

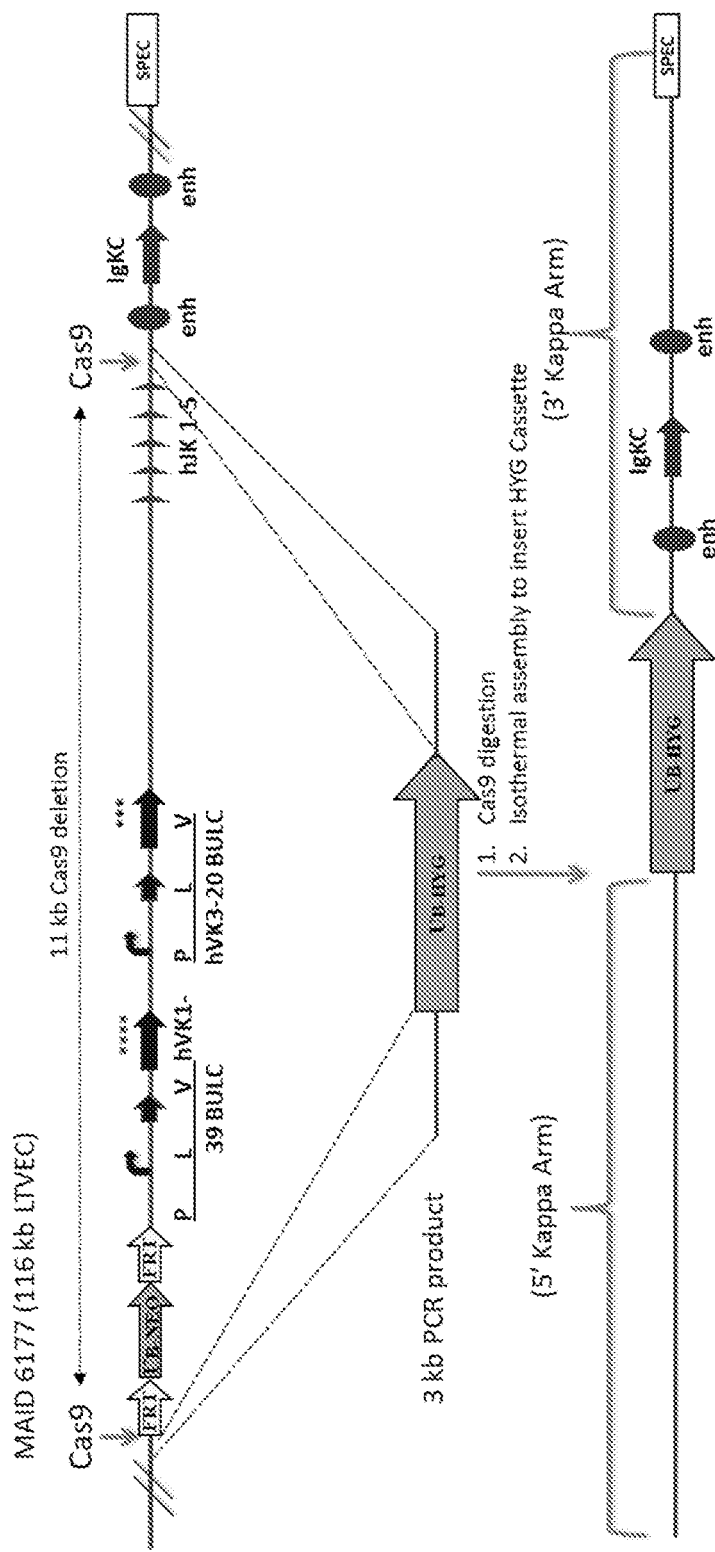


FIG. 1

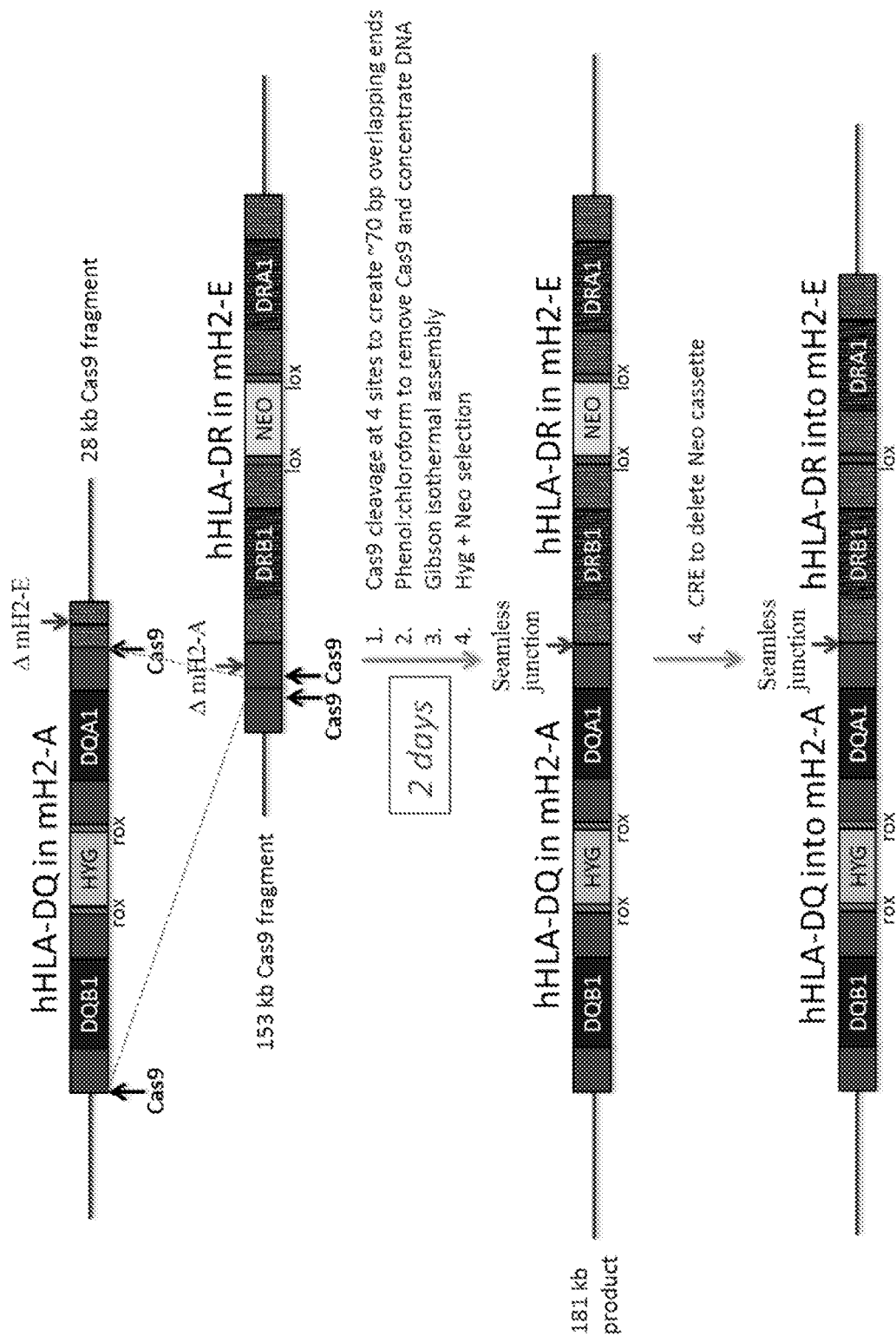


FIG. 2

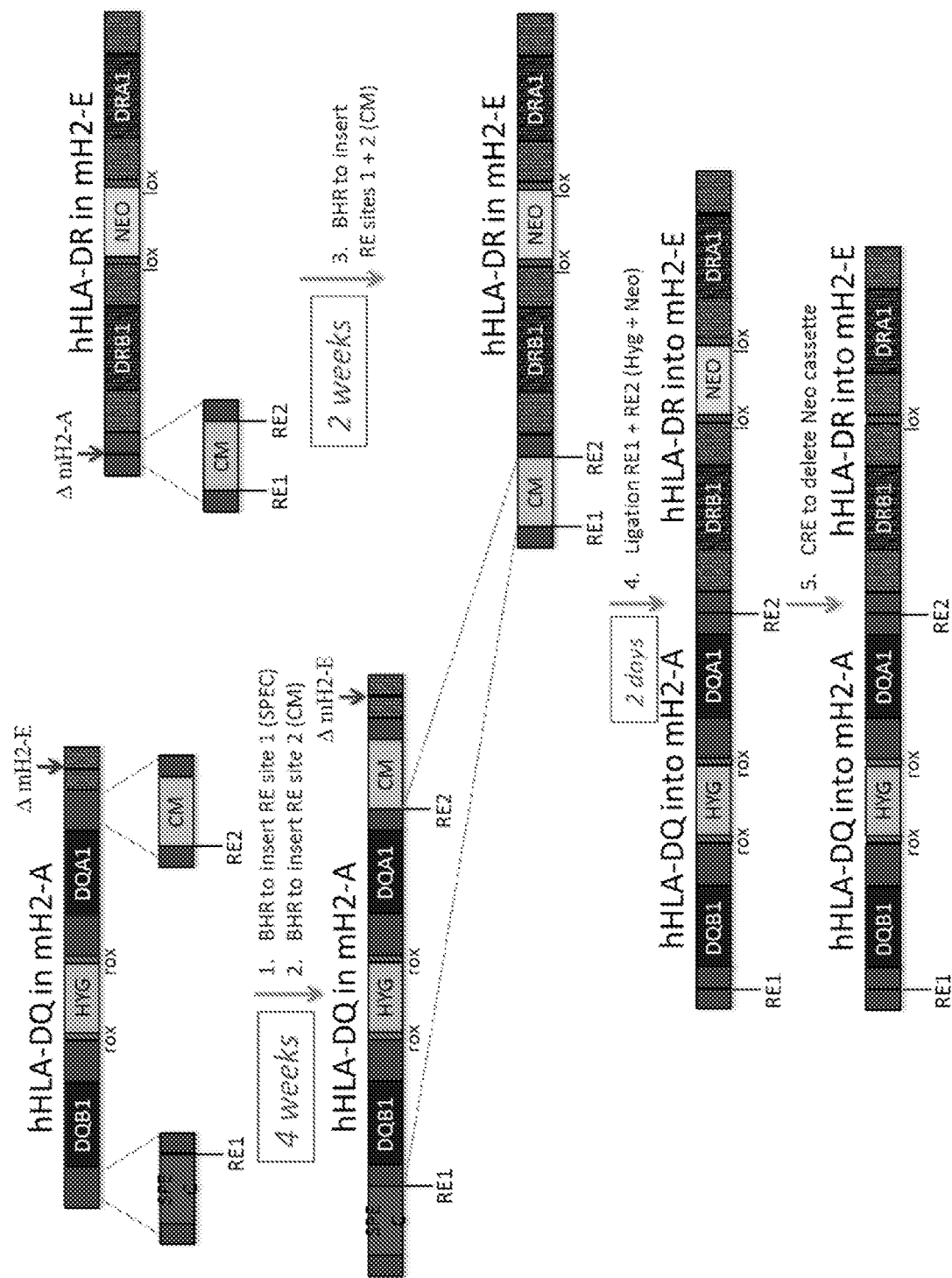


FIG. 3

Cloning efficiencies for Cas9/Gibson Assembly method				
Construct	Cas9 used	Method for removing Cas9	total # colonies	# (%) correct clones
6177(BDLC) + HYG	Cas9-6xHis	Proteinase K	3	3 (100)
HLA-DQ + HLA-DR	6xHis-MBP-Cas9	Proteinase K, phenol:chloroform	1	1 (100)
		SDS, heat inact, phenol:chloroform	1	1 (100)
		Heat inact, phenol:chloroform	16	16 (100)

Time required for BAC cloning steps §	
Method	Time
BHR	~ 1 week
BHR + BAC Ligation	>2 weeks
2 BHRs + BAC ligation	~ 5 weeks
Cas9/Gibson Assembly	2 days
§ starting from BAC maxiprep DNA ending with E. coli colonies	
BHR: bacterial homologous recombination	

