

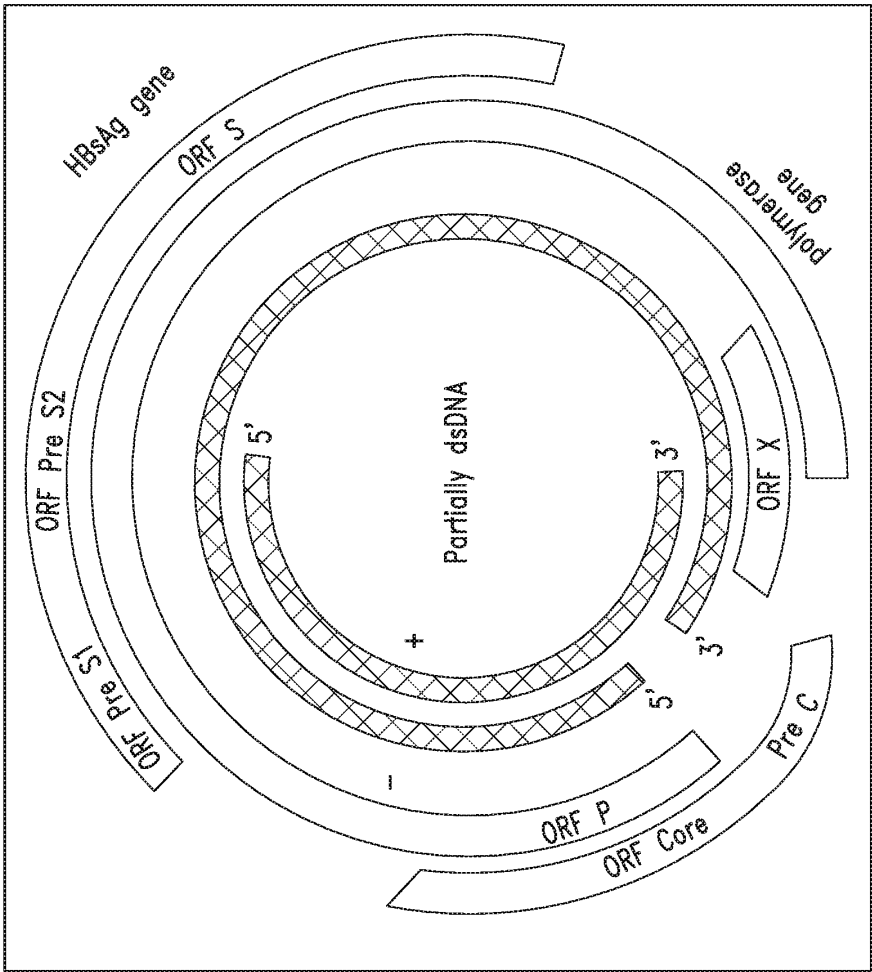


FIG. 1

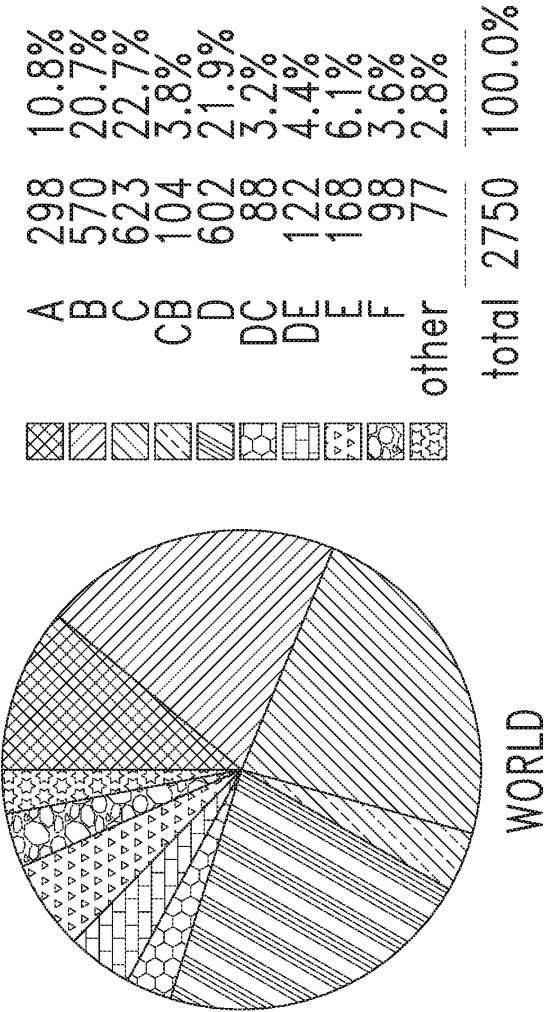


