

FIG. 1A



FIG. 1B



FIG. 1C

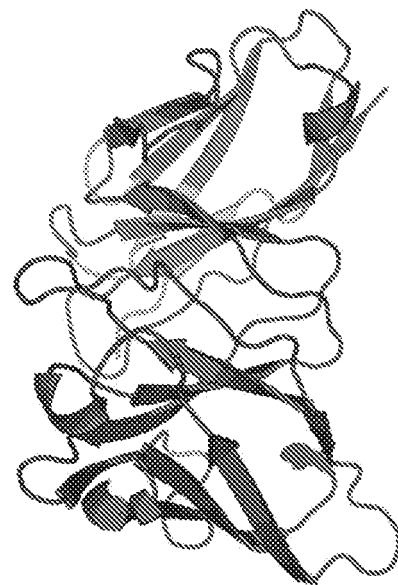


FIG. 1D

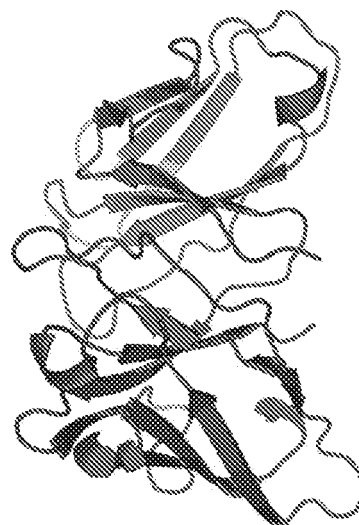


FIG. 1E

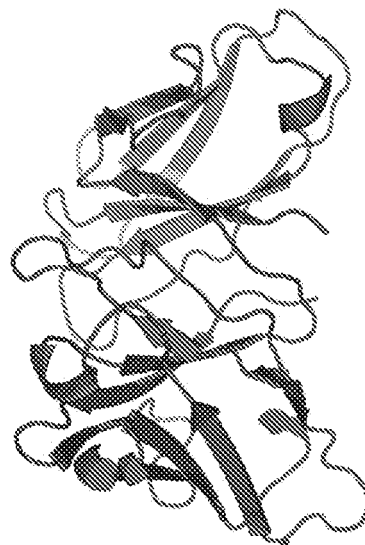


