

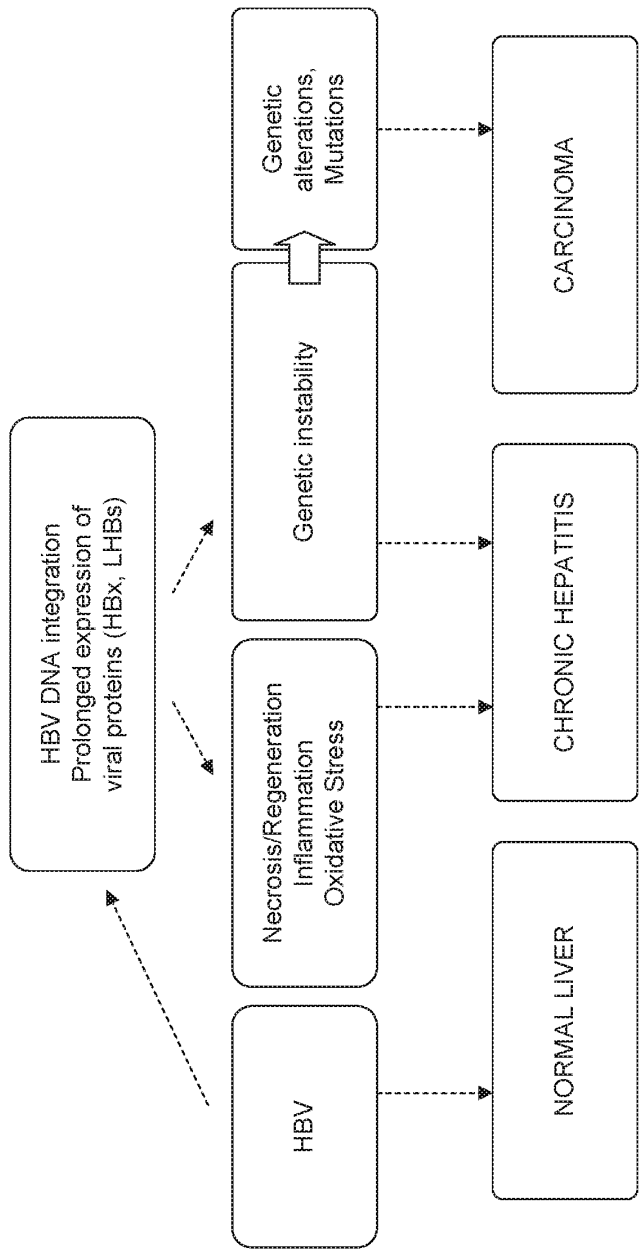


FIG. 1

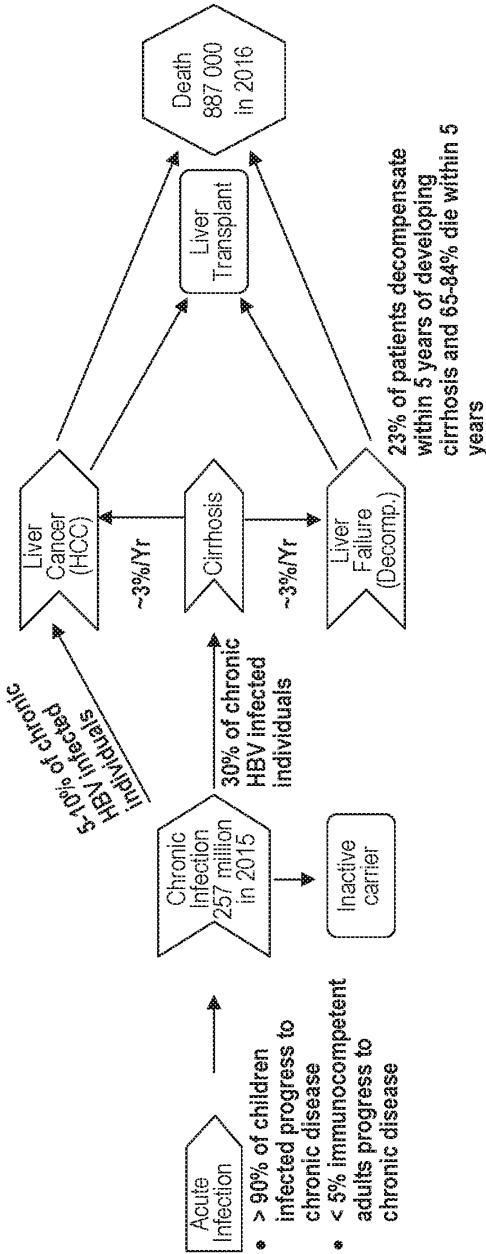


FIG. 2

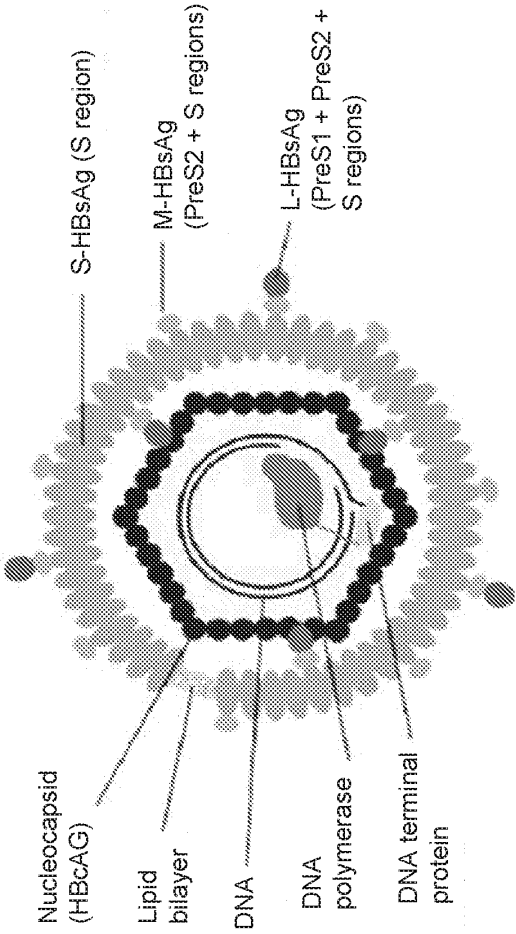
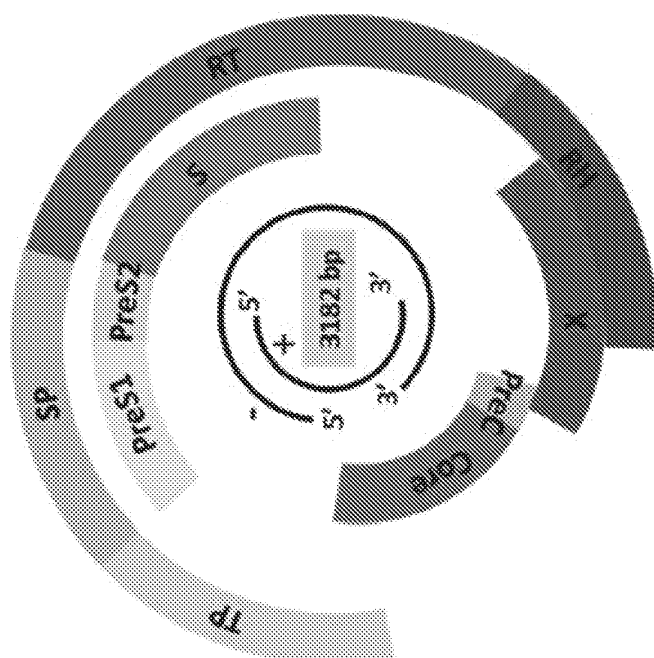