FIG. 2A

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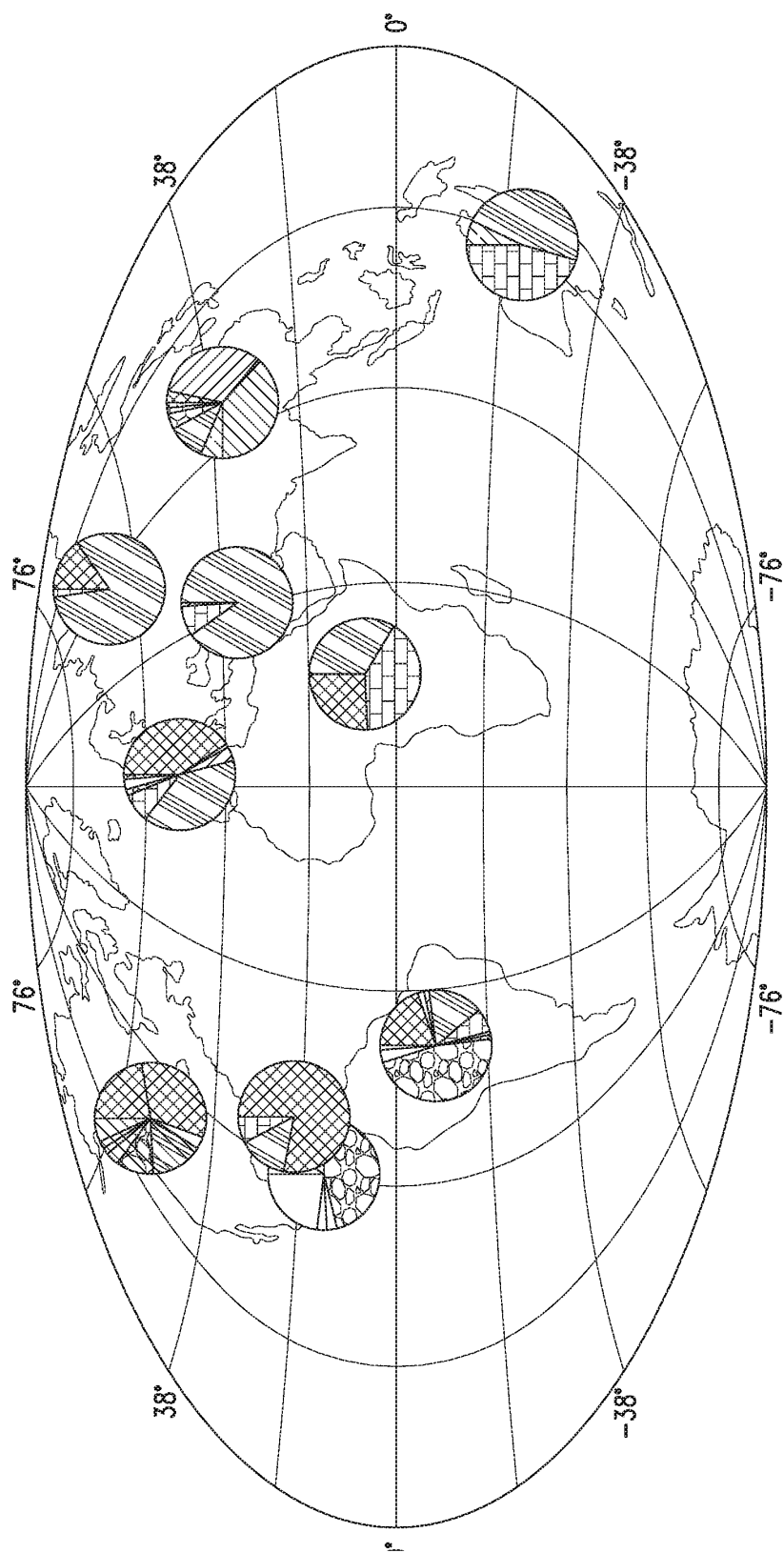