FIG. 2

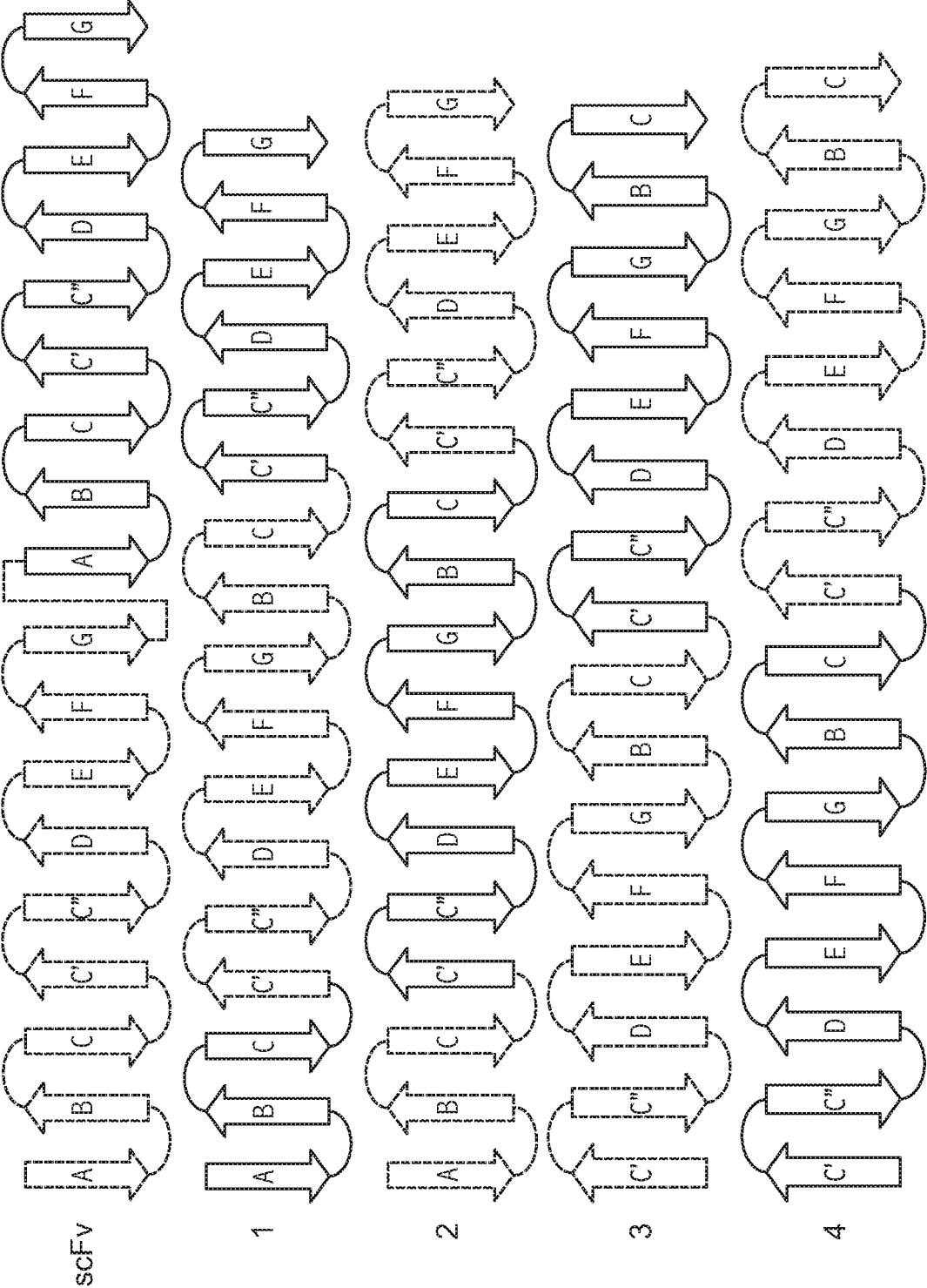


FIG. 3A

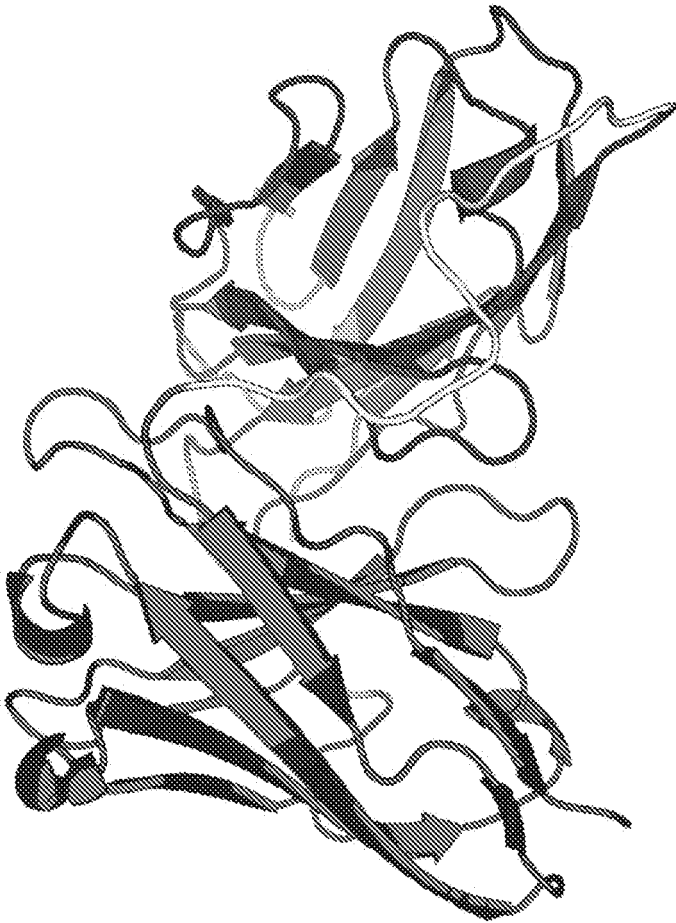
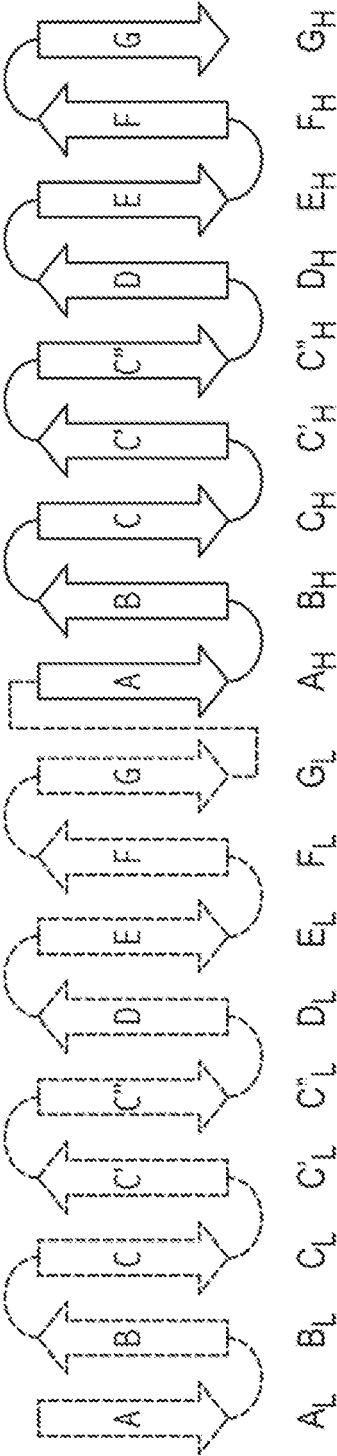