FIG. 3A



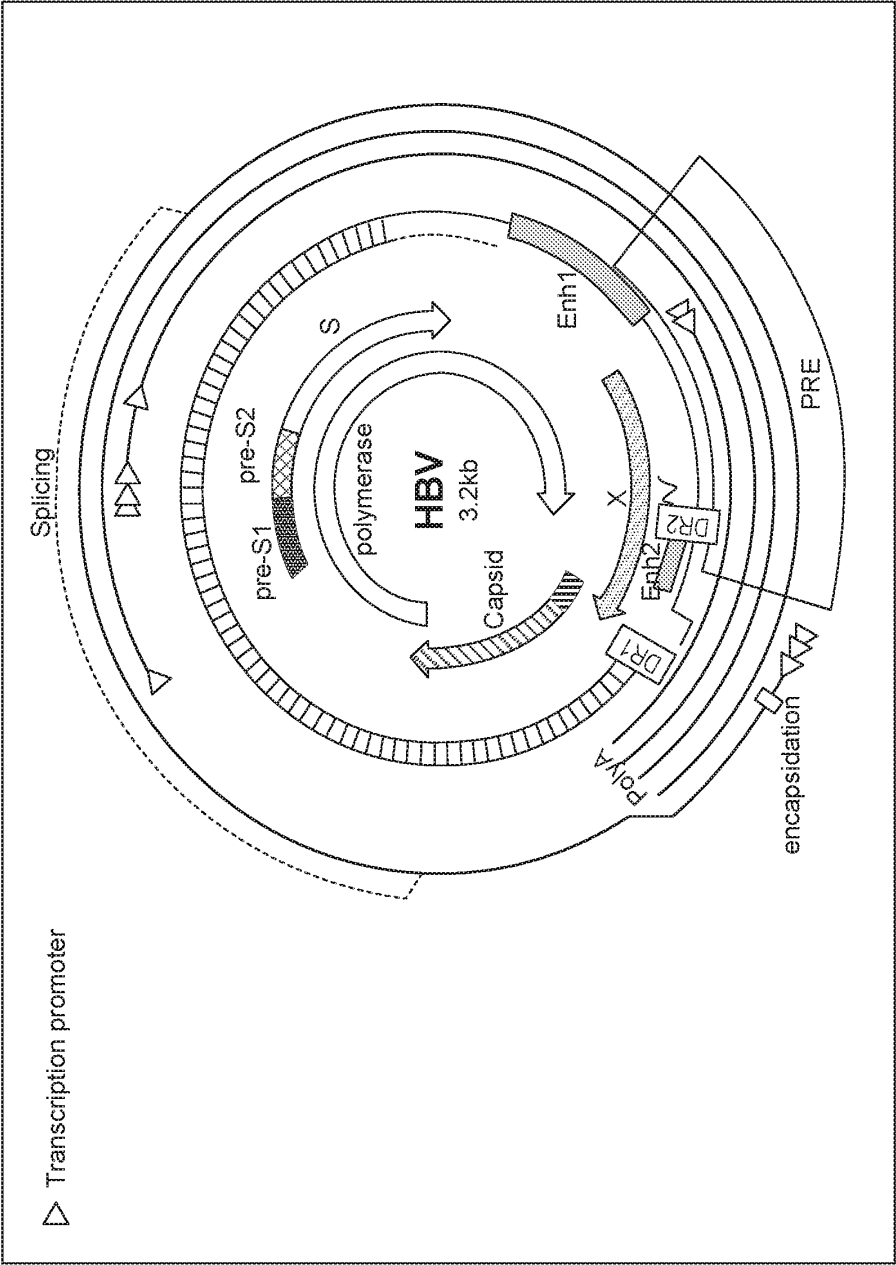


FIG. 3C

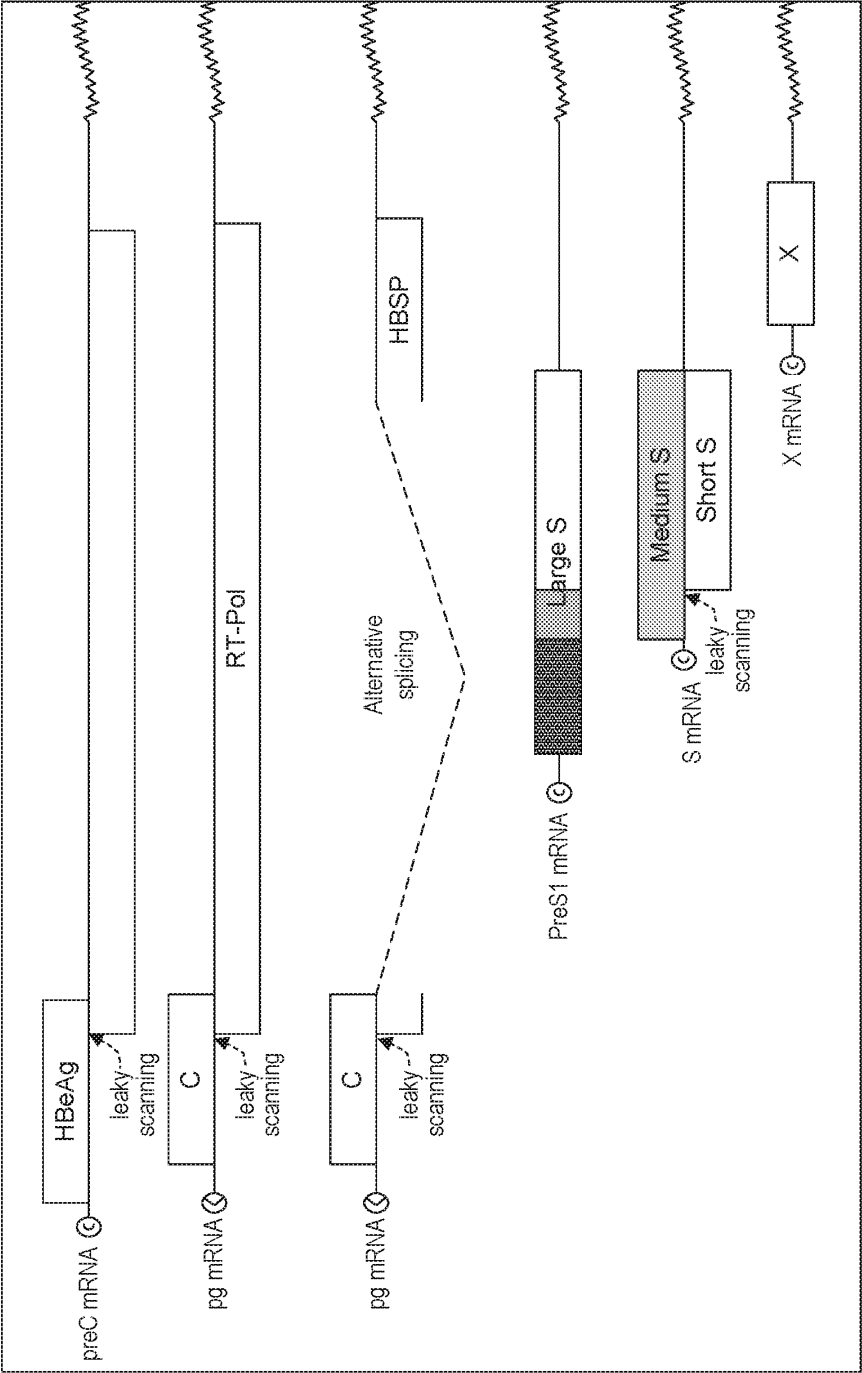


FIG. 3D

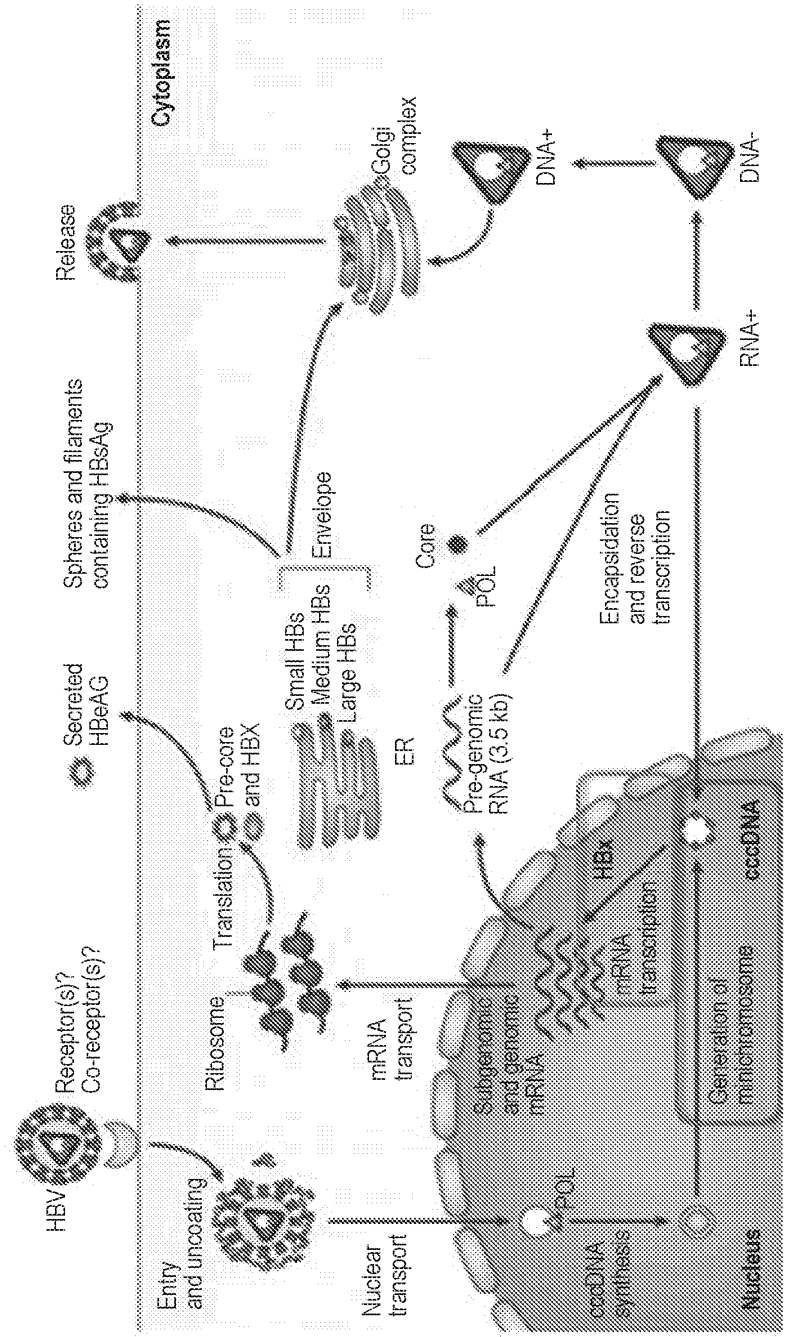


FIG. 4