FIG. 2B

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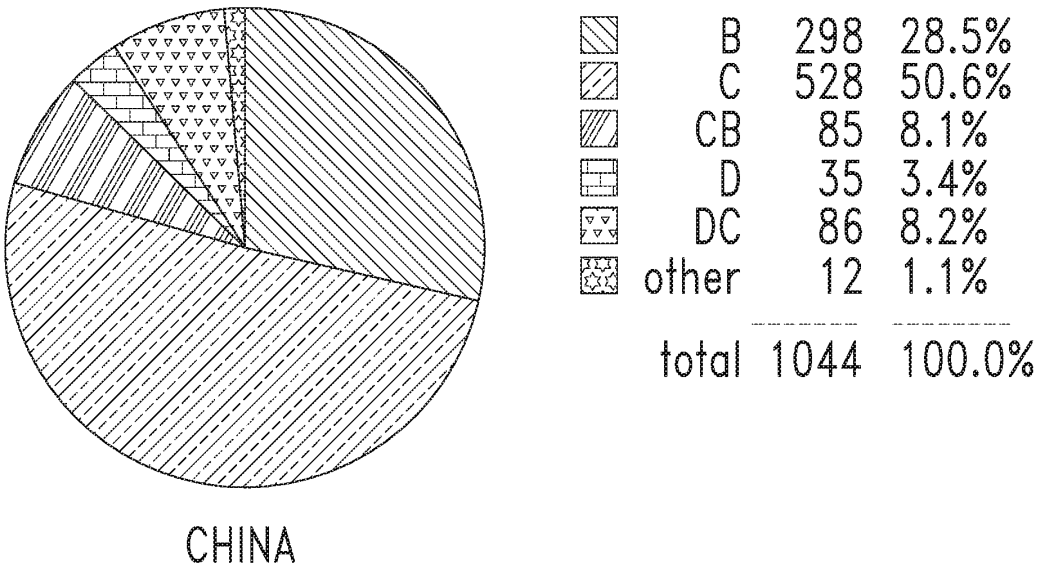
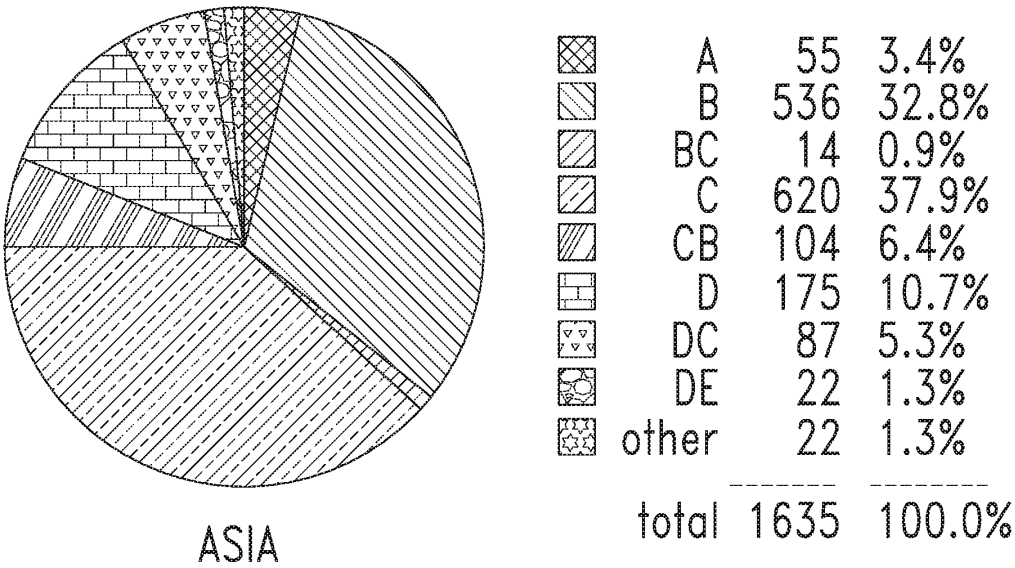