FIG. 3B



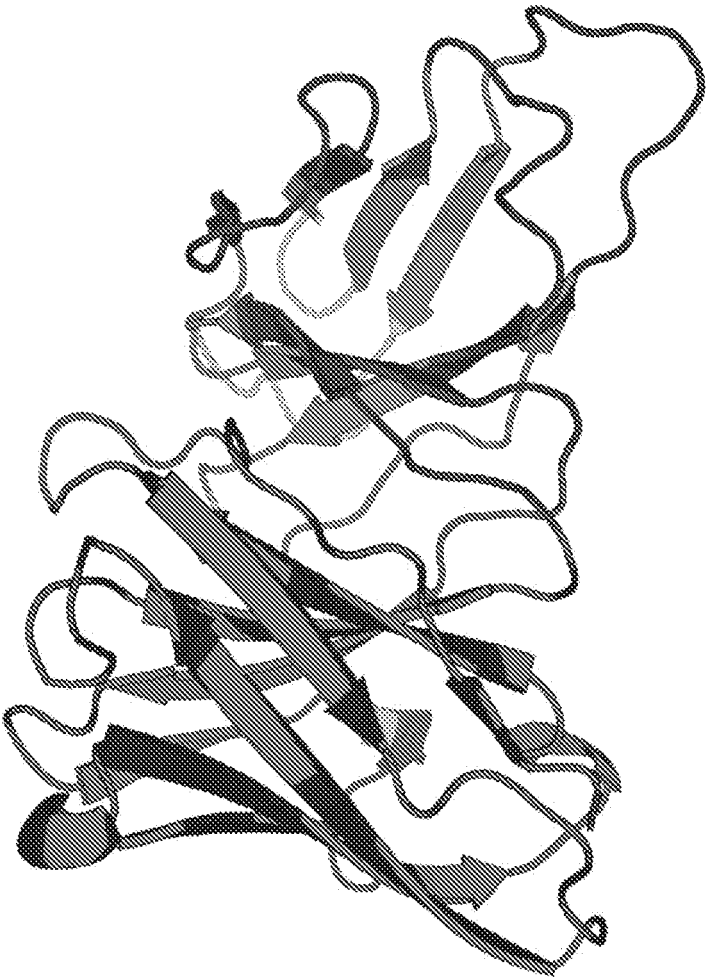


FIG. 4A

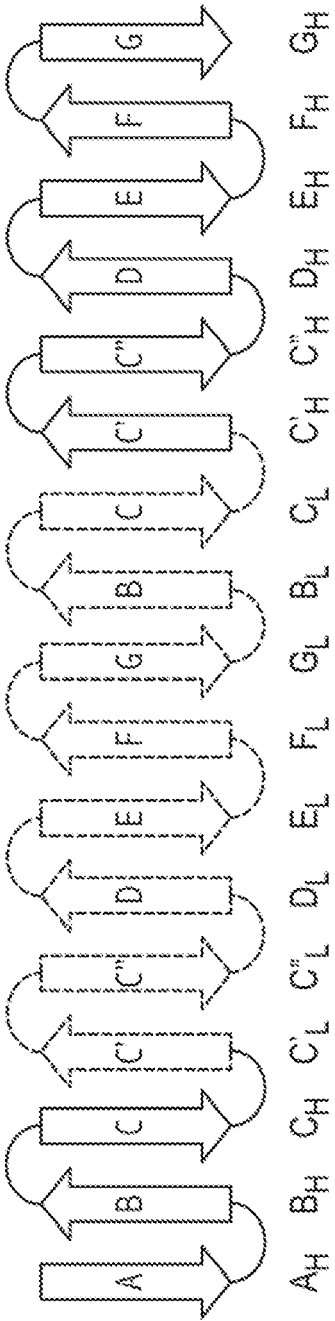


FIG. 4B

FIG. 5A



FIG. 5B

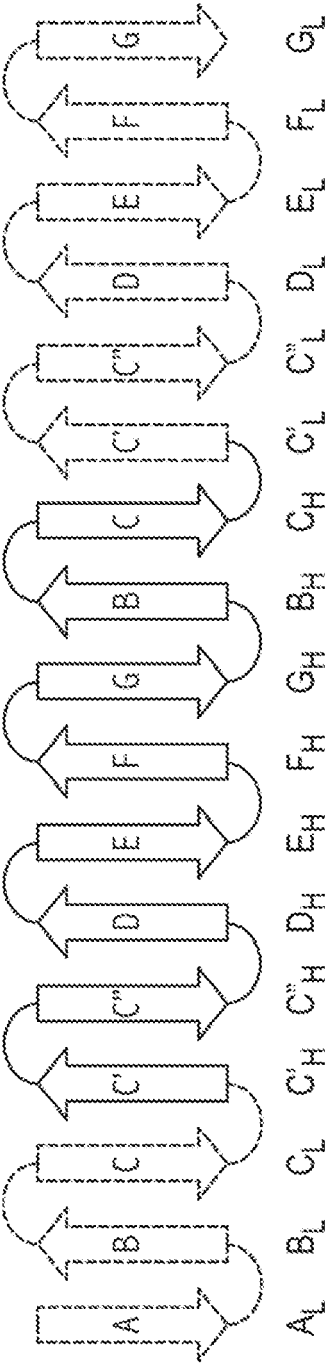




FIG. 6A

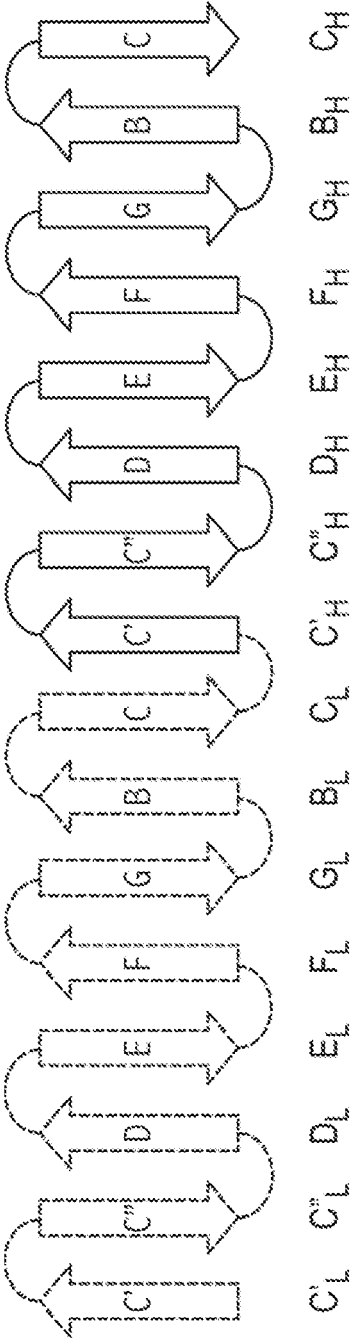
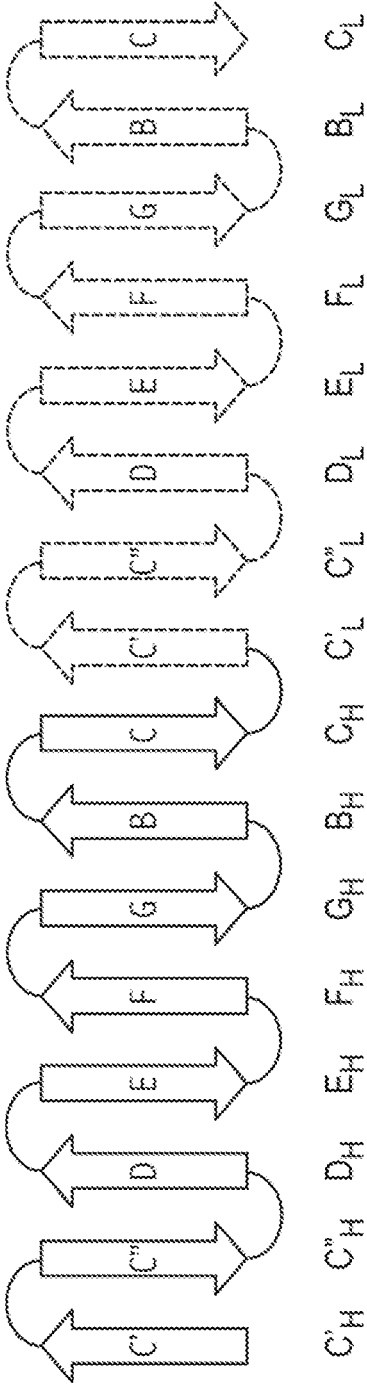


