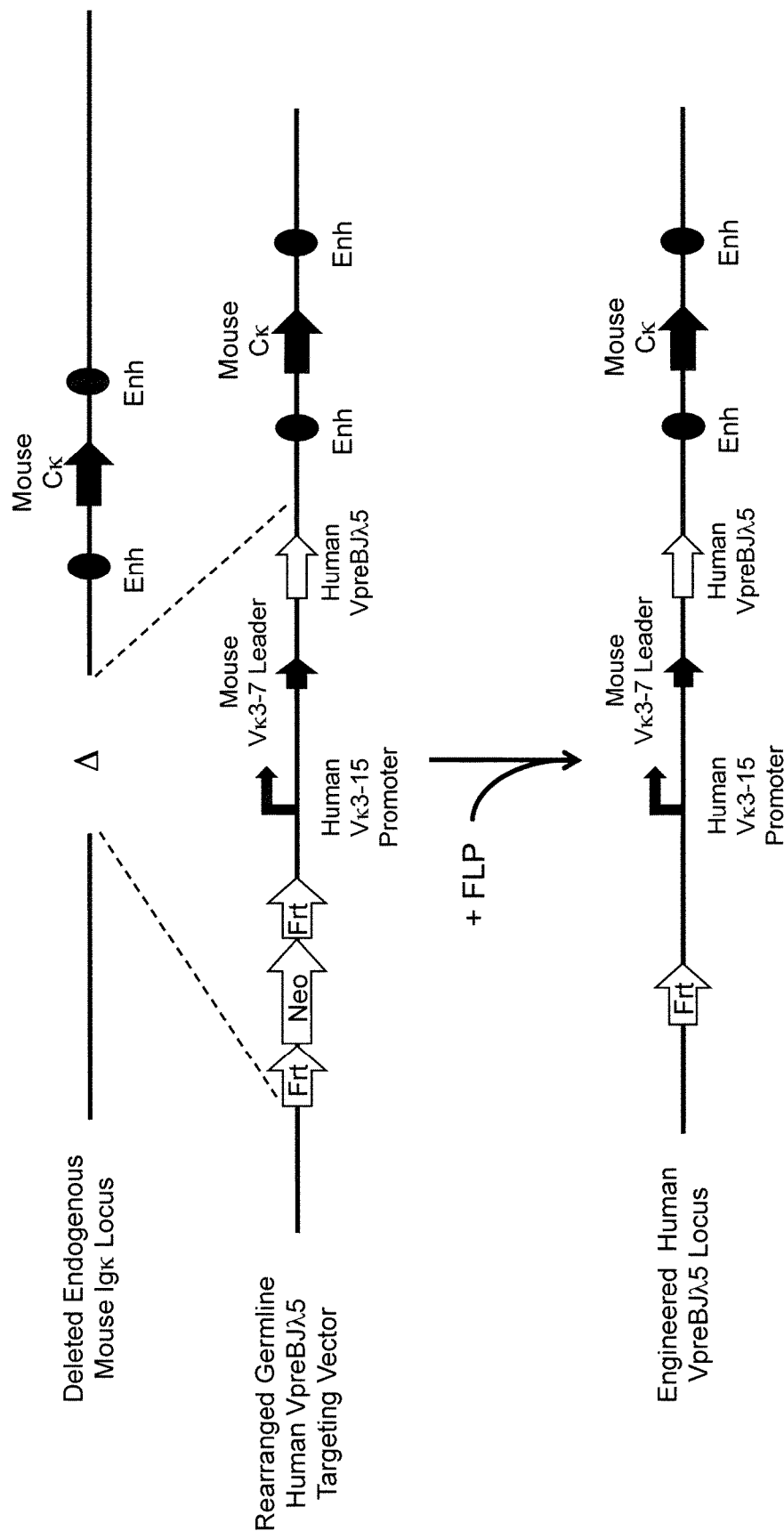


FIG. 21

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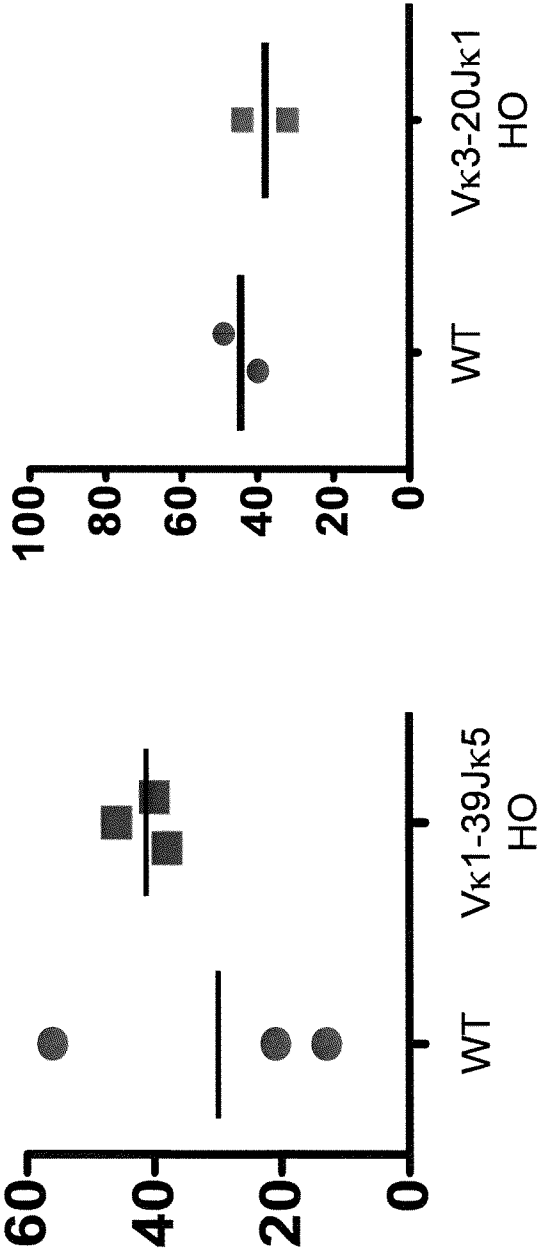