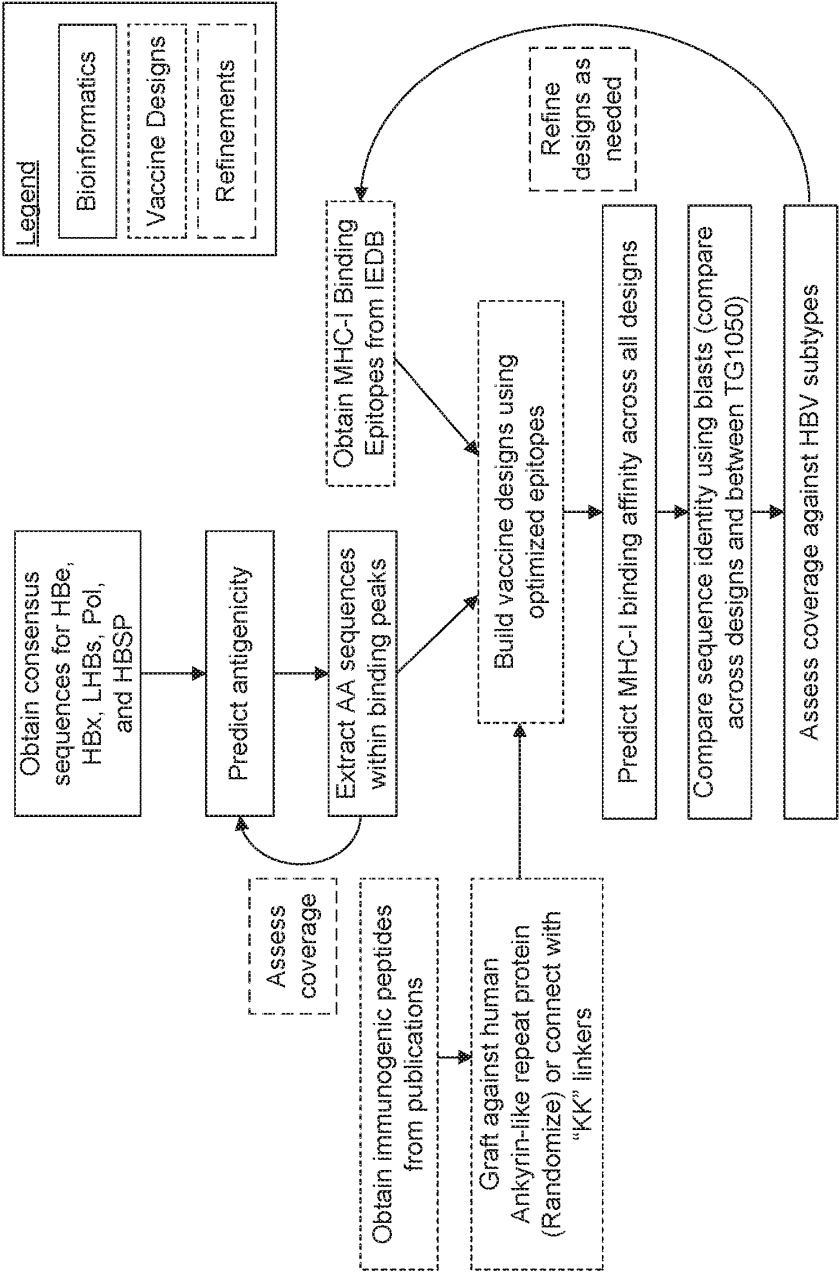


FIG. 5

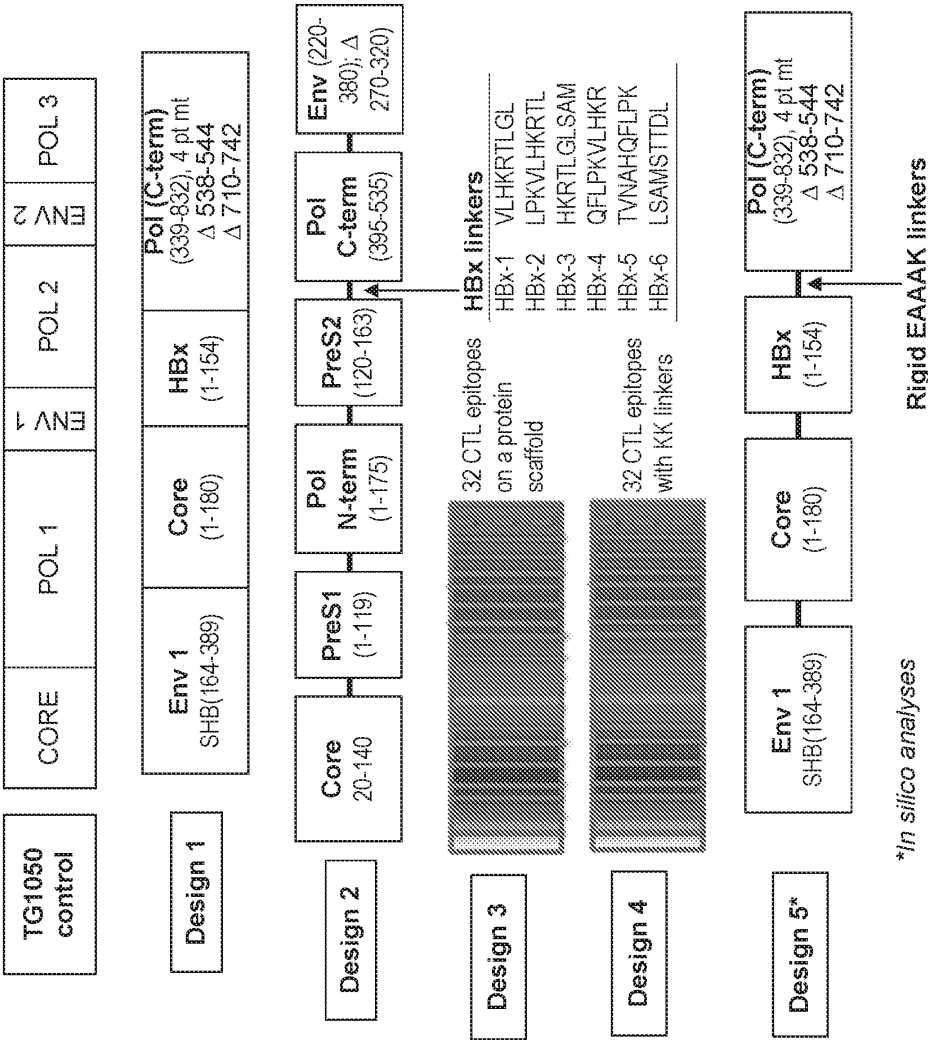


FIG. 6

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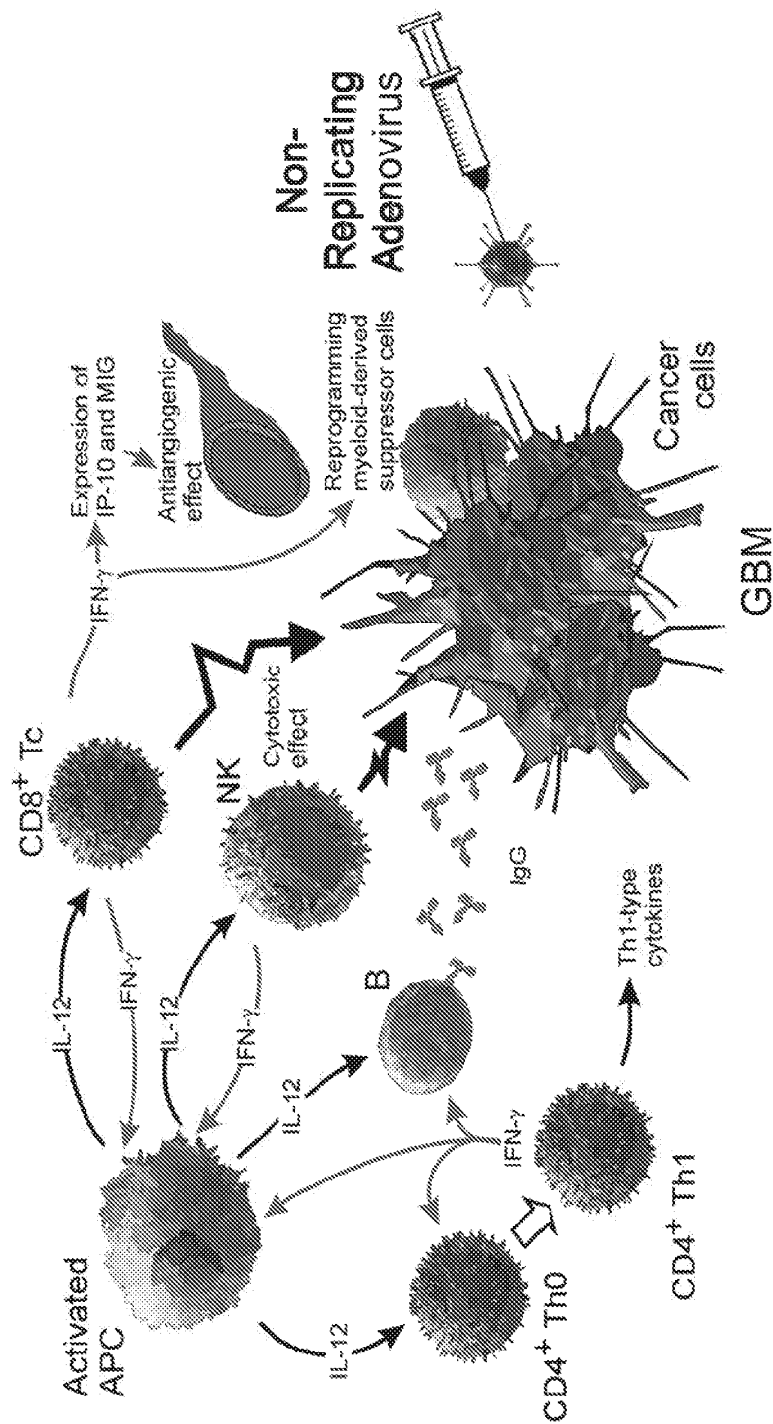