FIG. 6B

FIG. 7A



FIG. 7B



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FIG. 8

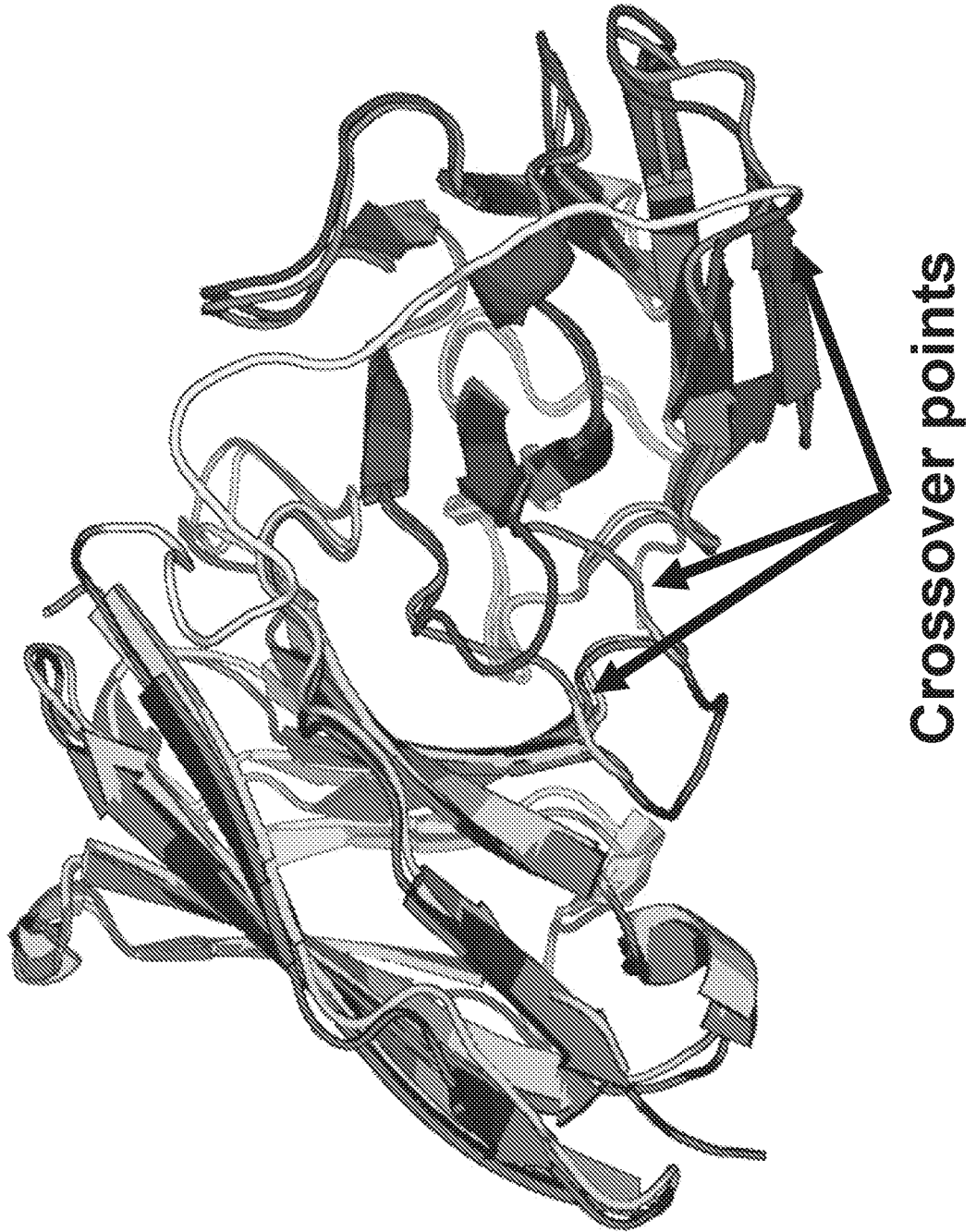


FIG. 9A

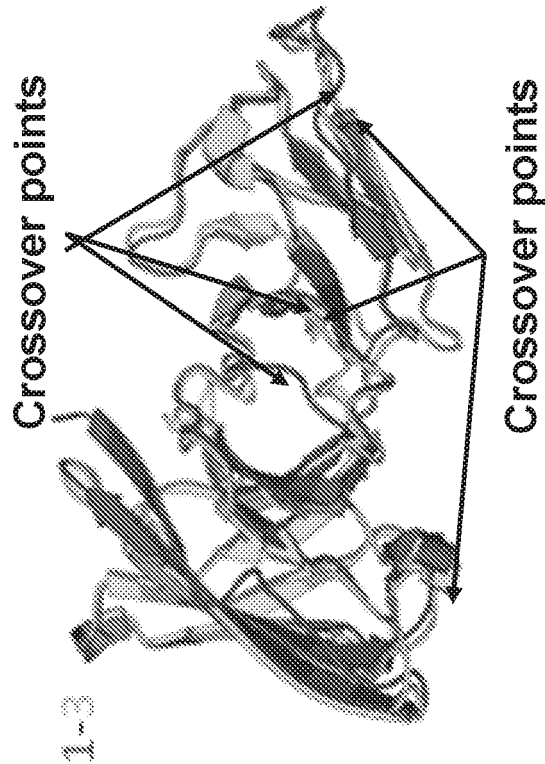
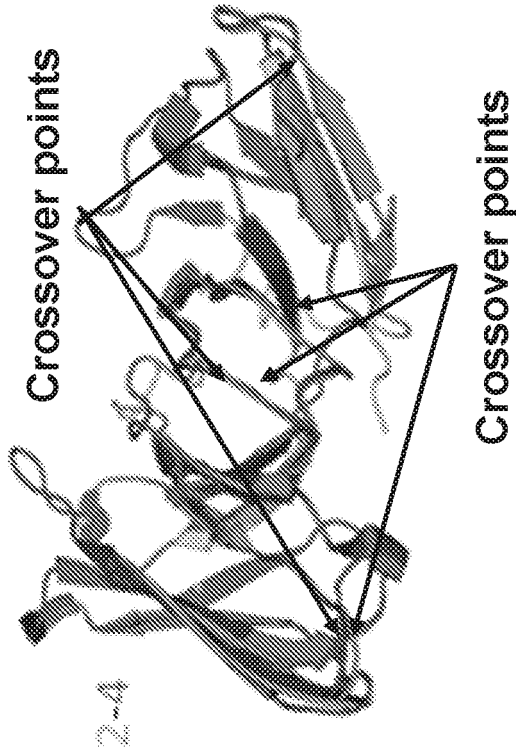