FIG. 4

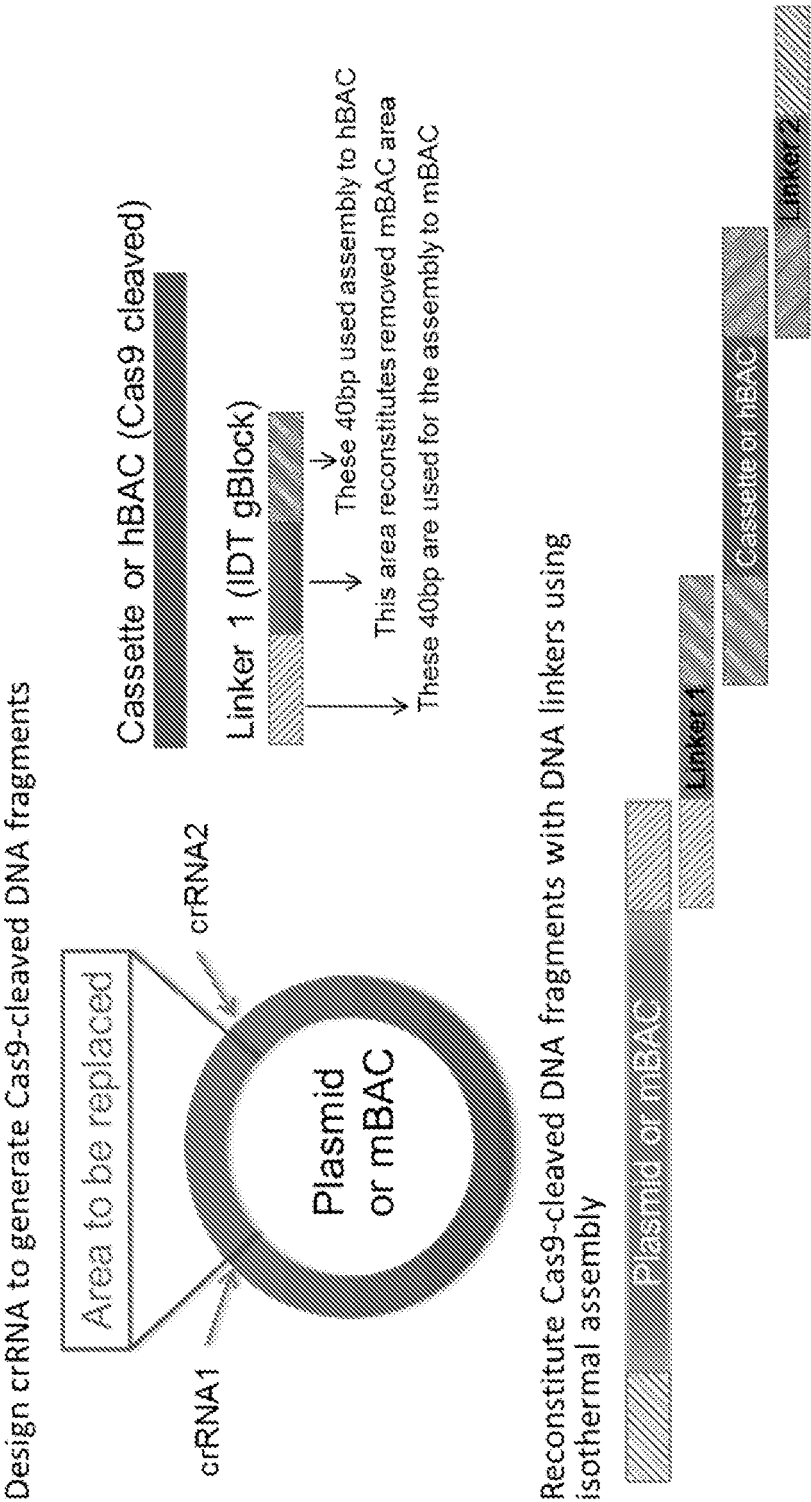


FIG. 5

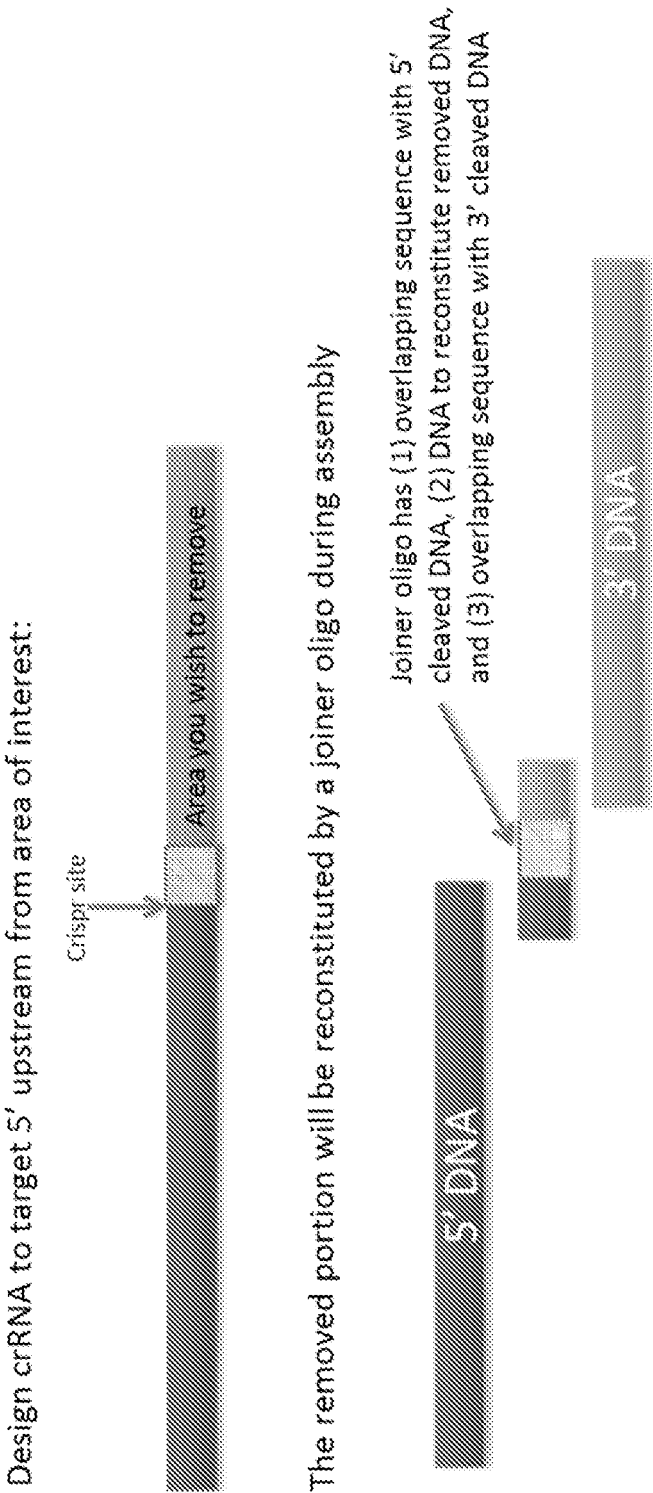