FIG. 3A

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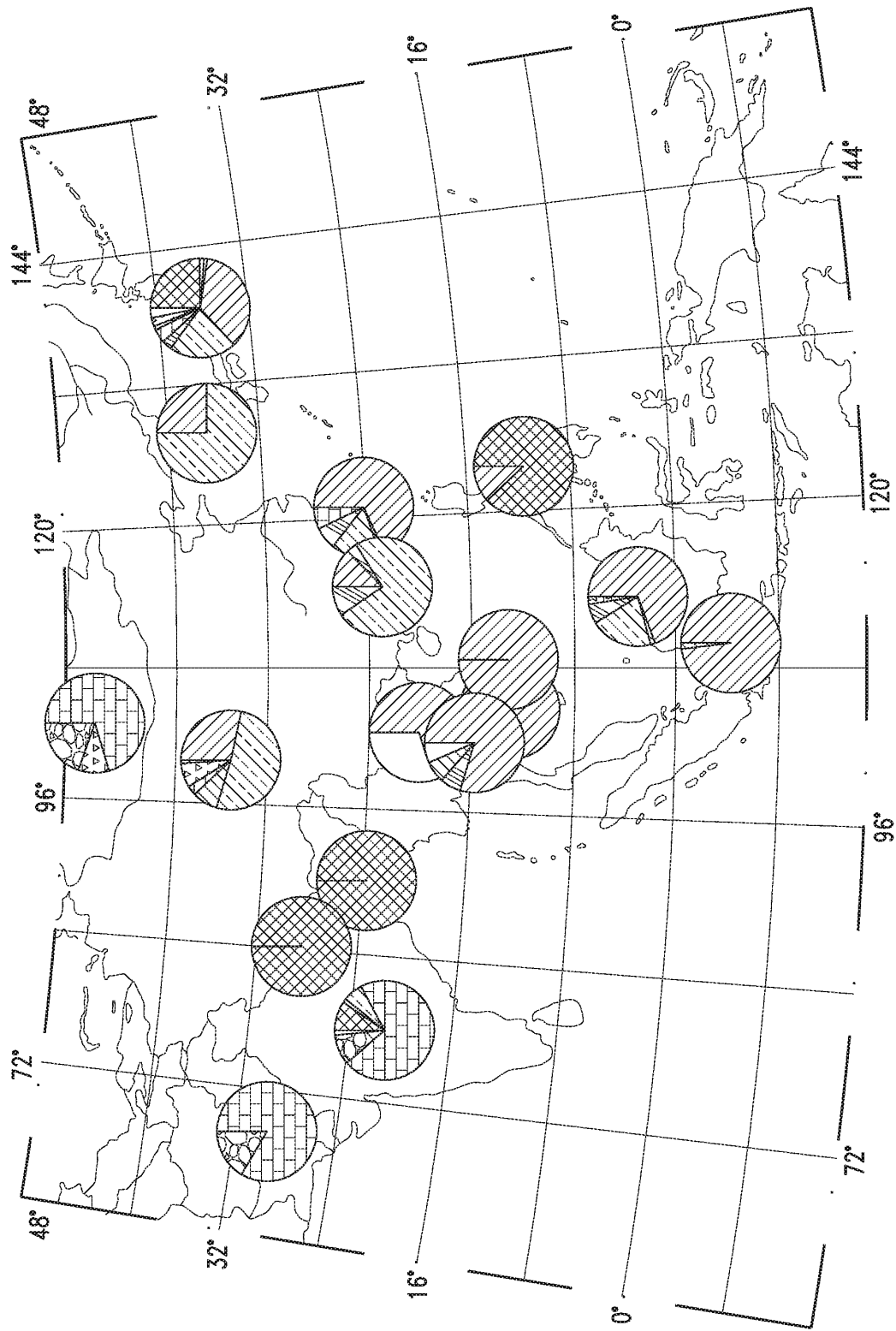