FIG. 9B



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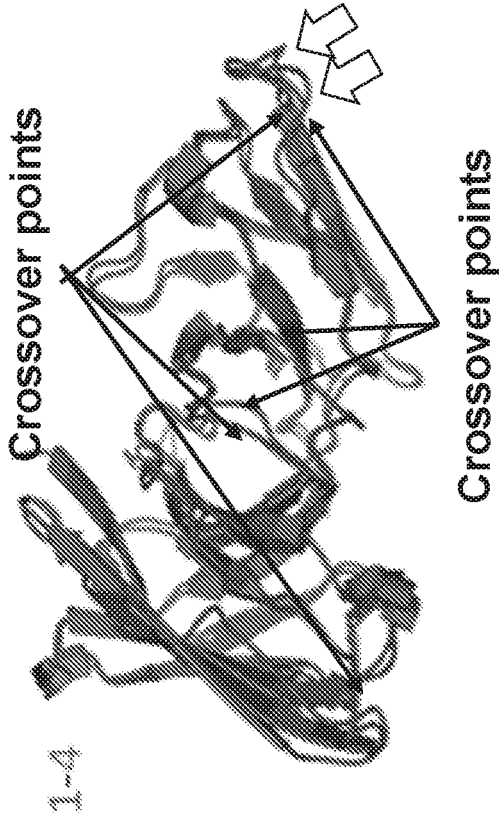


FIG. 9C

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FIG. 10

>1N8Z:A|VK (SEQ ID NO:34)
DIQMTQSPSSLSASVGDRVTITCRASQDVNTAVAWYQQKPGKAPKLLIYSASFLYSGVPSRFSSGRSGTDFTLTISSLQPEDFATYYCQQHYITPPIFGGGTKVEIKR

>1N8Z:B|VH (SEQ ID NO:54)
 EVQLVESGGGLVQPGGSLRLSCAASGFENIKDITYIHWRQAPGKGLEWVARIYPTINGYIRYADSVKGRFTISADTSKNTAYLQMNSLRAEDTAVYY
CSRWGGDGEFYAMDYWGQGTLVTVSSQP

>xscFv 1 (SEQ ID NO:36)
 EVQLVESGGGLVQPGGSLRLSCAASGFENIKDITYIHWRQAPGKAPKLLIYSASFLYSGVPSRFSSGRSGTDFTLTISSLQPEDFATYYCQQHYITPIFGGGTKVEIKRSVGDRVTITCRASQDVNTAVAWYQQKPGKGLEWVARIYPTINGYIRYADSVKGRFTISADTSKNTAYLQMNSLRAEDTAVYY
CSRWGGDGEFYAMDYWGQGTLVTVSS

>xscFv 2 (SEQ ID NO:37)
DIQMTQSPSSLSASVGDRVTITCRASQDVNTAVAWYQQKPGKGLEWVARIYPTINGYIRYADSVKGRFTISADTSKNTAYLQMNSLRAEDTAVYYC
SRWGGDGEFYAMDYWGQGTLVTVSSQPGGSLRLSCAASGFENIKDITYIHWRQAPGKAPKLLIYSASFLYSGVPSRFSSGRSGTDFTLTISSLQPEDFATYYCQQHYITPPIFGGGTKVEIKR

>xscFv 3 (SEQ ID NO:38)
GKAPKLLIYSASFLYSGVPSRFSSGRSGTDFTLTISSLQPEDFATYYCQQHYITPPIFGGGTKVEIKRSVGDRVTITCRASQDVNTAVAWYQQKPGKGLEWVARIYPTINGYIRYADSVKGRFTISADTSKNTAYLQMNSLRAEDTAVYYCSRWGGDGEFYAMDYWGQGTLVTVSSQPGGSLRLSCAASGFENIKDITYIHWRQAP

>xscFv 4 (SEQ ID NO:39)
 GKGLEWVARIYPTINGYIRYADSVKGRFTISADTSKNTAYLQMNSLRAEDTAVYYCSRWGGDGEFYAMDYWGQGTLVTVSSQPGGSLRLSCAASGFENIKDITYIHWRQAPGKAPKLLIYSASFLYSGVPSRFSSGRSGTDFTLTISSLQPEDFATYYCQQHYITPPIFGGGTKVEIKRSVGDRVTITCRASQDVNTAVAWYQQKPGKGLEWVARIYPTINGYIRYADSVKGRFTISADTSKNTAYLQMNSLRAEDTAVYYCSRWGGDGEFYAMDYWGQGTLVTVSSQPGGSLRLSCAASGFENIKDITYIHWRQAP