FIG. 7

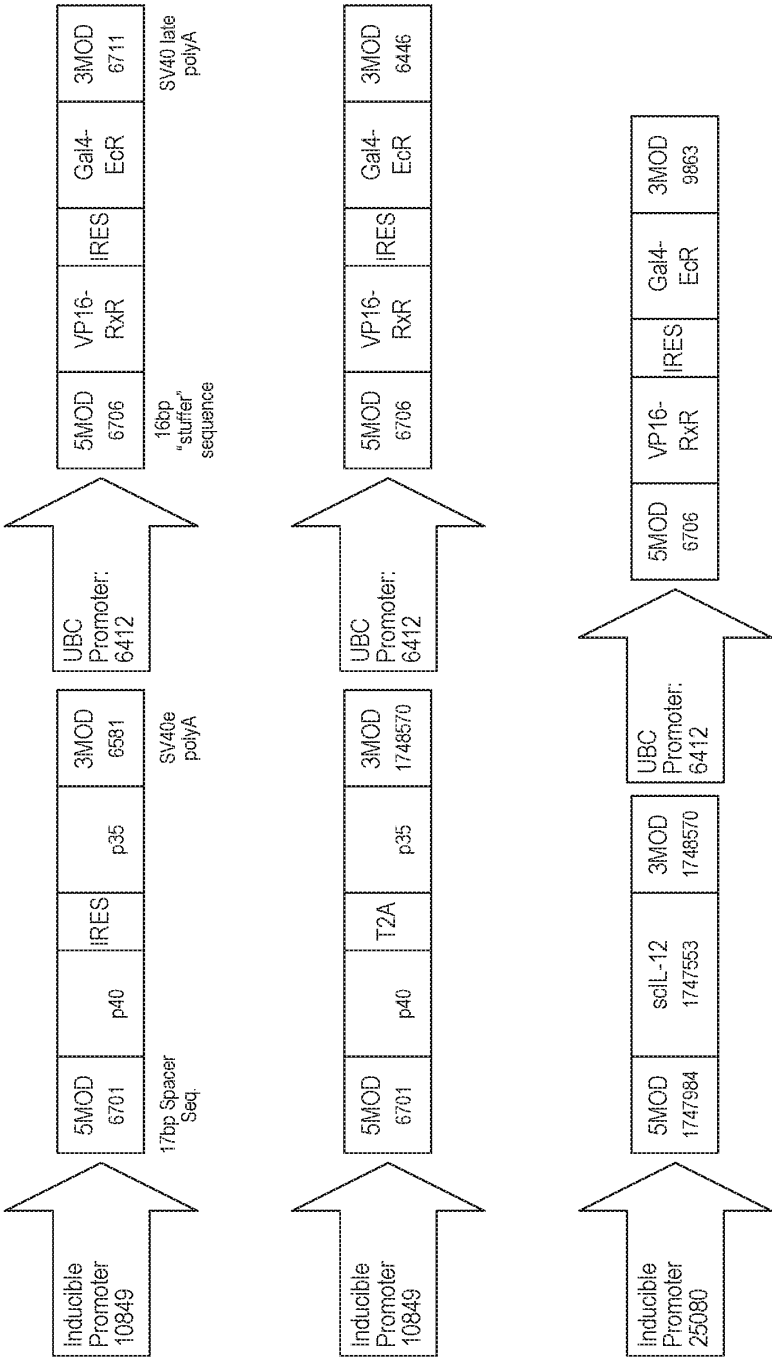


FIG. 8

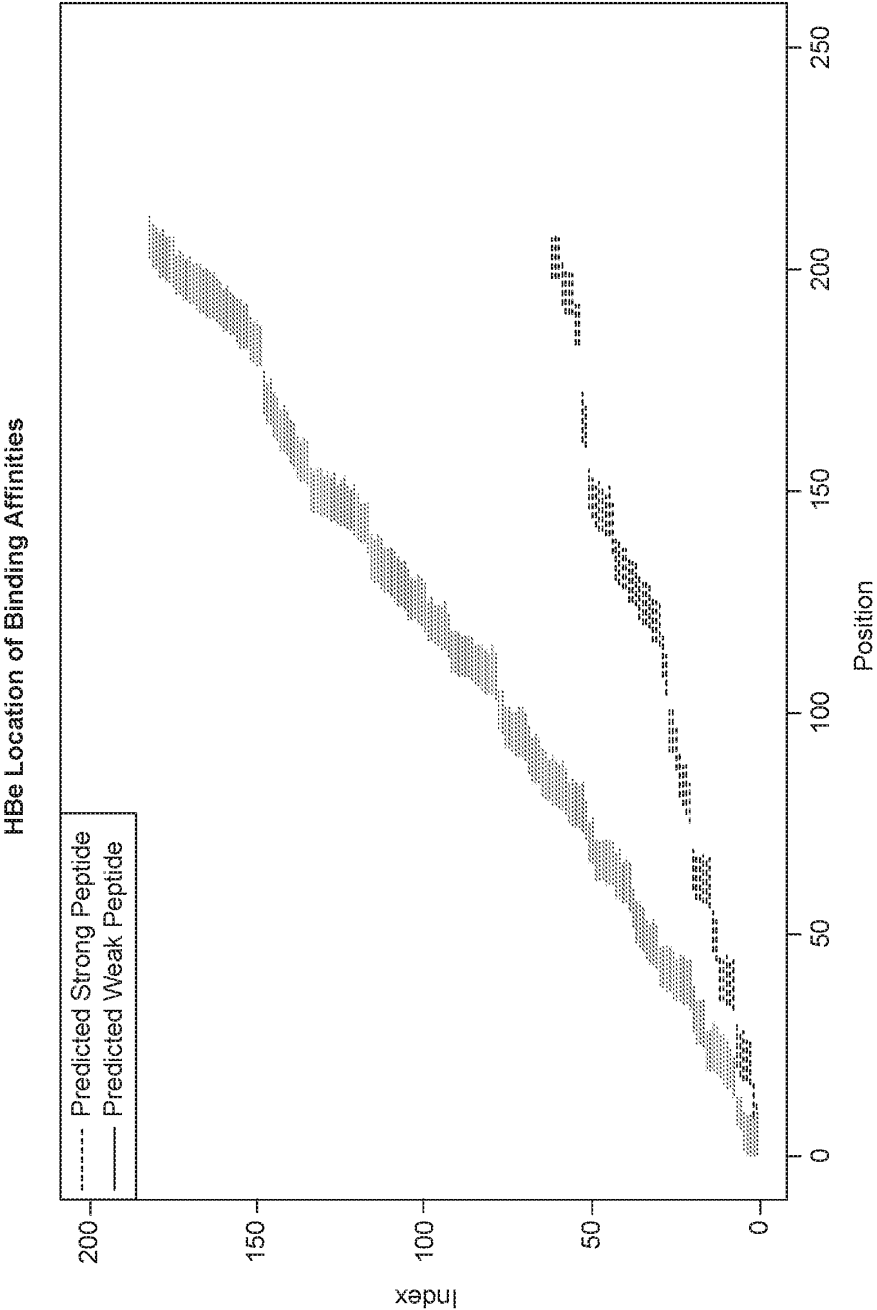