FIG. 6

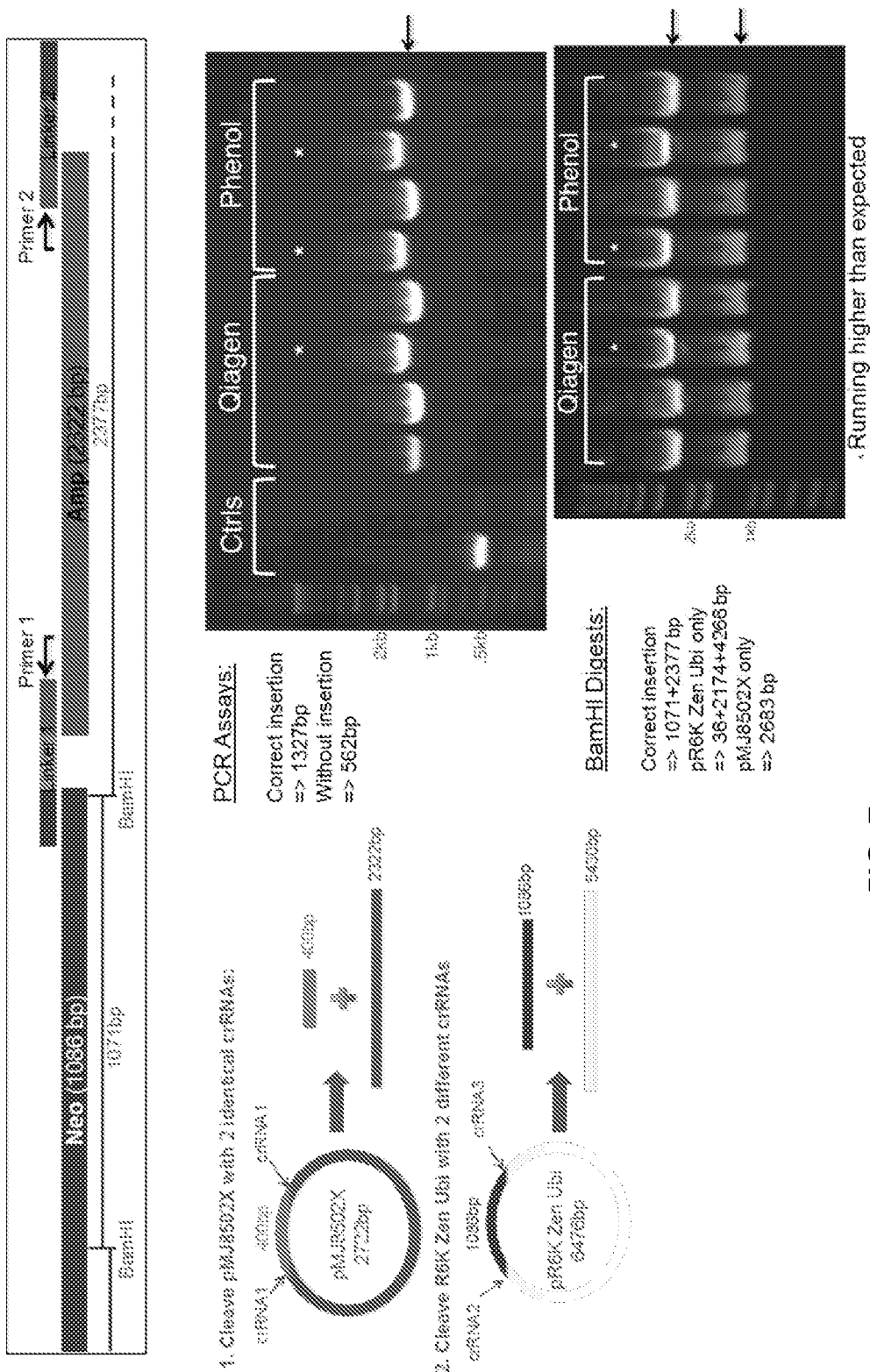


FIG. 7

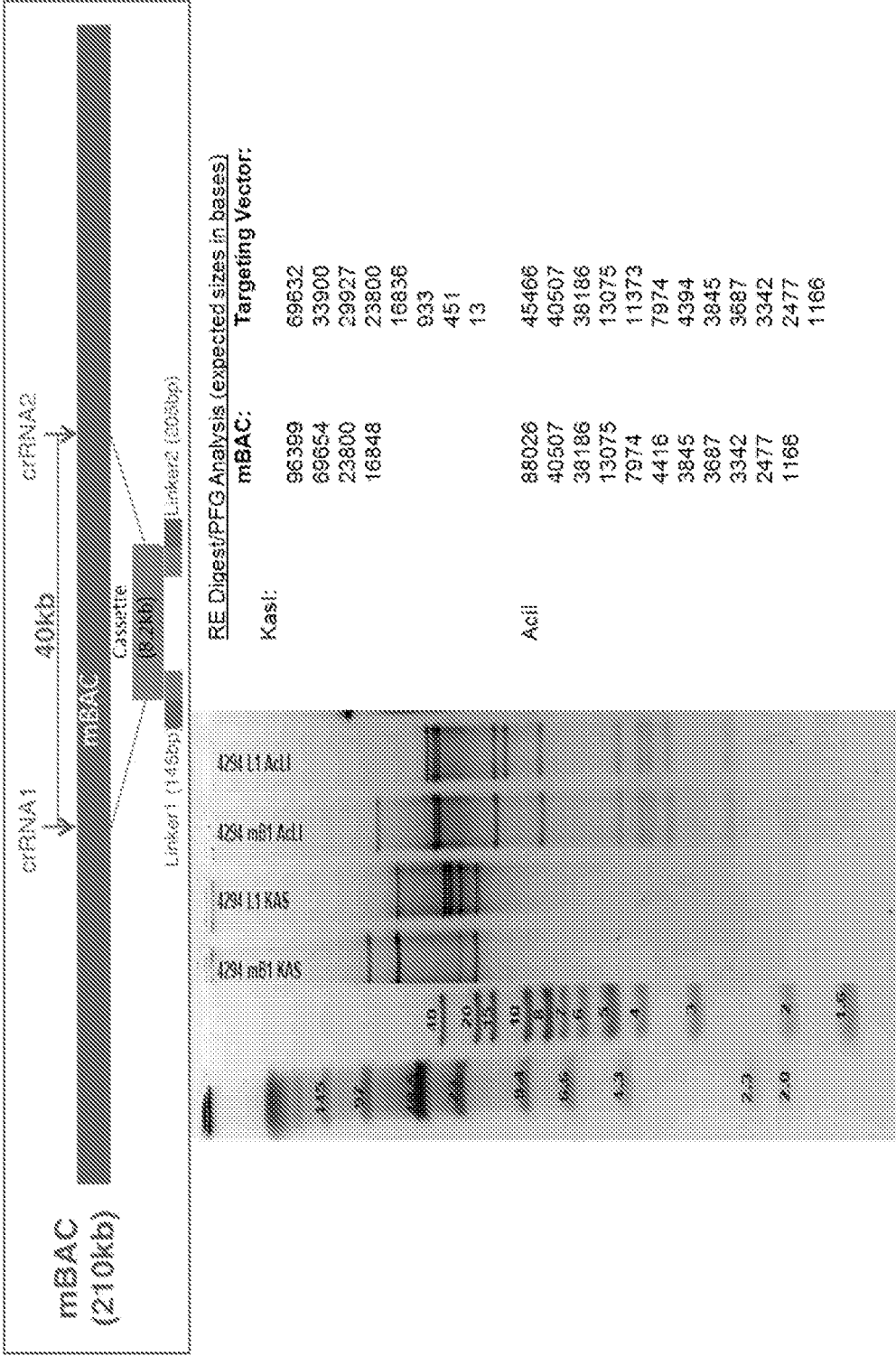