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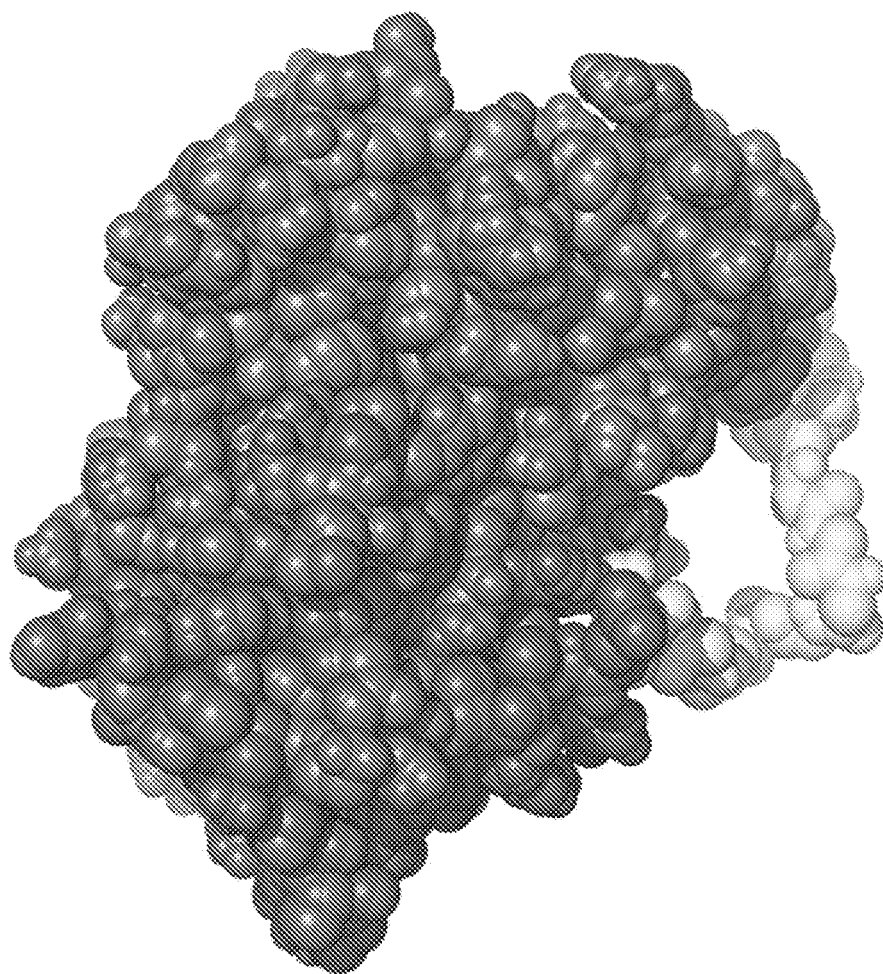
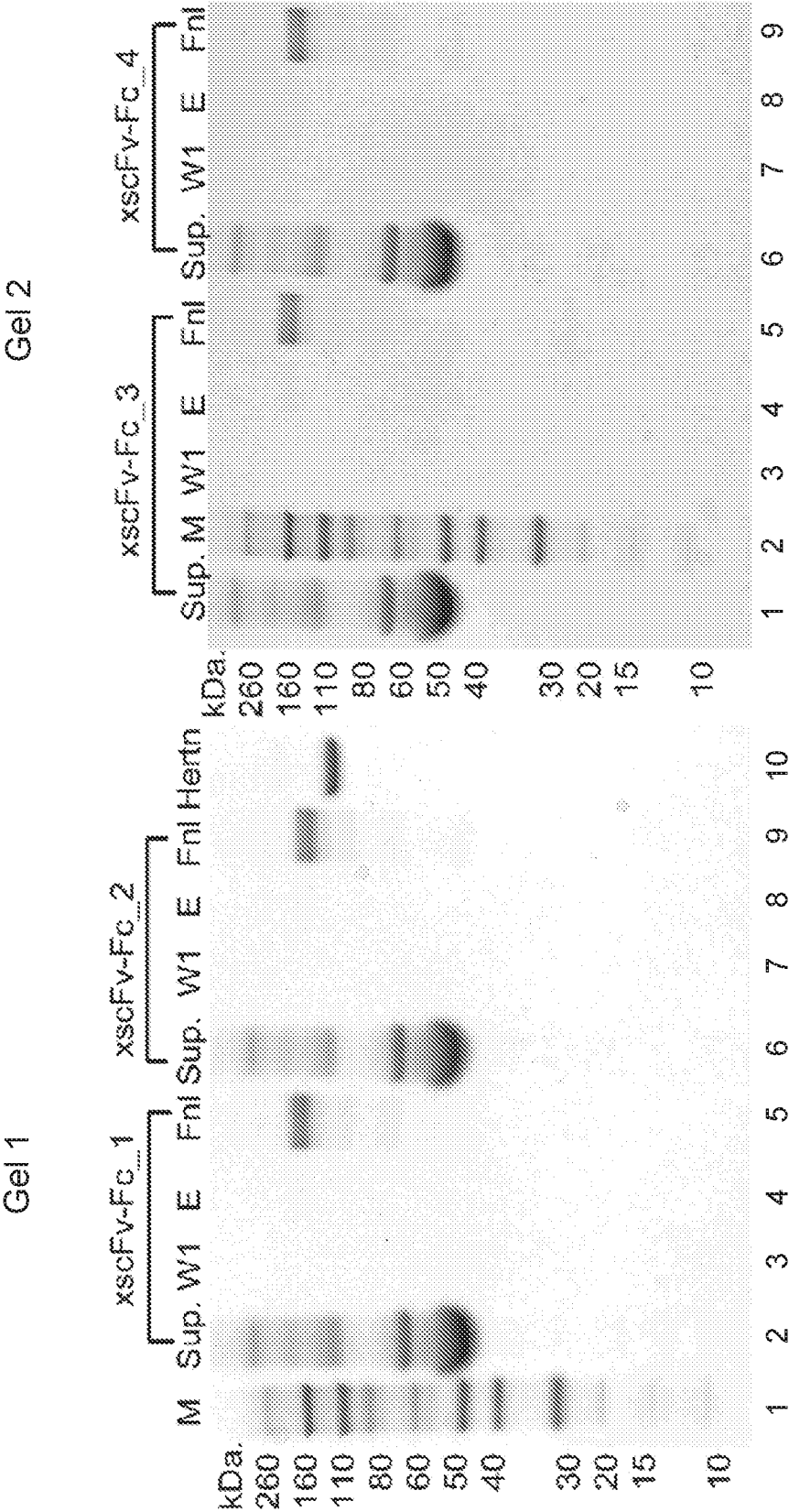