FIG. 9A

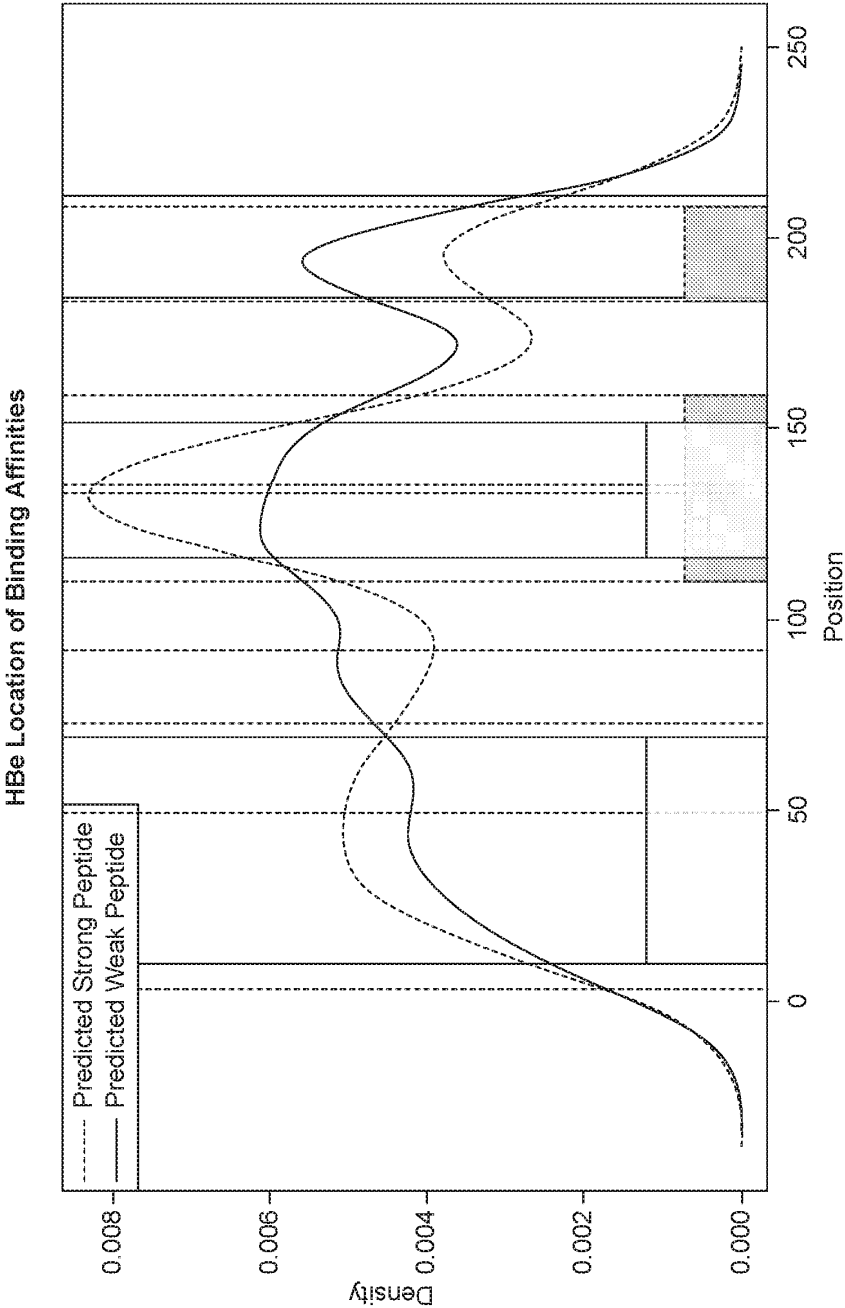
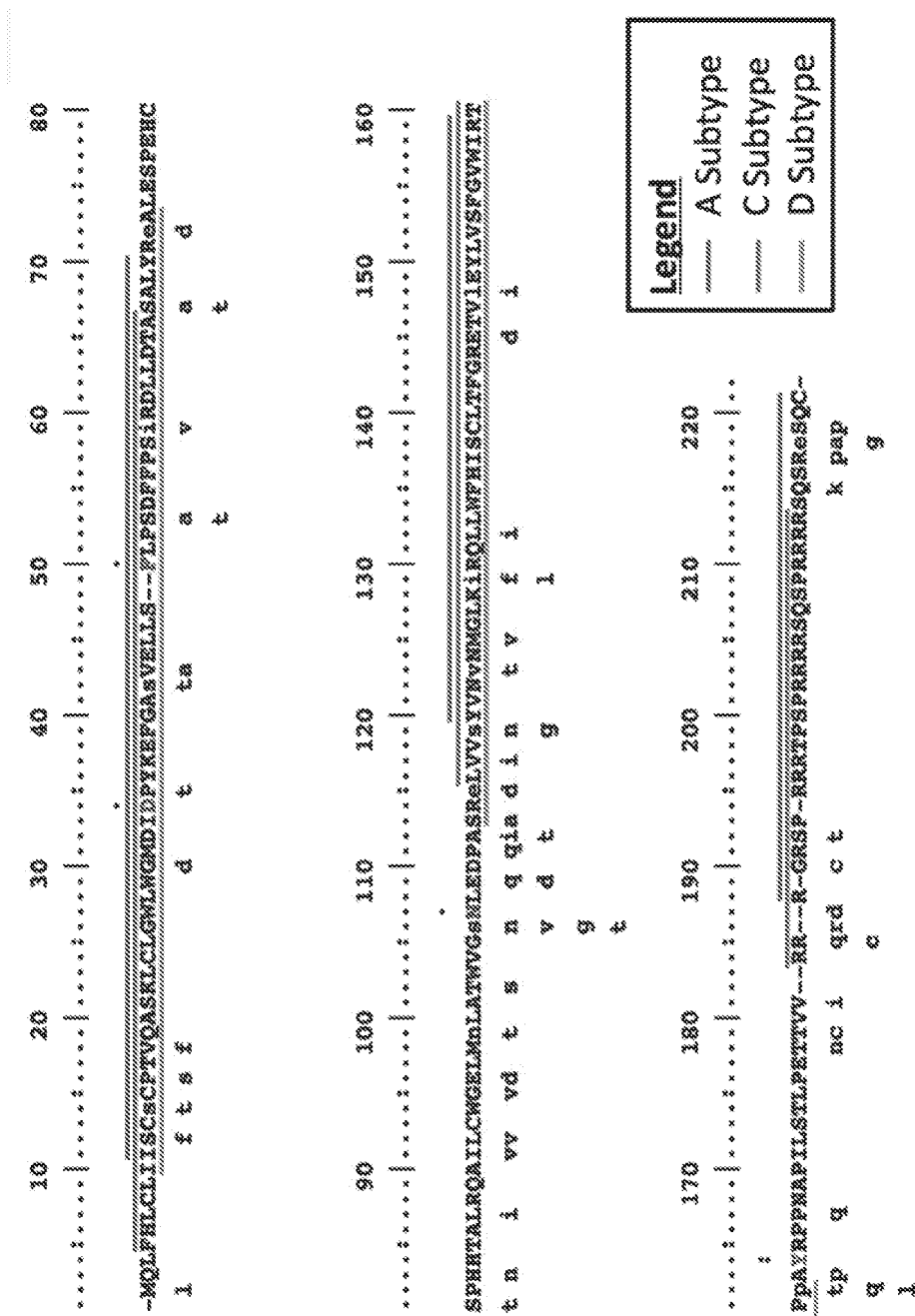