FIG. 22

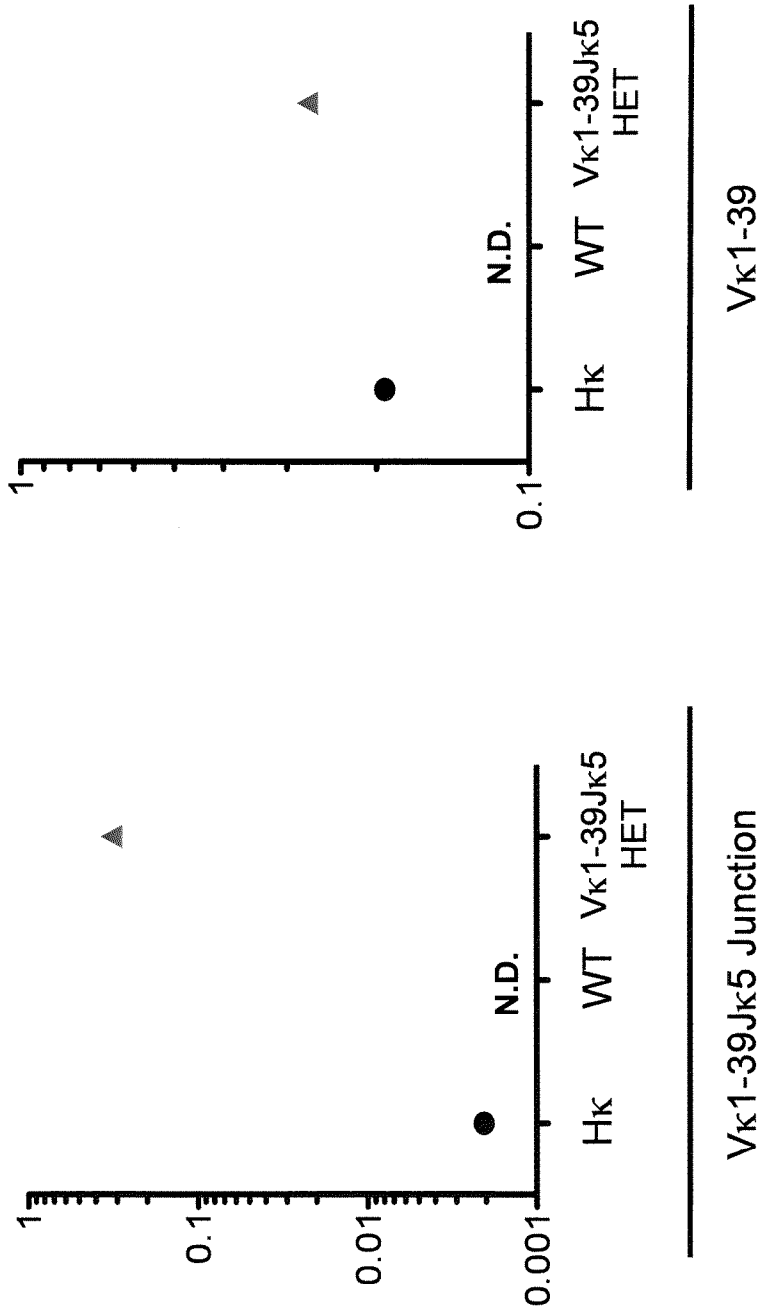


FIG. 23A