FIG. 8

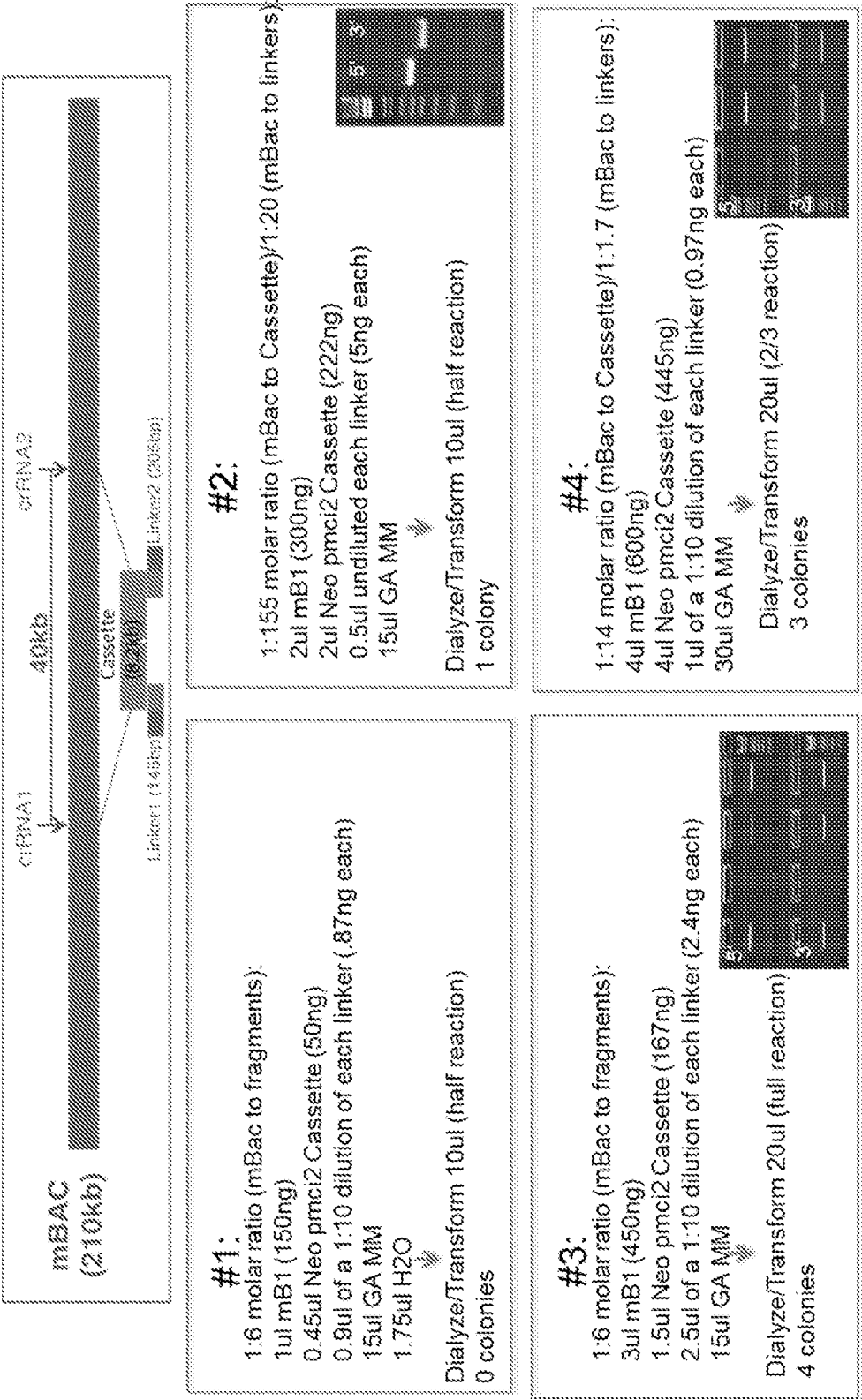
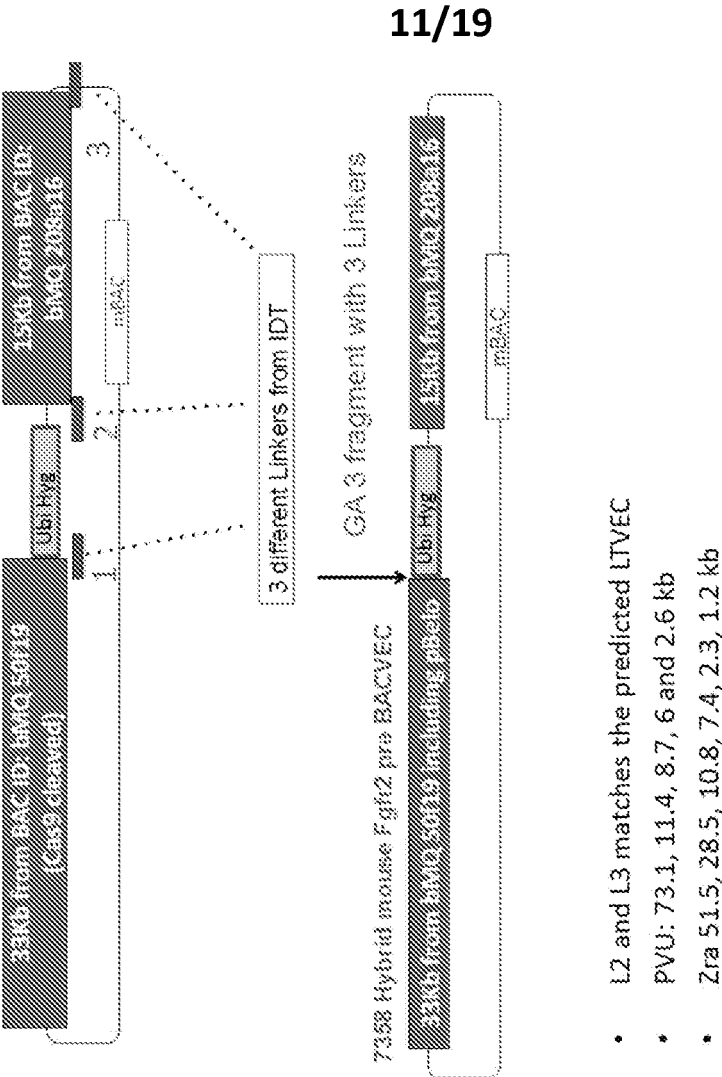