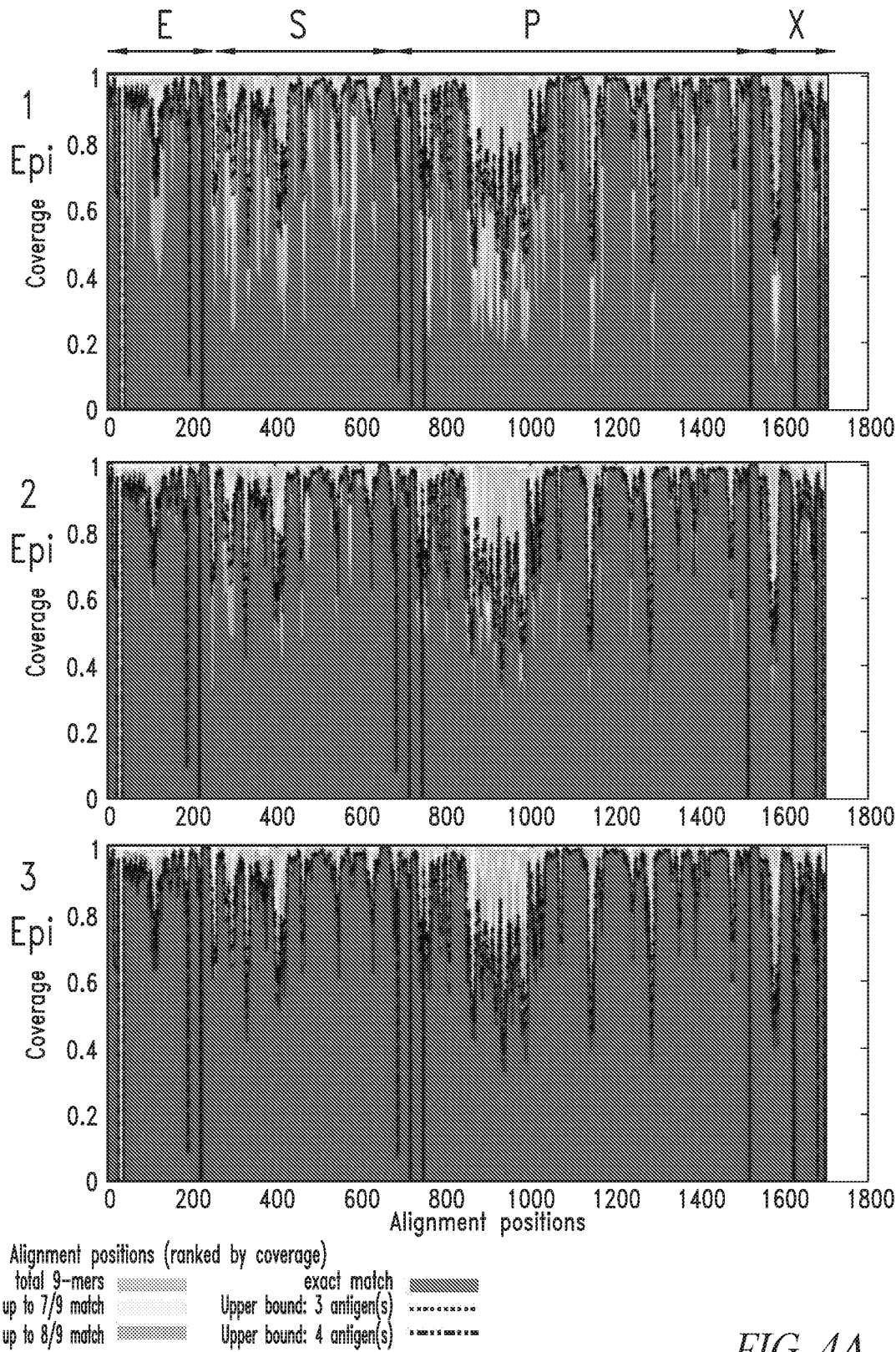
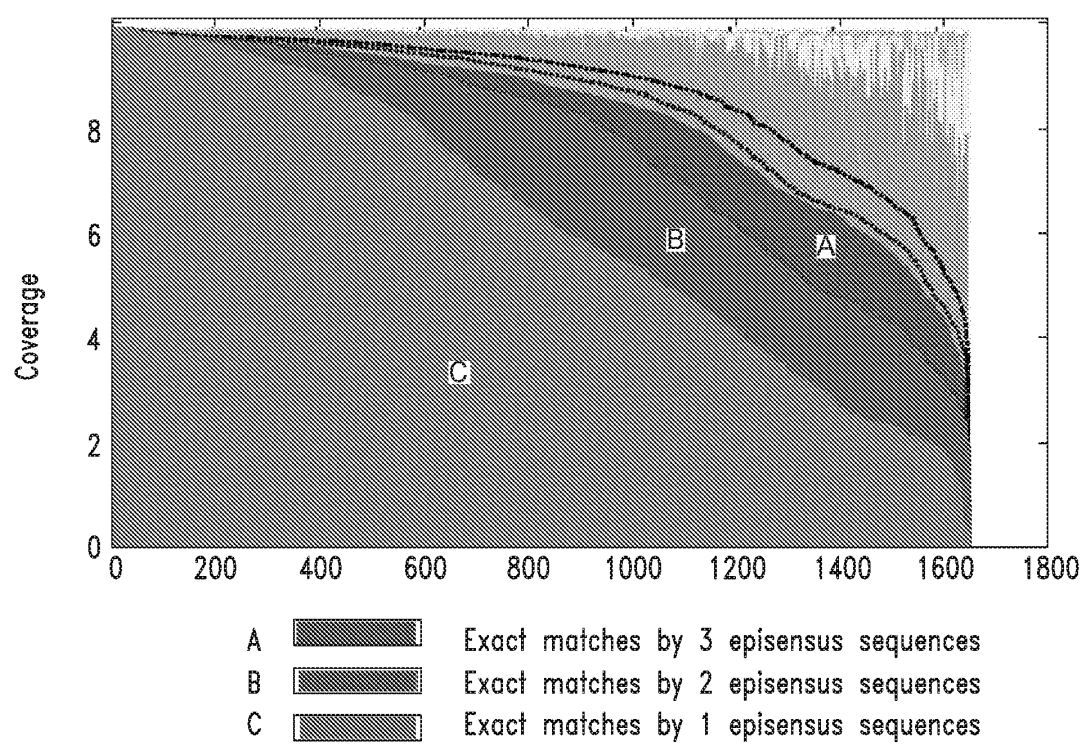