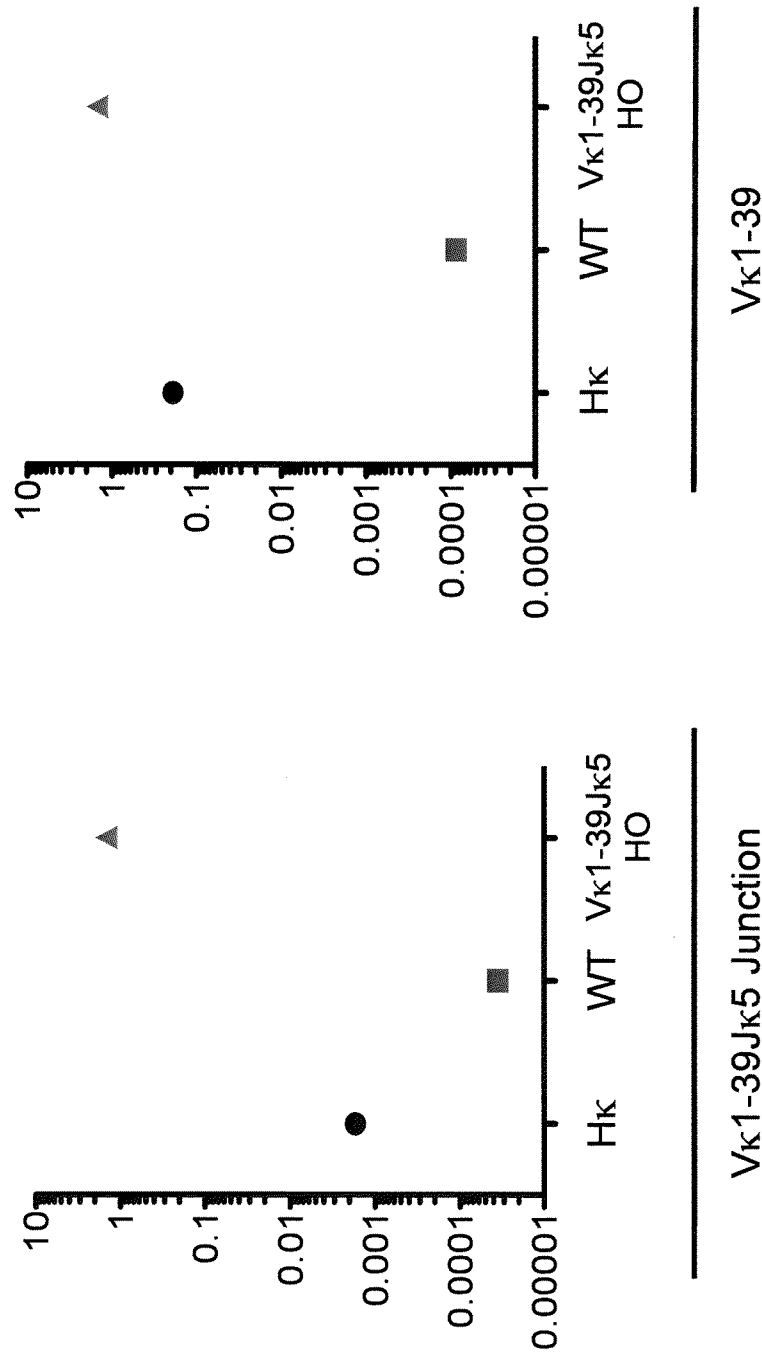


FIG. 23B

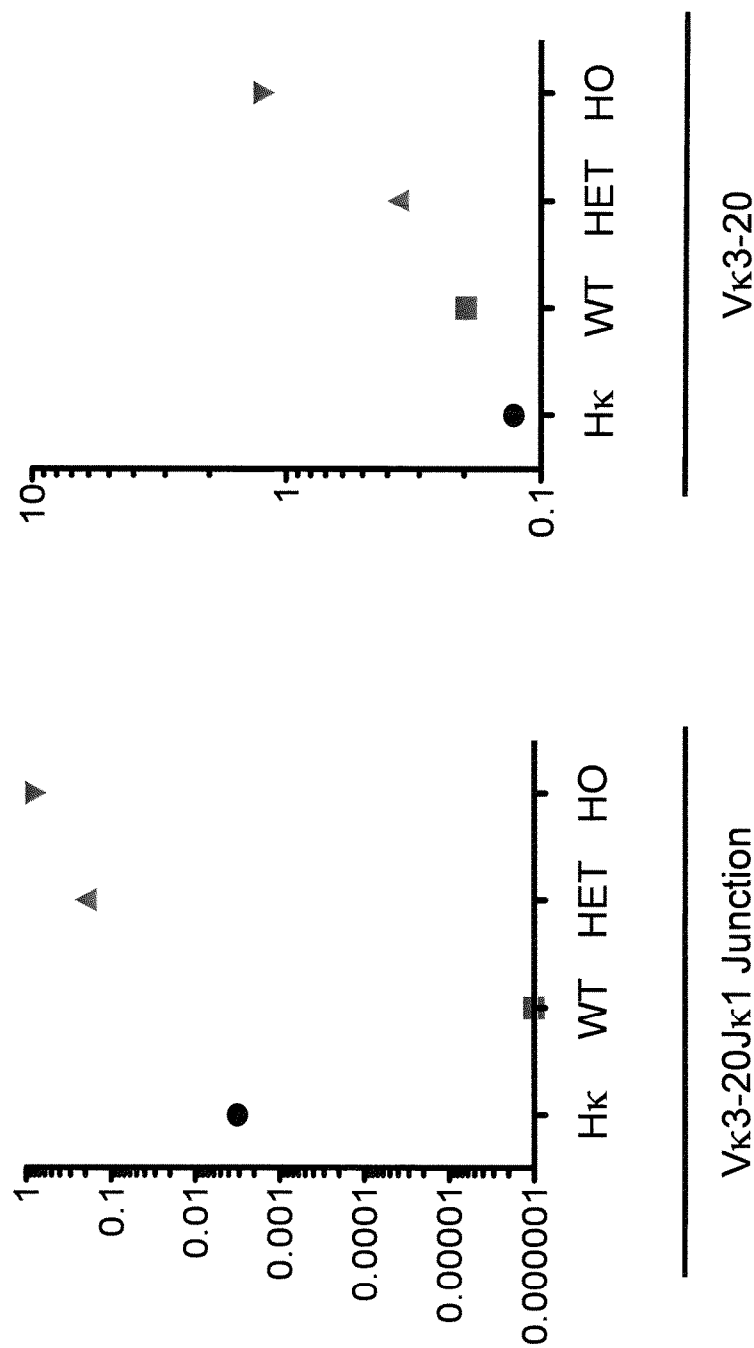