FIG. 9



PFG analysis of mFgfr2
preBACVEC

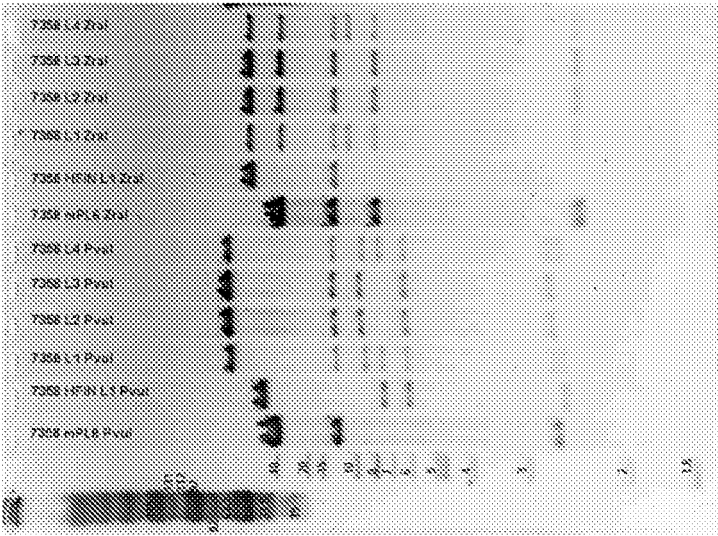


FIG. 11

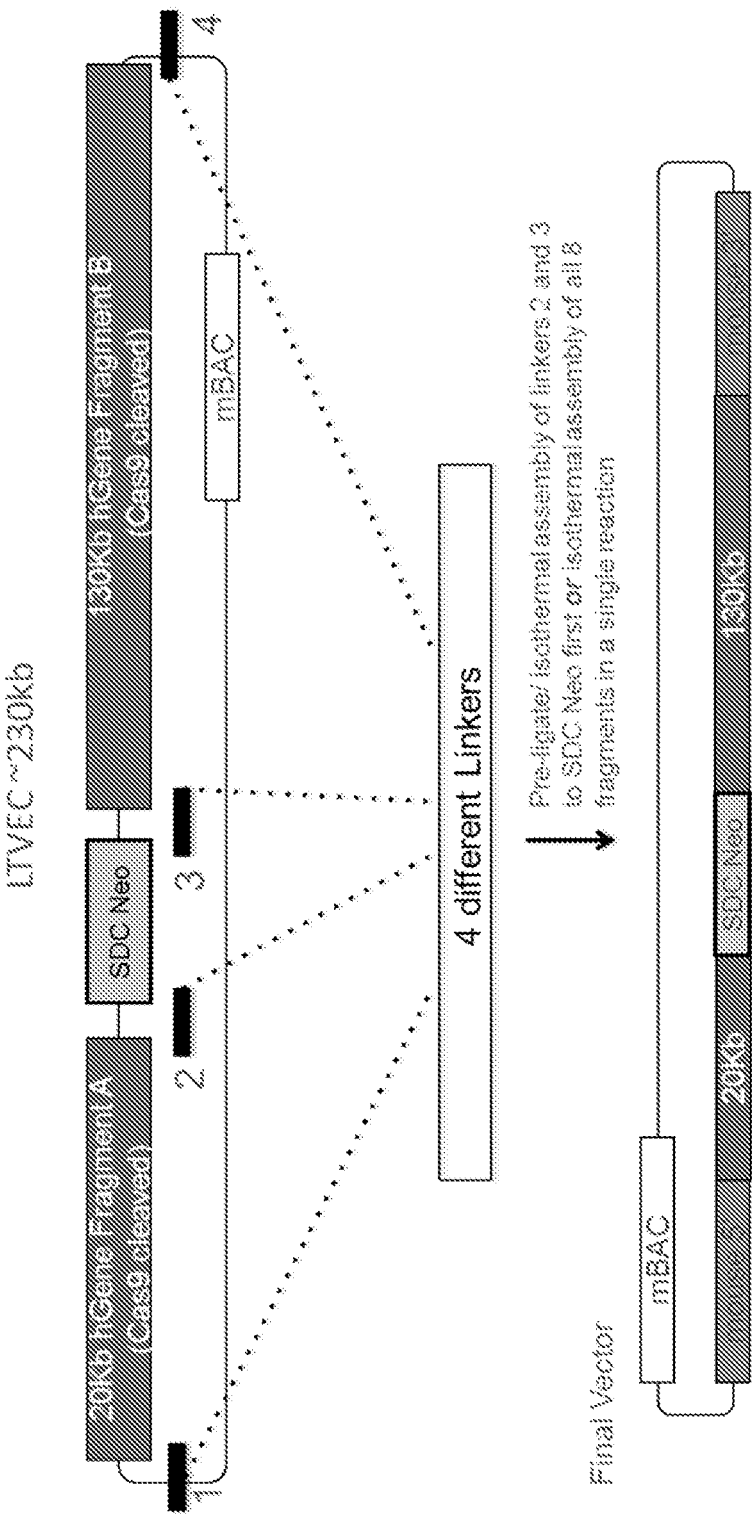


FIG. 13

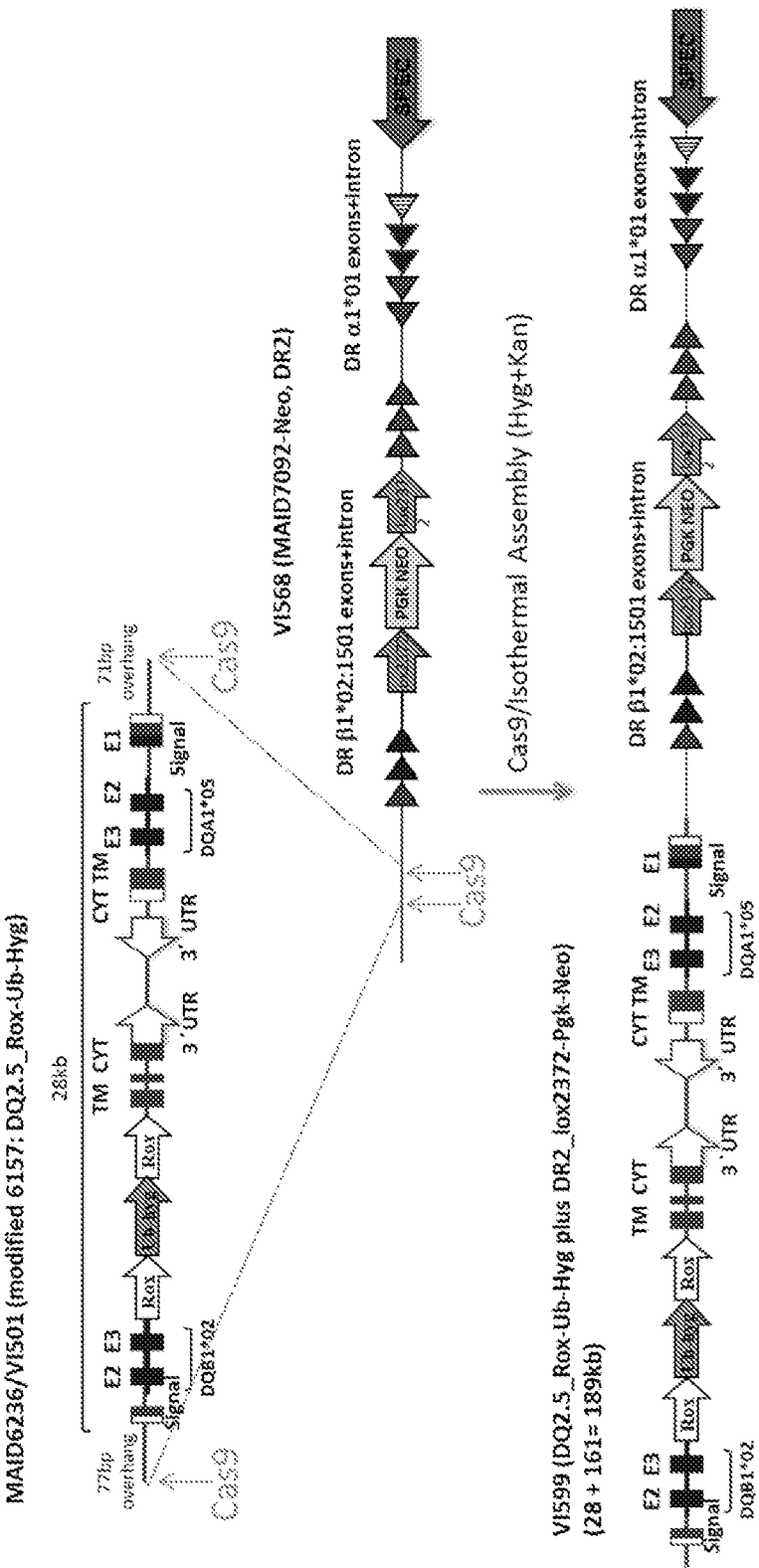