FIG. 11

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FIG. 12



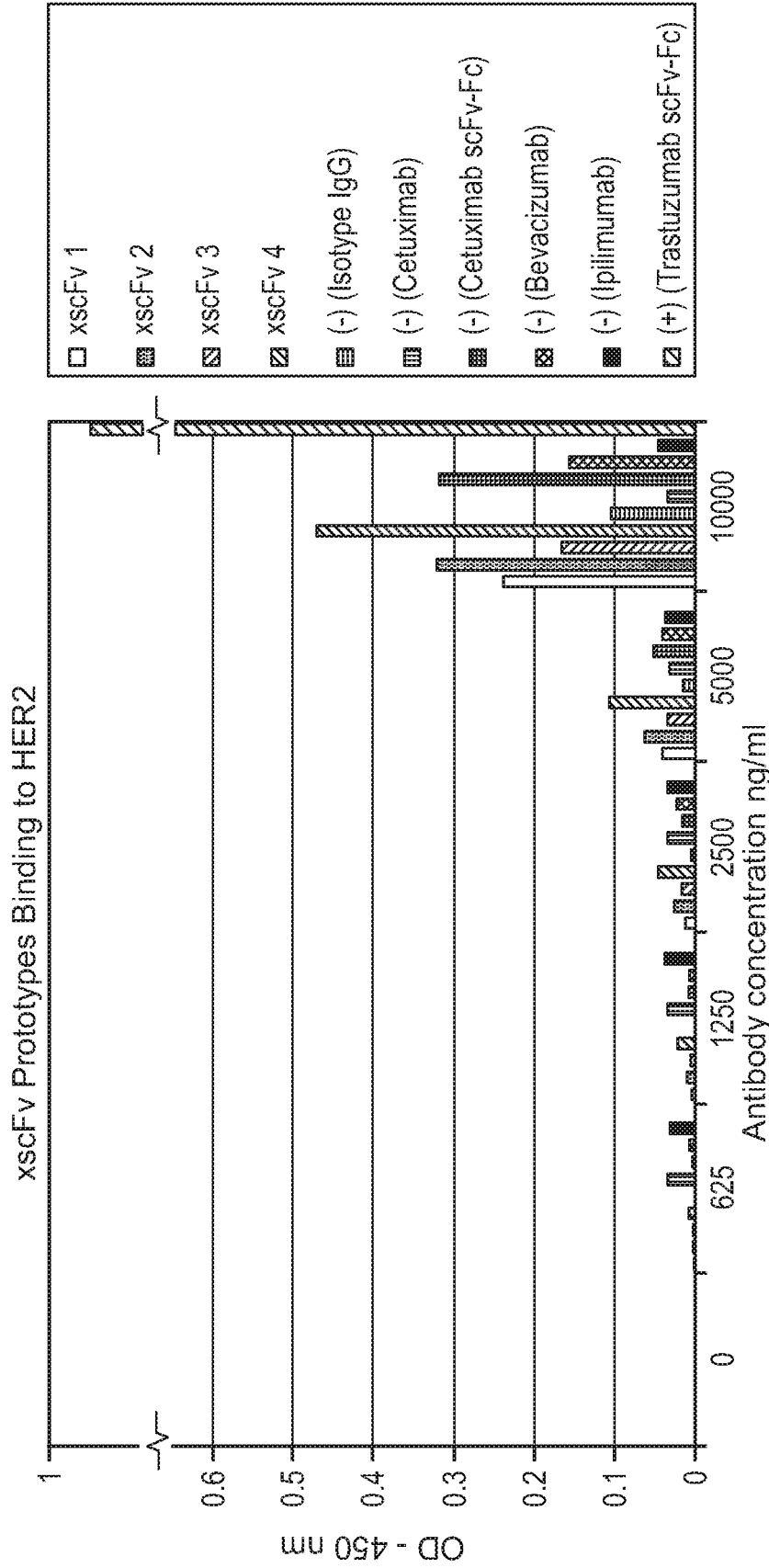


FIG. 13

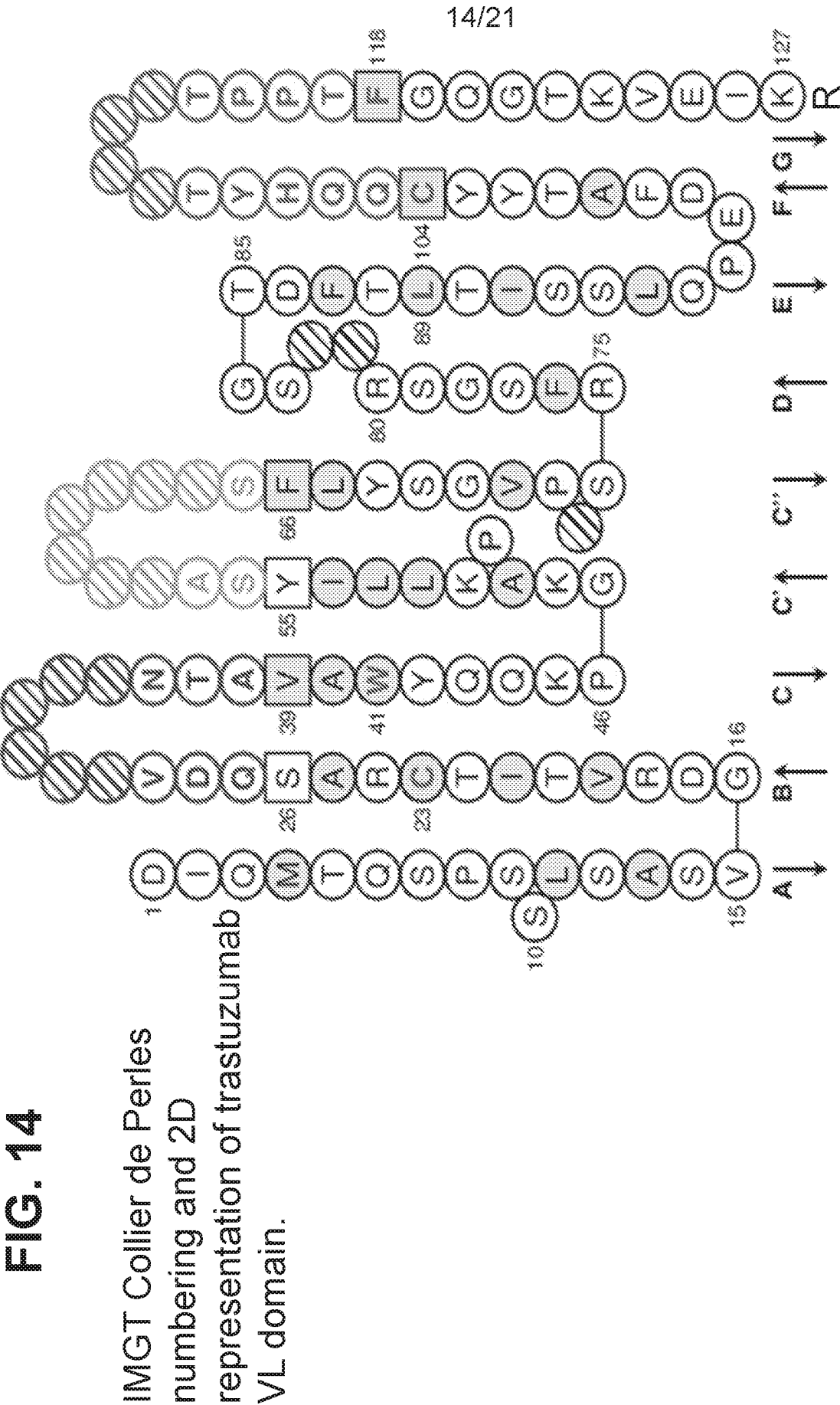


FIG. 15

VL domain segments used in generating xscFv1-4

A _L	DIQMTQSPSSLASV	(SEQ ID NO:1)
B _L	GDRVITICRASQDV	(SEQ ID NO:2)
C _L	NTAVAWYQQKP	(SEQ ID NO:3)
C' _L	GKAPKLLIYA	(SEQ ID NO:4)
C'' _L	SFLYSGVPS	(SEQ ID NO:5)
D _L	RFSGSRSG	(SEQ ID NO:6)
E _L	TDFTLTISLQP	(SEQ ID NO:7)
F _L	EDFATYCCQQHYT	(SEQ ID NO:8)
G _L	TPPTFGQGTKVEIKR	(SEQ ID NO:10)

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IMGT Collier de Perles
numbering and 2D
representation of trastuzumab
VH domain.