FIG. 23C

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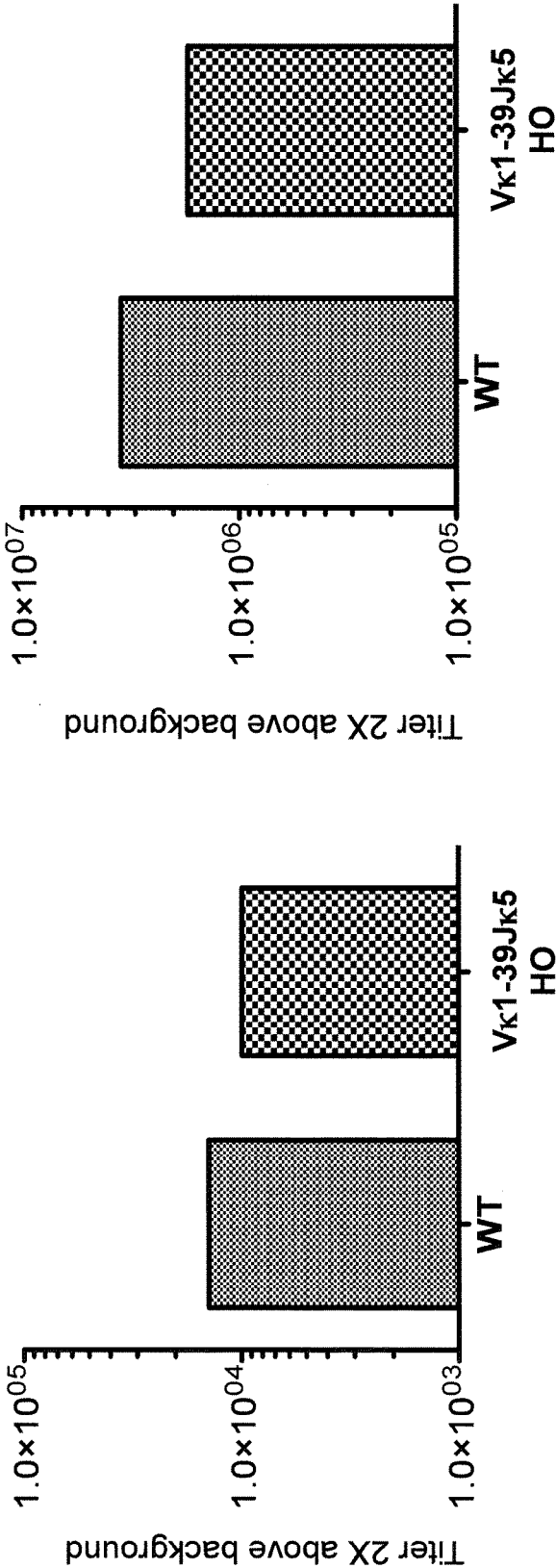