FIG. 14

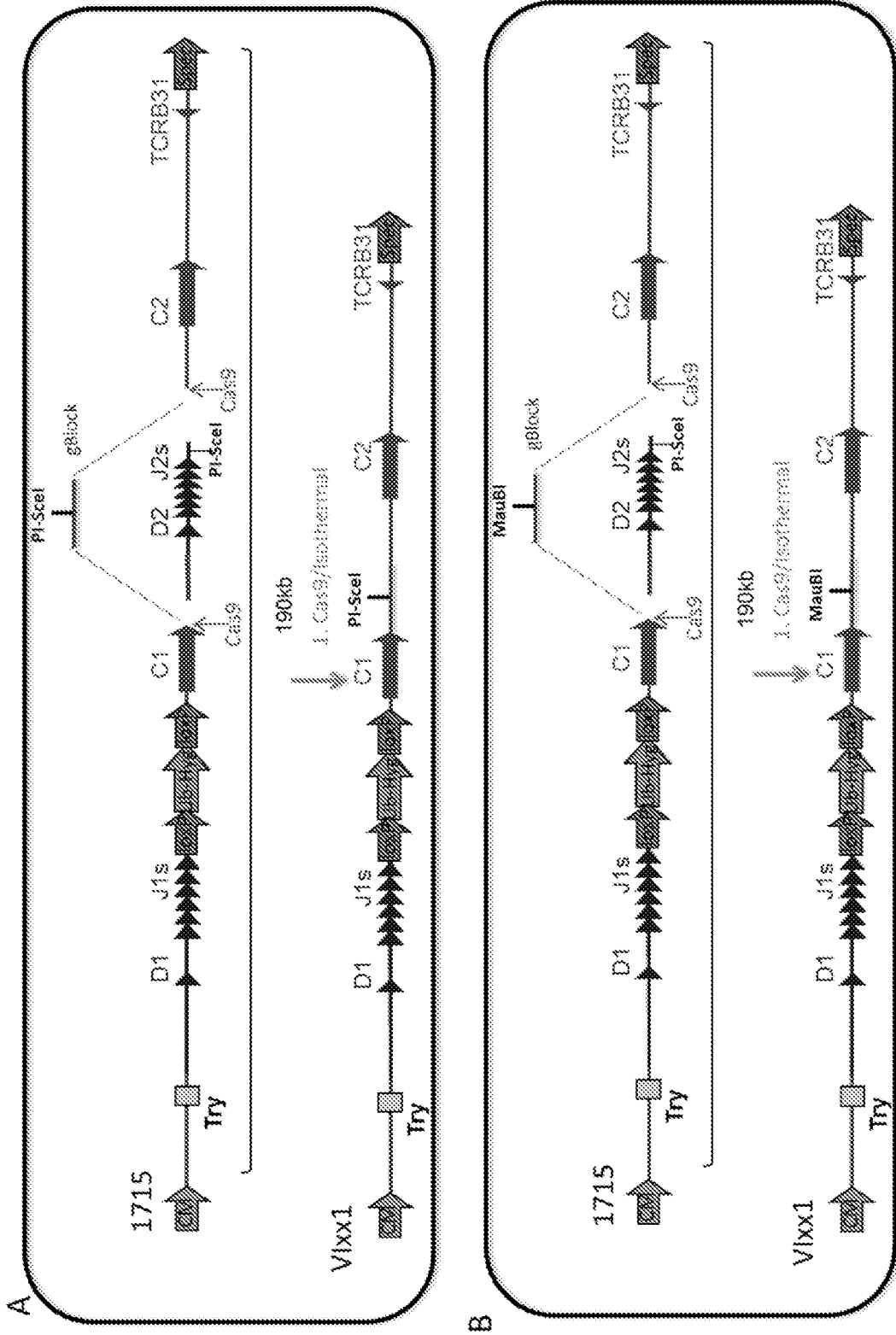


FIG. 15

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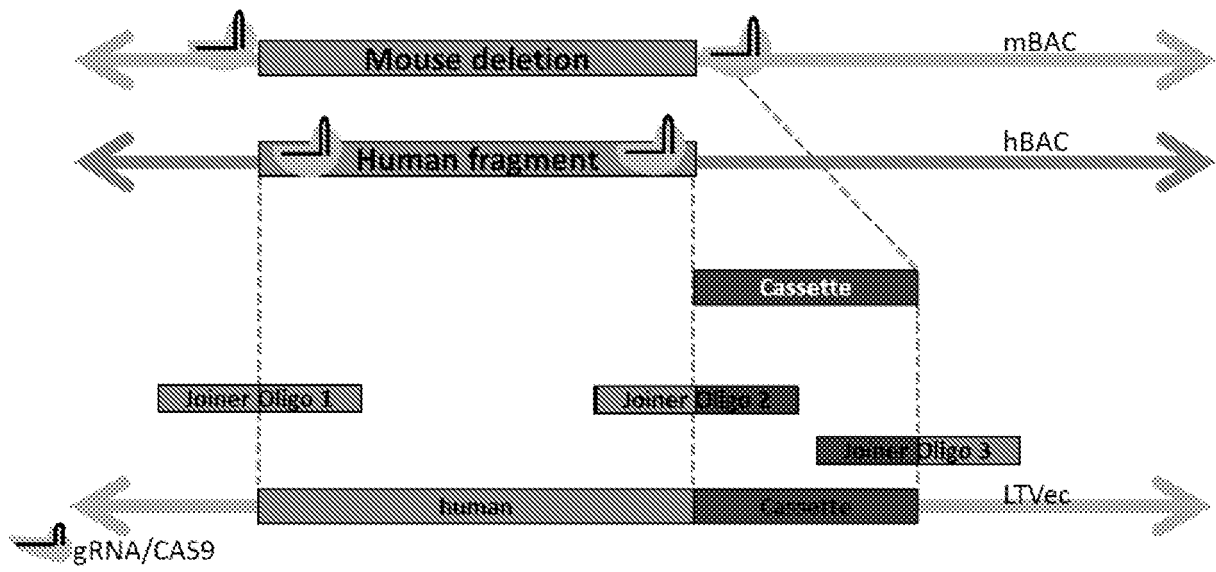