FIG. 9B



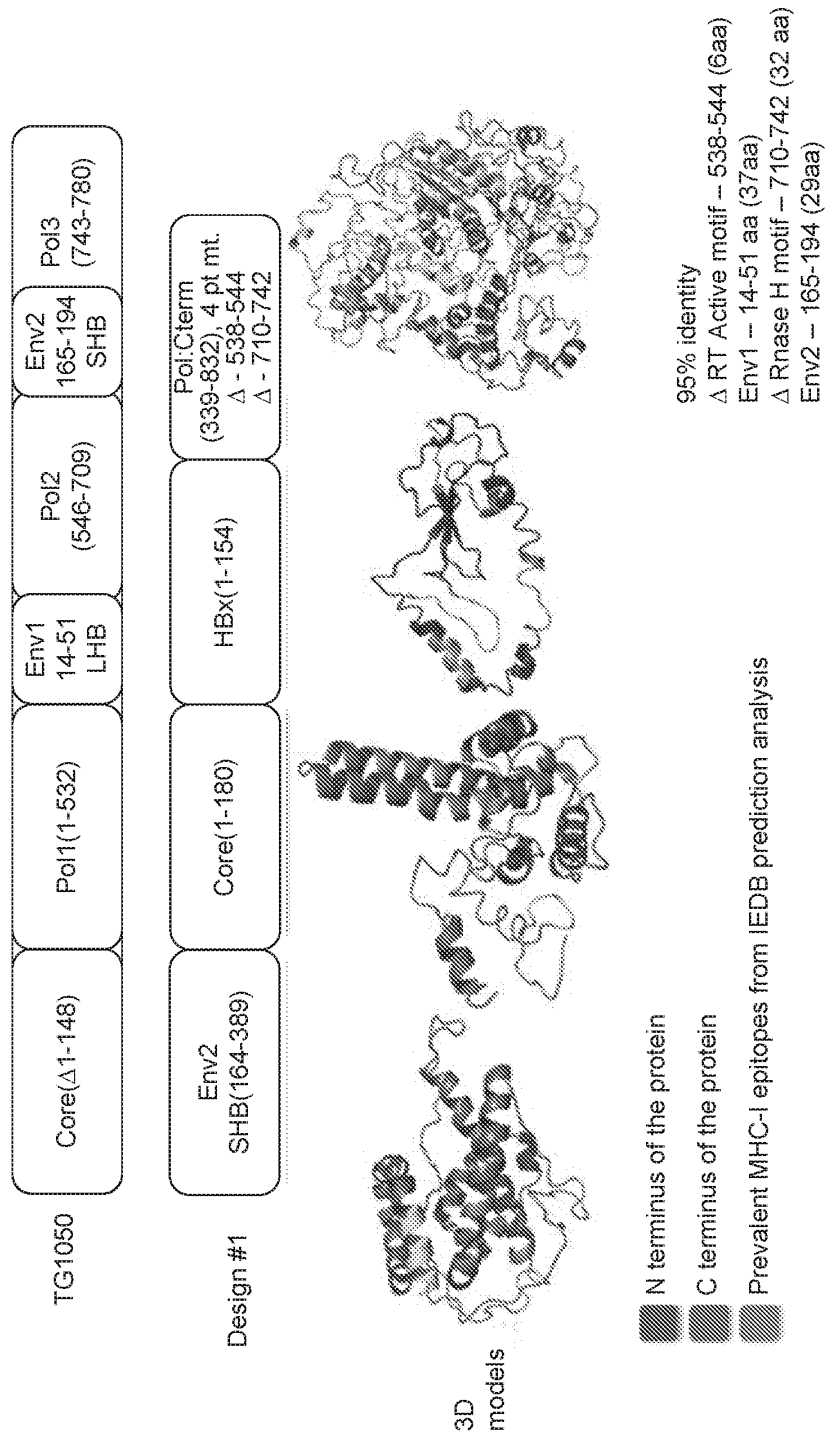


FIG. 10

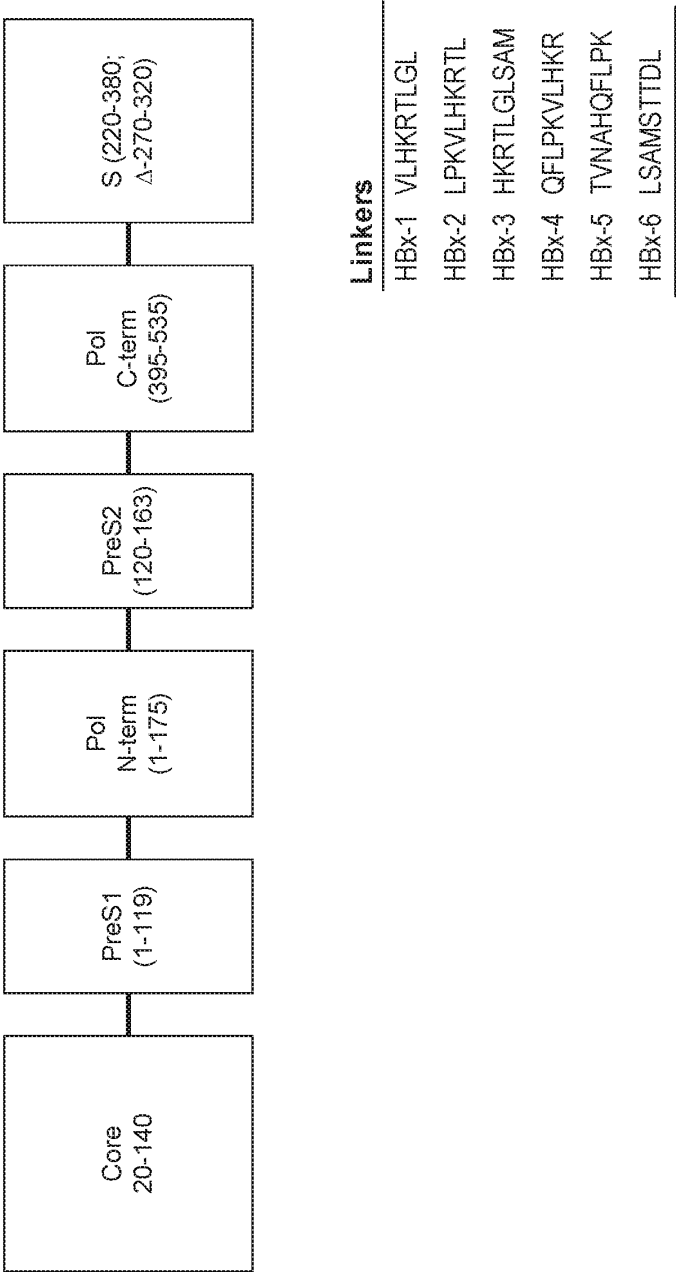


FIG. 11

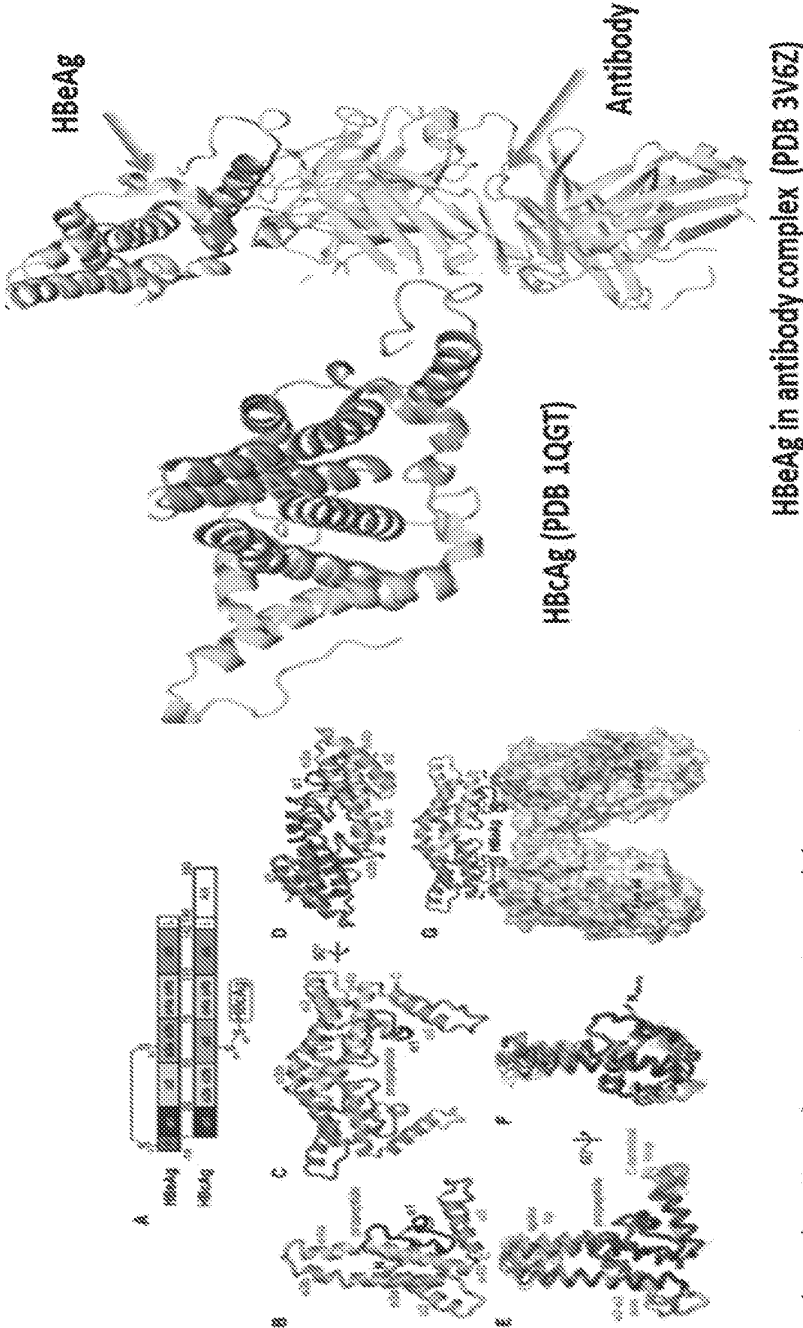


FIG. 12A

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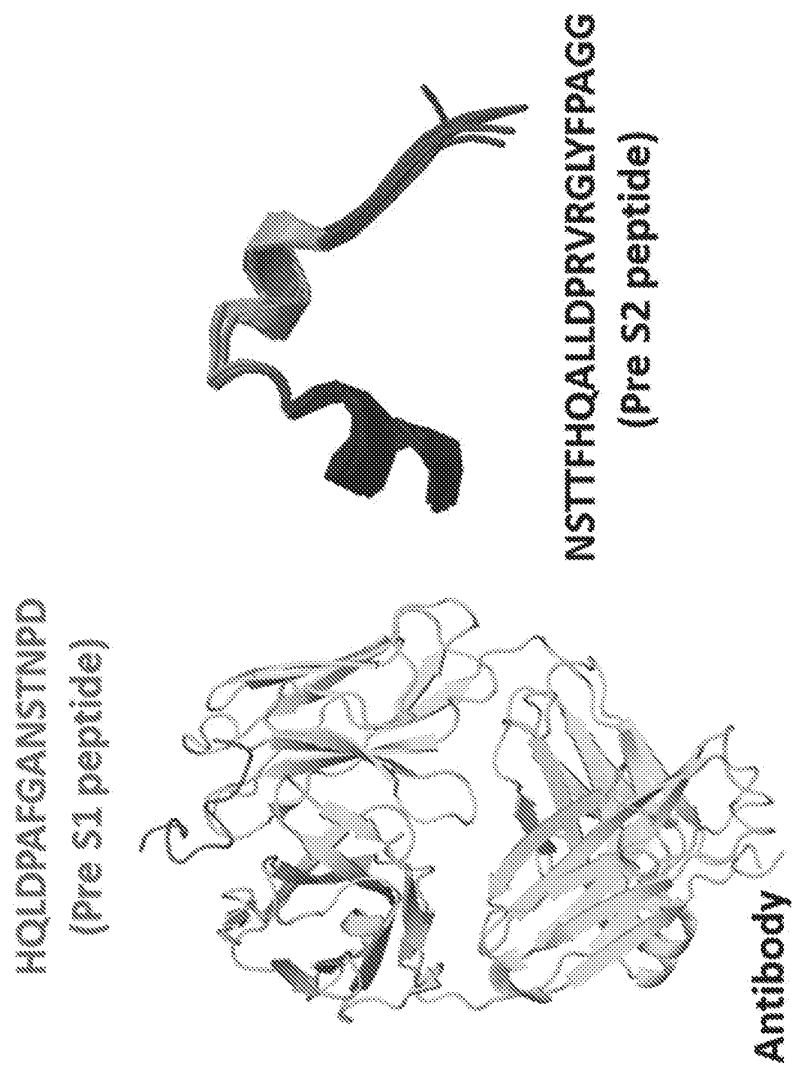