FIG. 24A

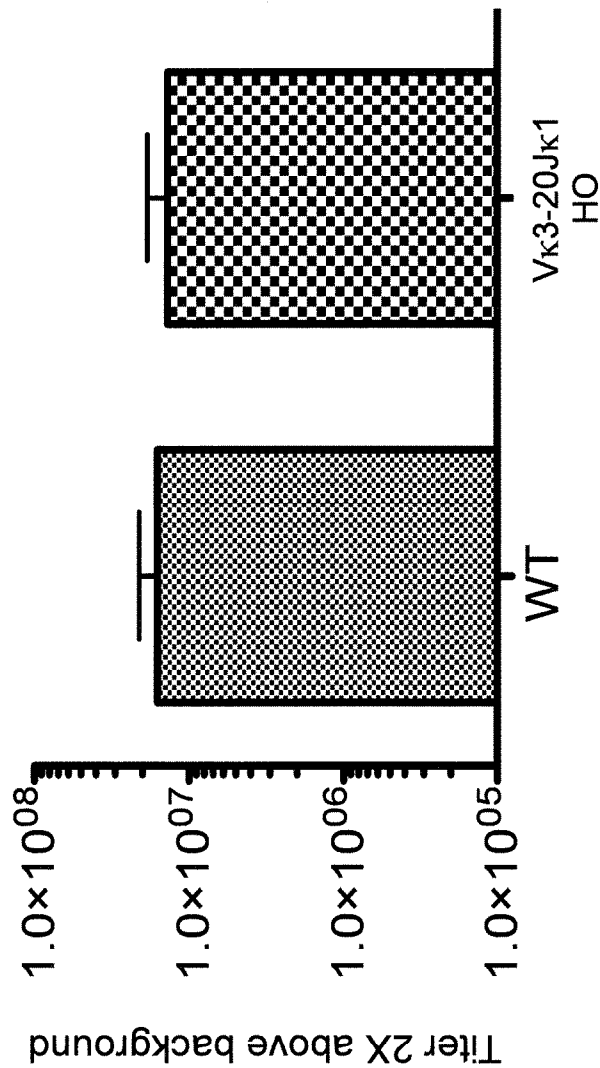


FIG. 24B