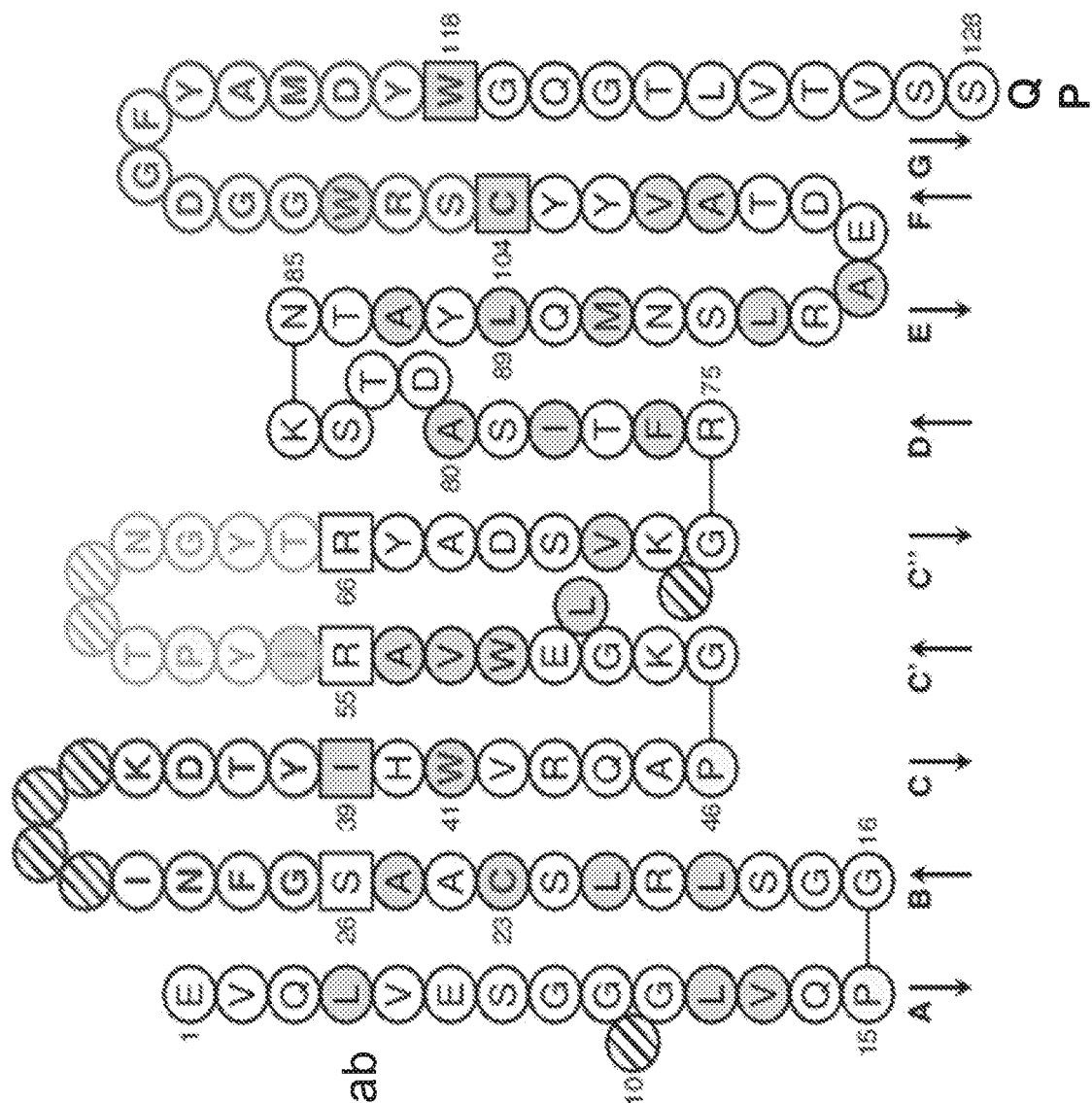


FIG. 17

VH domain segments used in generating xscFv1-4

A_H	EVQLVESGGGLVQP	(SEQ ID NO:11)
B_H	GGSLRLSCAASGFNI	(SEQ ID NO:12)
C_H	KDTYIHWRQAP	(SEQ ID NO:13)
C'_H	GKGLEWVARIYPT	(SEQ ID NO:14)
C''_H	NGYTRYADSVKG	(SEQ ID NO:15)
D_H	RFTISADTSK	(SEQ ID NO:16)
E_H	NTAYLQMNSLRA	(SEQ ID NO:17)
F_H	EDTAVYYCSRWGGDG	(SEQ ID NO:18)
G_H	FYAMDYWGQGTLTVSSQP	(SEQ ID NO:20)

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FIG. 18

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FIG. 19

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FIG. 20

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FIG. 21