FIG. 12B

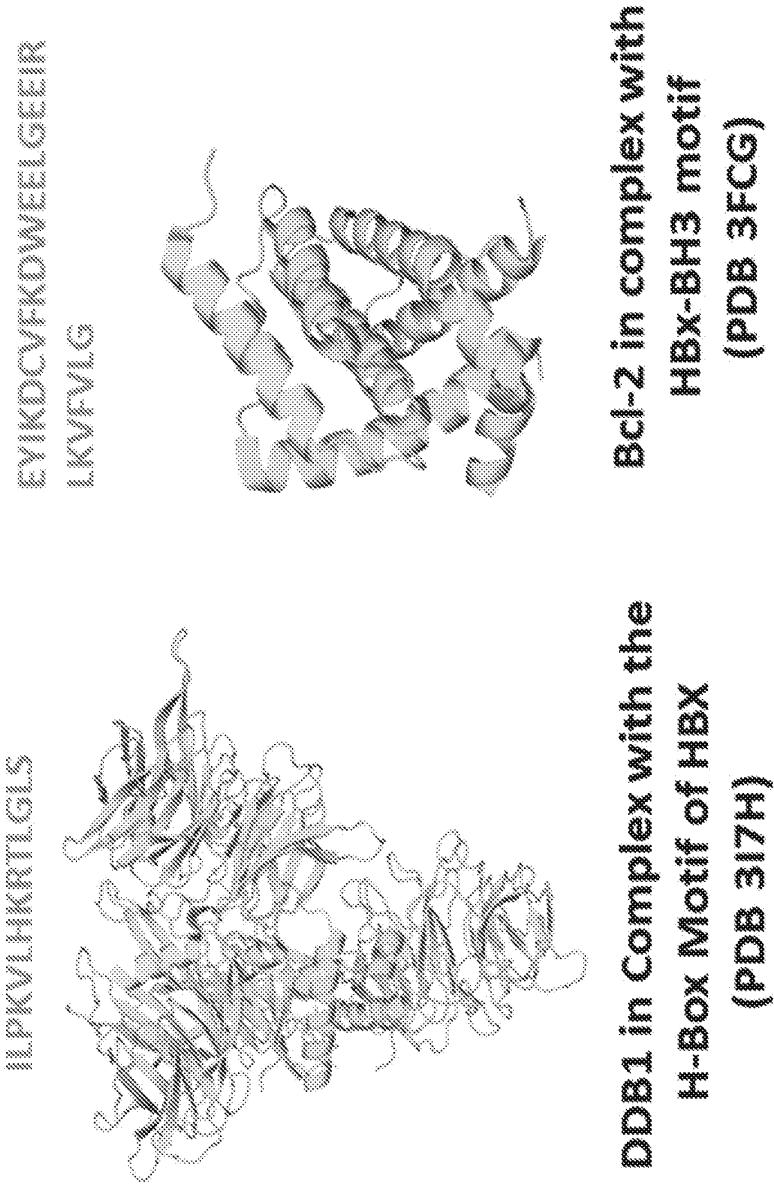


FIG. 12C

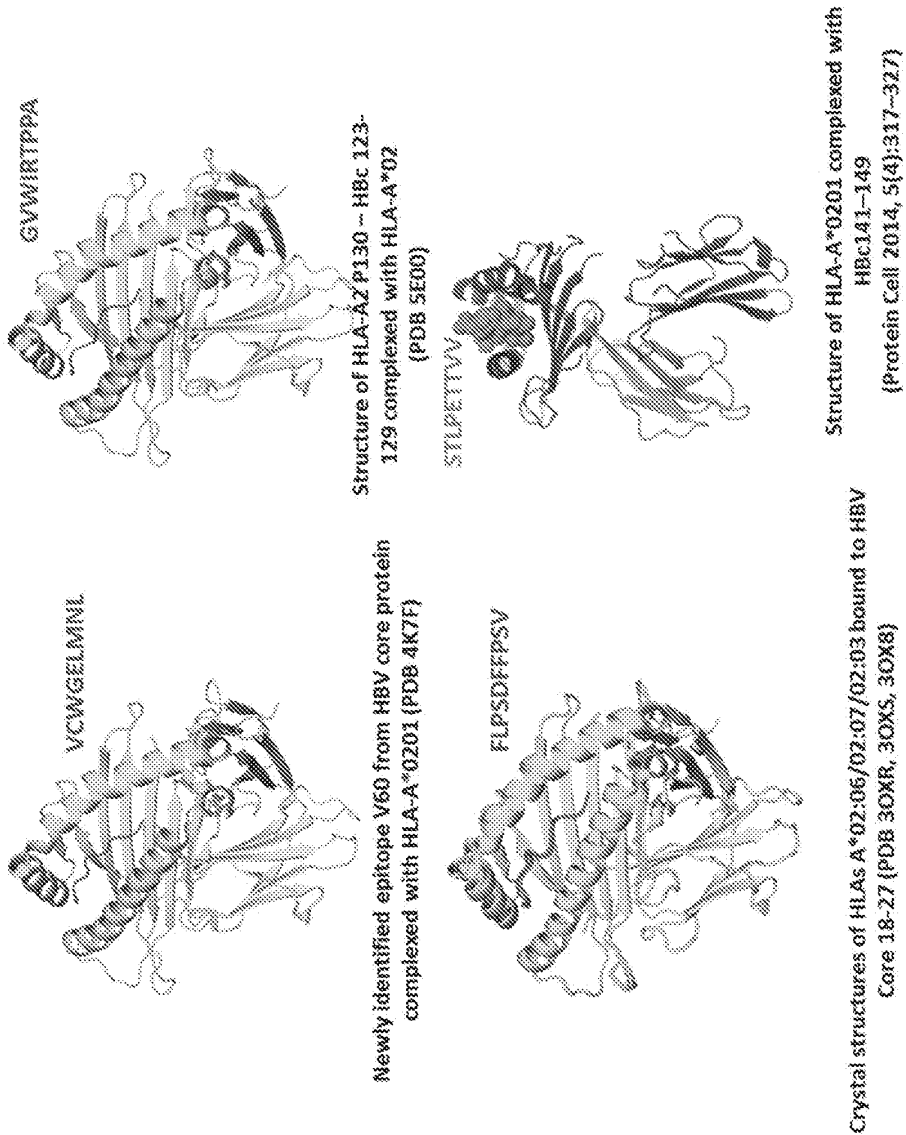


FIG. 12D

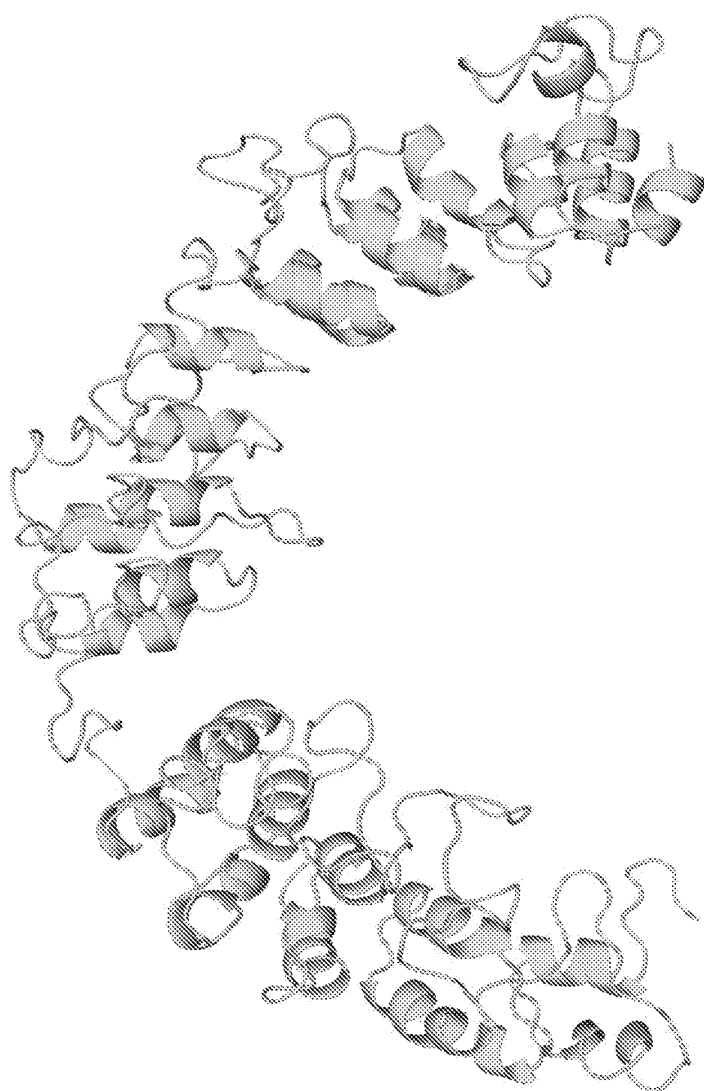


FIG. 13

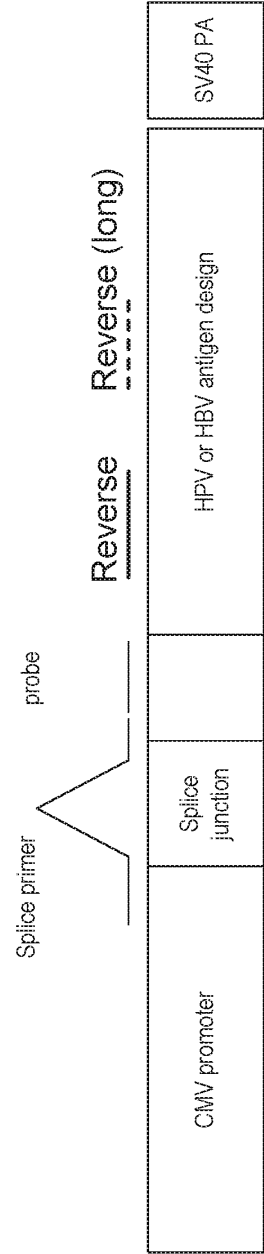
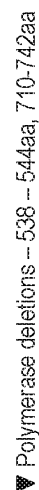


FIG. 14

MDIDPYKEFGA	SVLLSFLPSDFEPSVRDLLDTAT	ALYRDALESPEHC	PHHTALR	hvcyl
MDIDPYKEFGA	SVLLSFLPSDFEPSVRDLLDTAT	ALYRDALESPEHC	PHHTALR	qqail
MDIDPYKEFGA	SVLLSFLPSDFEPSVRDLLDTAT	ALYRDALESPEHC	PHHTALR	qqail
CWGLMNLATW	VG ¹ NLEDD	qasRDLVSVYNTNMGLKFRQLLMF	HSICITFG	DLVIEYL
CWGLMNLATW	VG ¹ NLEDD	piSRDLVSVYNTNMGLKFRQLLMF	HSICITFG	RETVEYL
CWGLMNLATW	VG ¹ NLEDD	piSRDLVSVYNTNMGLKFRQLLMF	HSICITFG	RETVEYL
SFGVMIRTPPAYRPS	NAPILSLTPETTV	mpIsvqhf	rxrlIILd	deagpleeeIprladeg
SFGVMIRTPPAYRPS	NAPILSLTPETTV	-----	-----	-----
lnrrvaednl	nglnvsiptwtkvgnftglystvpvfnphwkt	psfpnahl	hqdiIkkc	-----
lnrrvaednl	nglnvsiptwtkvgnftglystvpvfnphwkt	psfpnahl	hqdiIkkc	-----
eqfvglptv	nekrriqlimparfpnvtkyIpldkgikpyp	ehlvmhvfqtr	hlyhtlw	-----
eqfvglptv	nekrriqlimparfpnvtkyIpldkgikpyp	ehlvmhvfqtr	hlyhtlw	-----
eqfvglptv	nekrriqlimparfpnvtkyIpldkgikpyp	ehlvmhvfqtr	hlyhtlw	-----
kgailykret	thsaafcgspyswecklqhgaesfhqssgil	srppvgsal	qskhrksrl	-----
kgailykret	thsaafcgspyswecklqhgaesfhqssgil	srppvgsal	qskhrksrl	-----
kgailykret	thsaafcgspyswecklqhgaesfhqssgil	srppvgsal	qskhrksrl	-----