FIG. 16

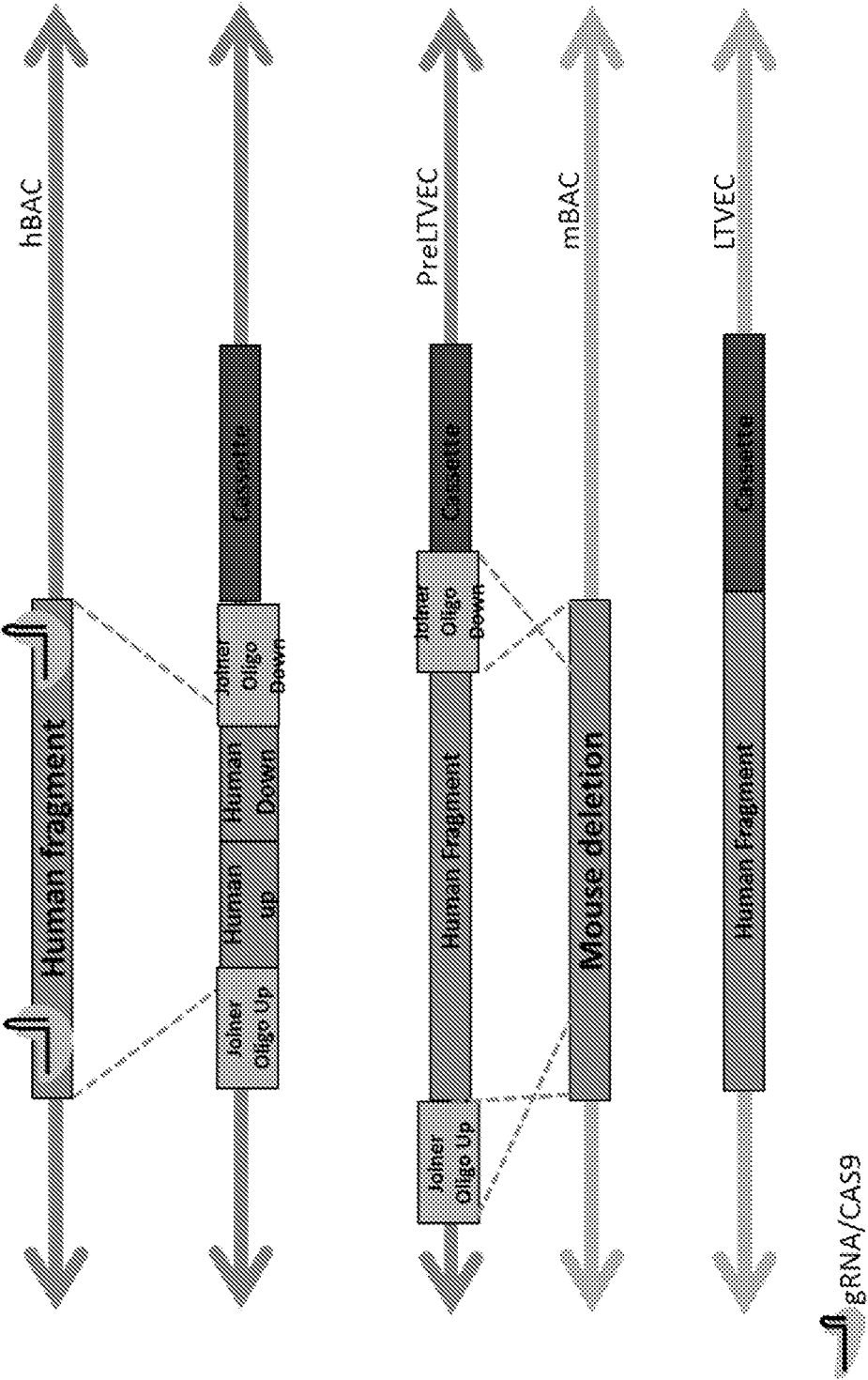


FIG. 17

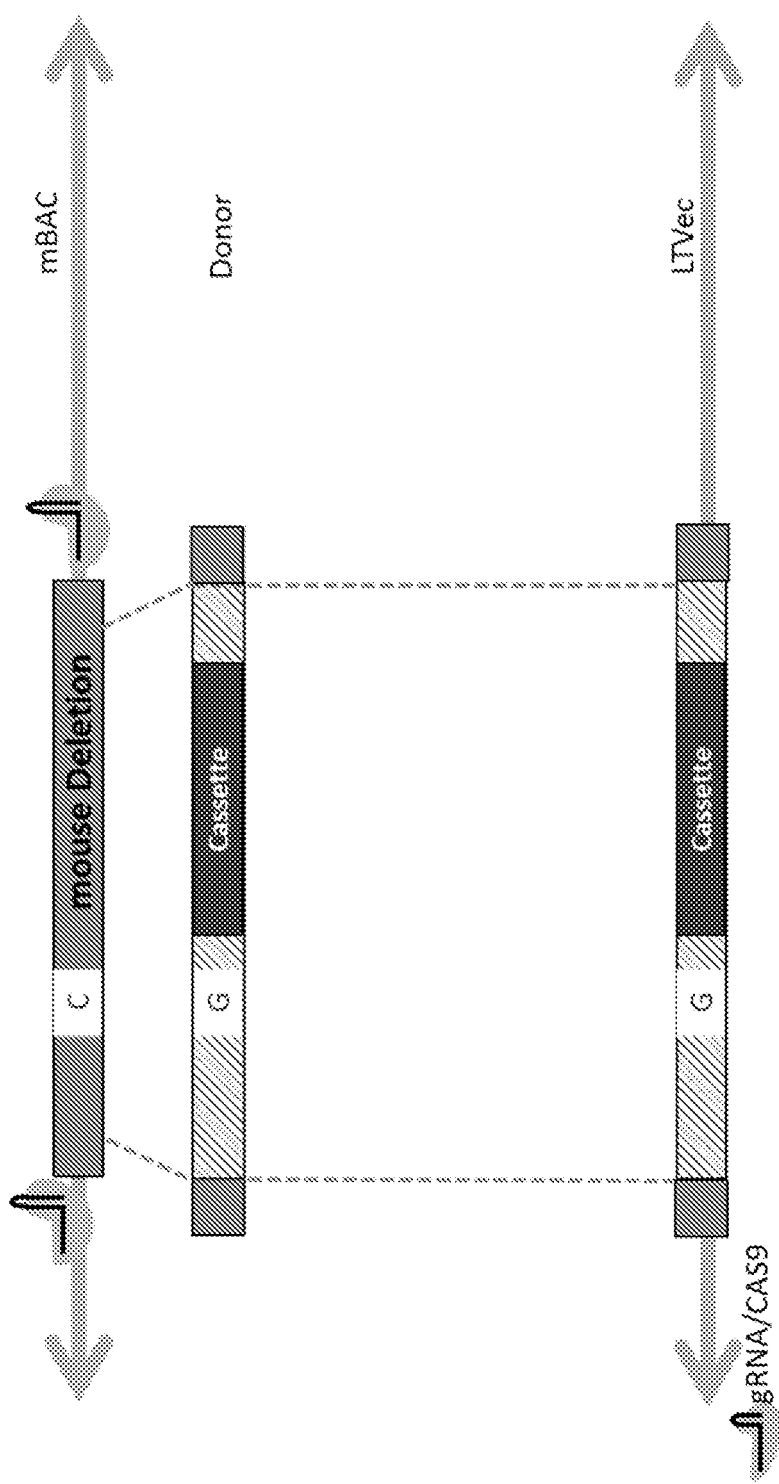


FIG. 18

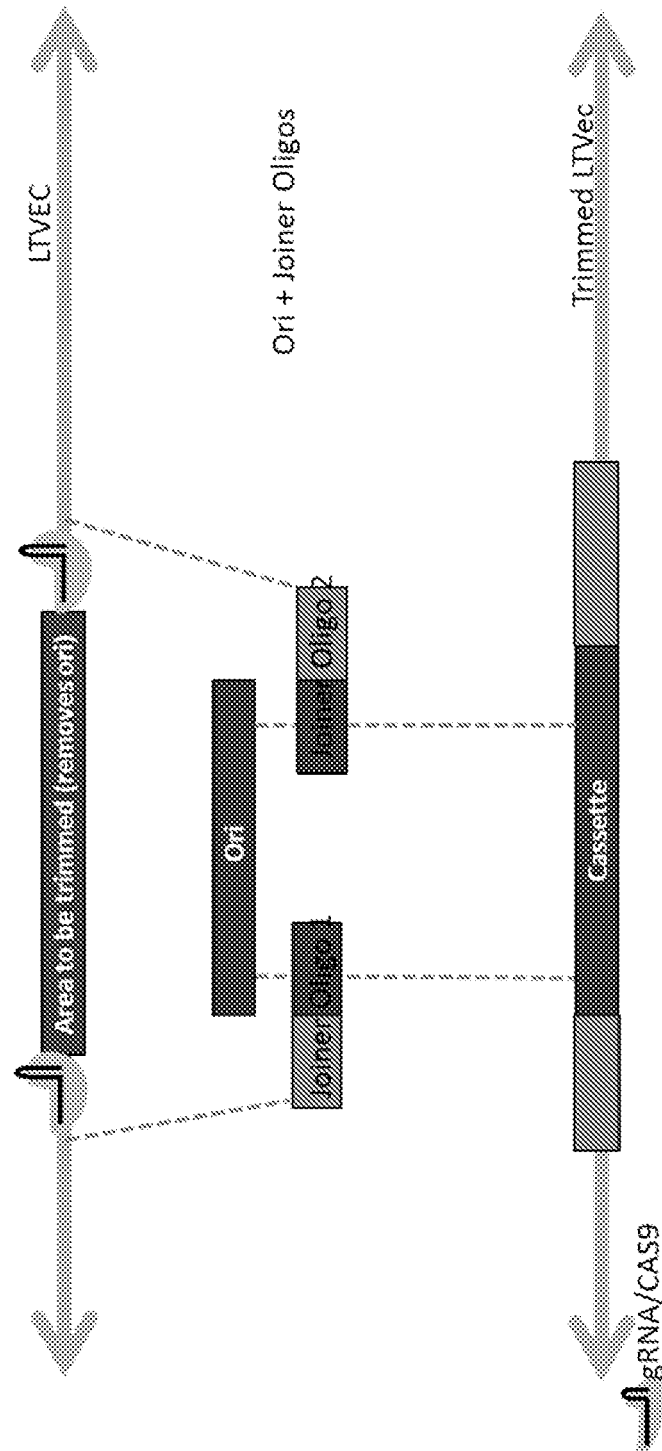


FIG. 19