FIG. 3B

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*FIG. 4B*

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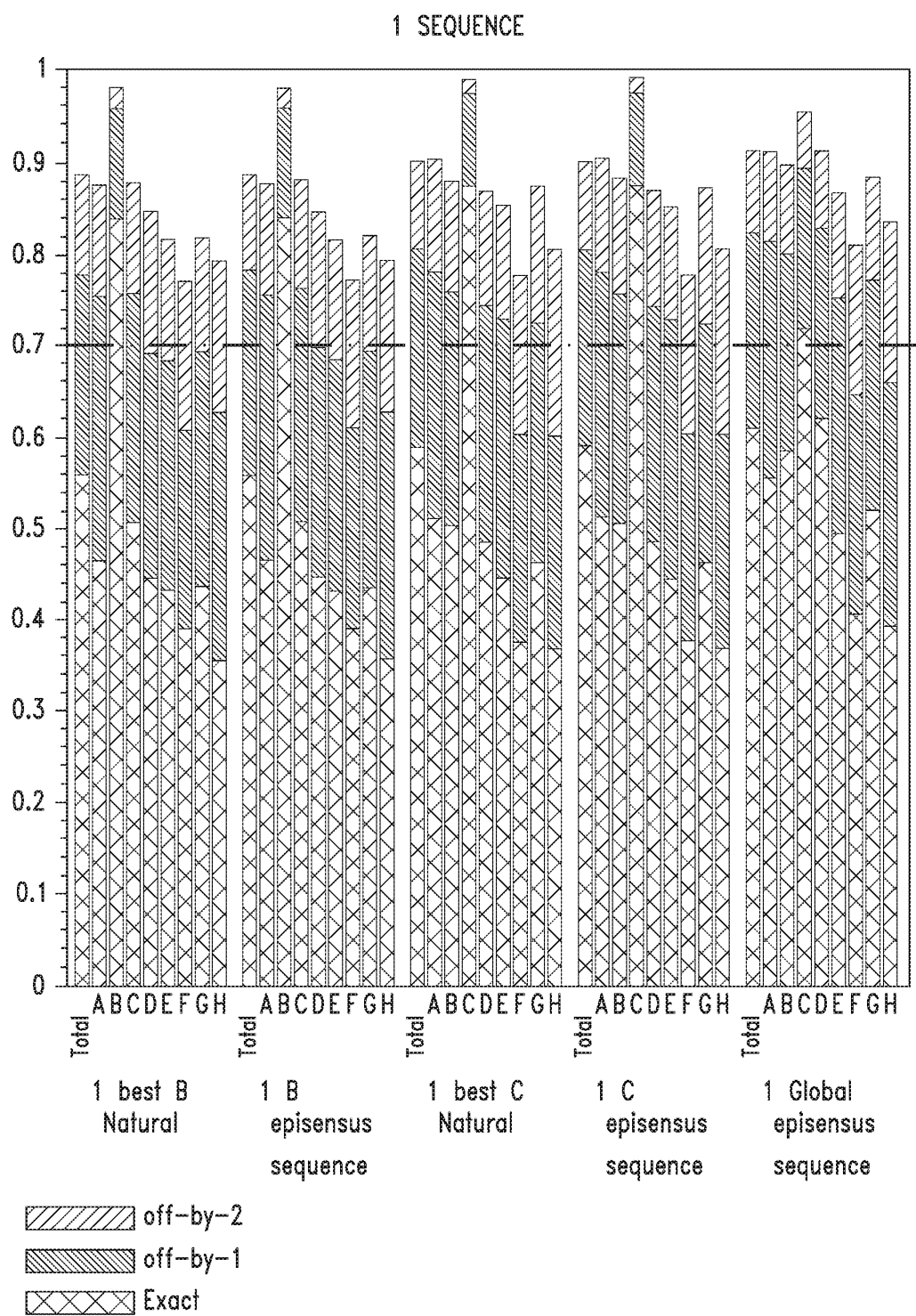