(MOD-1755596) HBV D SHE (Env) HBe HBV DB elements AB048701	←-----MENITSGFLGFLVLQAGFFLLTRILITIPQSLDSWWTSLSLGGTTVCLGQNSQSPTSNH MENITSGFLGFLVLQAGFFLLTRILITIPQSLDSWWTSLSLGGTTVCLGQNSQSPTSNH SPFSCPPPTCGYRWMLRRFIIFLFIILLCLIFLVLVLDYQWMLPVCPLIPGSSTTSTGP SPFSCPPPTCGYRWMLRRFIIFLFIILLCLIFLVLVLDYQWMLPVCPLIPGSSTTSTGP CRCTTPAQCTSMYPCCTKPSDGNCTCIPIPSSWAFGKFLWESARFWSLVLVPEV CRCTTPAQCTSMYPCCTKPSDGNCTCIPIPSSWAFGKFLWESARFWSLVLVPEV QWFGLSPTVWLSVWMMWYWGPSLYNTLSPEFLPIPIFFYIMVYIMQFLHCLIIISCS QWFGLSPTVWLSVWMMWYWGPSLYNTLSPEFLPIPIFFYIMVYIMQFLHCLIIISCS PTVQASKLCIGLWMDMDIDPYKEFGASVELLSFIPSDFFPSVRDILLDTATAYRDALESE PTVQASKLCIGLWMDMDIDPYKEFGASVELLSFIPSDFFPSVRDILLDTATAYRDALESE EHCTPHHTALRHVCLCWGDLMLNLTATWGTNLEDOASRDVSVYVNTNMGLKFRQLLWFI EHCTPHHTALRHVCLCWGDLMLNLTATWGTNLEDOASRDVSVYVNTNMGLKFRQLLWFI SCLTFGRDLVLEYLVSFGVWIKTPPAYRPSNAPILSTLPETTVVRQMAARLCCOLDPARD SCLTFGRDLVLEYLVSFGVWIKTPPAYRPSNAPILSTLPETTVVRQMAARLCCOLDPARD VLCIRPVGAESRGRPSGPGALSSSSPEAVETDGHGHLSLRGLPVCAFSSAGFCALRET VLCIRPVGAESRGRPSGPGALSSSSPEAVETDGHGHLSLRGLPVCAFSSAGFCALRET SARMETTVNAHQFLPKVLHKKRTGLSAMSTTDLKAYFKDCFLKDWELGEELRLKVFVL SARMETTVNAHQFLPKVLHKKRTGLSAMSTTDLKAYFKDCFLKDWELGEELRLKVFVL GGGRHKLVCAPAPCNETTSAGCAEHGEHRIIRTPPARVTGGVFLVDKNPHNTAESRLV GGGRHKLVCAPAPCNETTSAGCAEHGEHRIIRTPPARVTGGVFLVDKNPHNTAESRLV VDFSQFSRGNRYRVSWEKFAVPMQLQSLTNLLSSNLCWLSLDVSAAFYHLPHPAAMPHLV VDFSQFSRGNRYRVSWEKFAVPMQLQSLTNLLSSNLCWLSLDVSAAFYHLPHPAAMPHLV GSSGLSRVYVARLSSNSRIINHQTGLQNLHLDSCSRNLYVSLIILLYKTFGWKHLHYSHPII GSSGLSRVYVARLSSNSRIINHQTGLQNLHLDSCSRNLYVSLIILLYKTFGWKHLHYSHPII LGFRKIPMGVGLSPFLAQFTSAICSVVRRAPPHCLAFS-----GAKSVQHLESLEFTA LGFRKIPMGVGLSPFLAQFTSAICSVVRRAPPHCLAFS-----GAKSVQHLESLEFTA VTNFIILSLGTHLPNKTKRWGYSINFMGVYIGSWGSLPODHIRHKIKECFRKLPVHRPID VTNFIILSLGTHLPNKTKRWGYSINFMGVYIGSWGSLPODHIRHKIKECFRKLPVHRPID WKVCQRIVGLLGFAPFTQCGYPALMPLVACIQSKQAFTFSPTYKAFCKQYINLYPVAR WKVCQRIVGLLGFAPFTQCGYPALMPLVACIQSKQAFTFSPTYKAFCKQYINLYPVAR QREGLCQVADATPTGWLGMVGHQMRGTFS----- QREGLCQVADATPTGWLGMVGHQMRGTFS----- -----SRKYTSFPWLLGCAANWILRGTSFVYVPSALNPADDPSRGLGCRPLHLHFRPT svv1SRKYTSFPWLLGCAANWILRGTSFVYVPSALNPADDPSRGLGCRPLHLHFRPT TGRTSLYADSESVFSLHFDRIHFASPLHVAWRFP TGRTSLYADSESVFSLHFDRIHFASPLHVAWRFP Poly 339 - 832
(MOD-1755596) HBV D SHE (Env) HBe HBV DB elements AB048701	Env2 164-389
(MOD-1755596) HBV D SHE (Env) HBe HBV DB elements AB048701	Core (1-151) & Pre C (29)
(MOD-1755596) HBV D SHE (Env) HBe HBV DB elements AB048701	HBX 1-154
(MOD-1755596) HBV D SHE (Env) HBe HBV DB elements AB048701	Poly 339 - 832

FIG. 15C

▼ Polymerase deletions - 538 - 544aa,
710-742aa

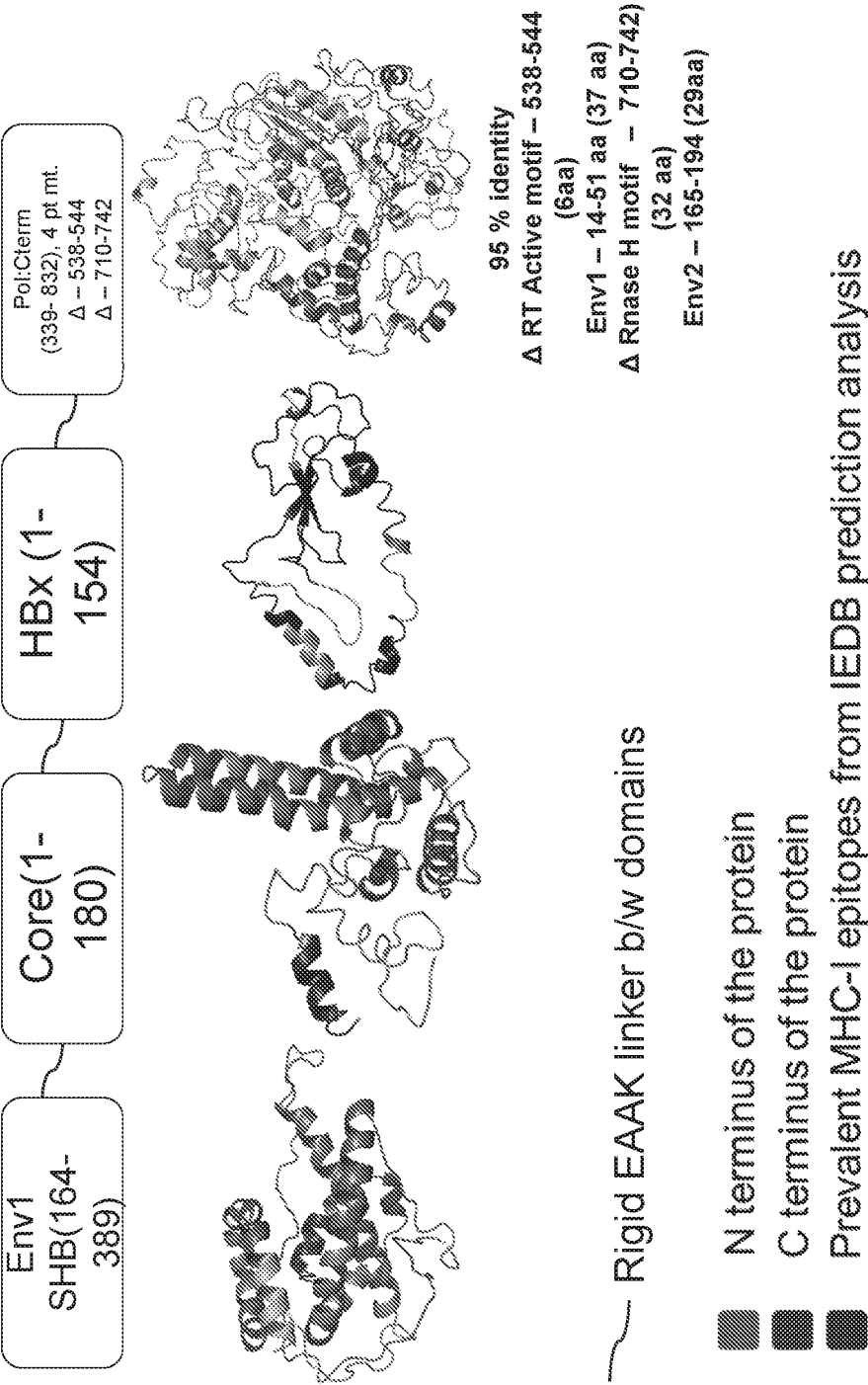


FIG. 16