FIG. 5A

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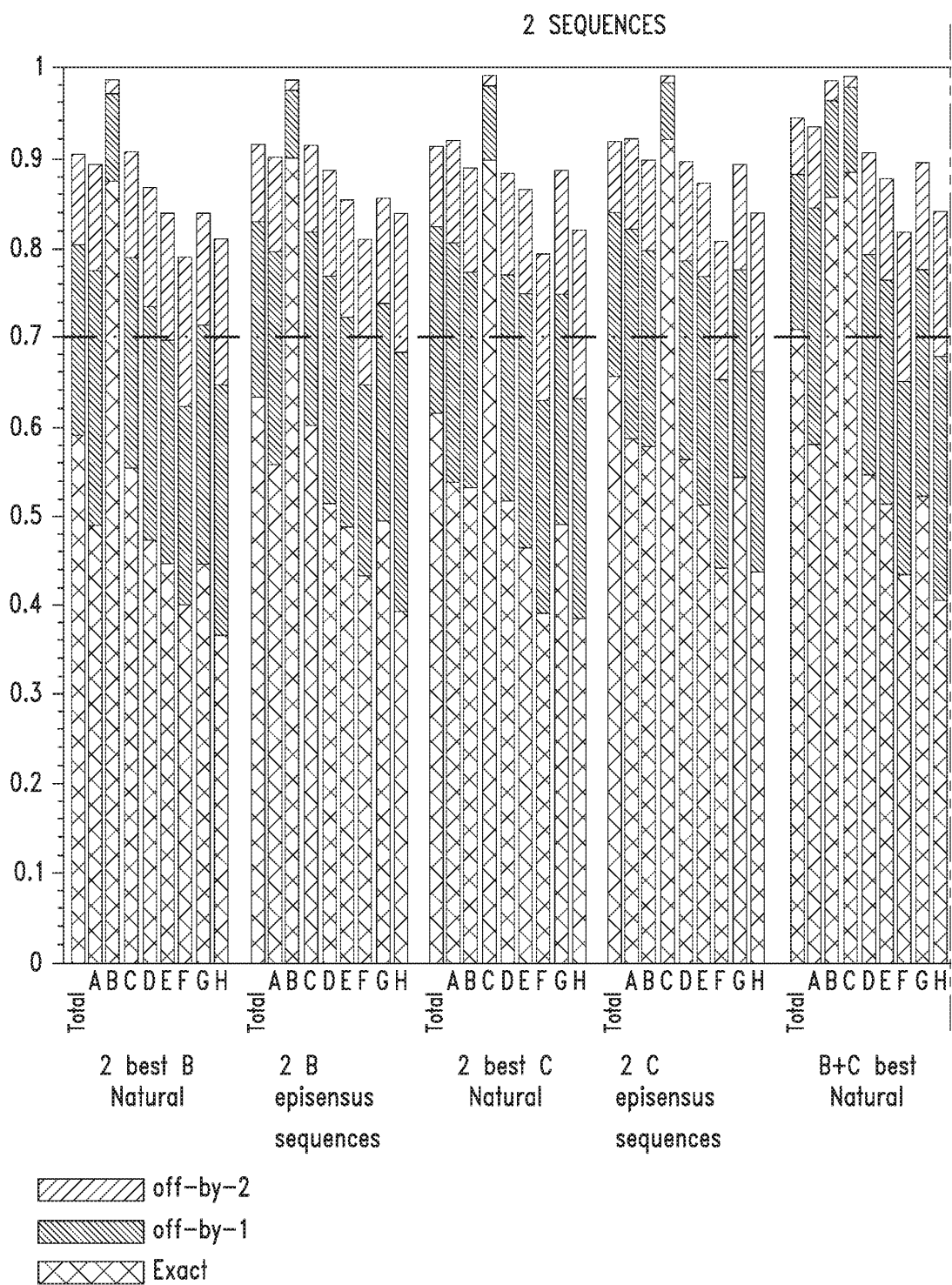


FIG. 5B

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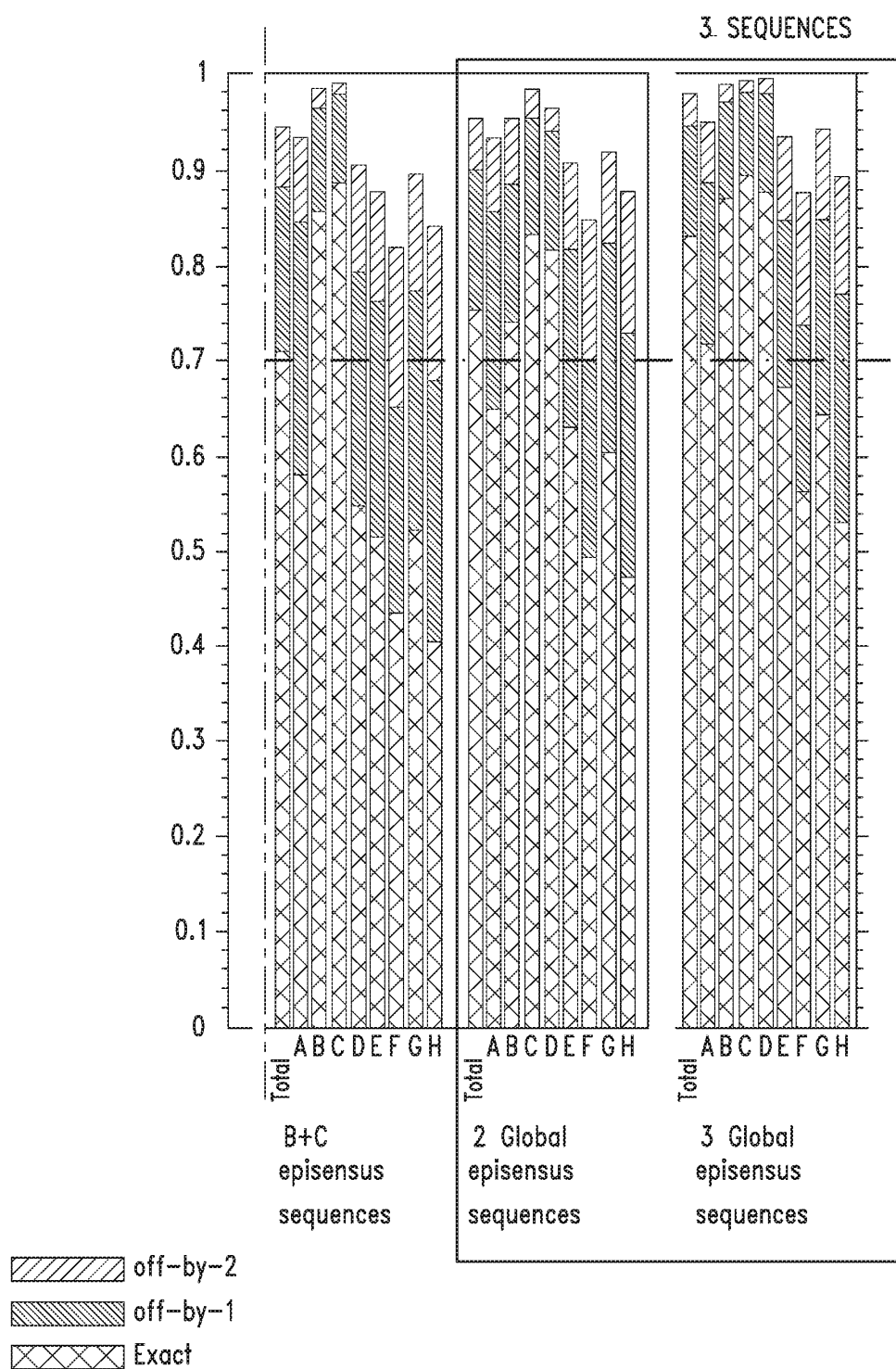


FIG. 5C

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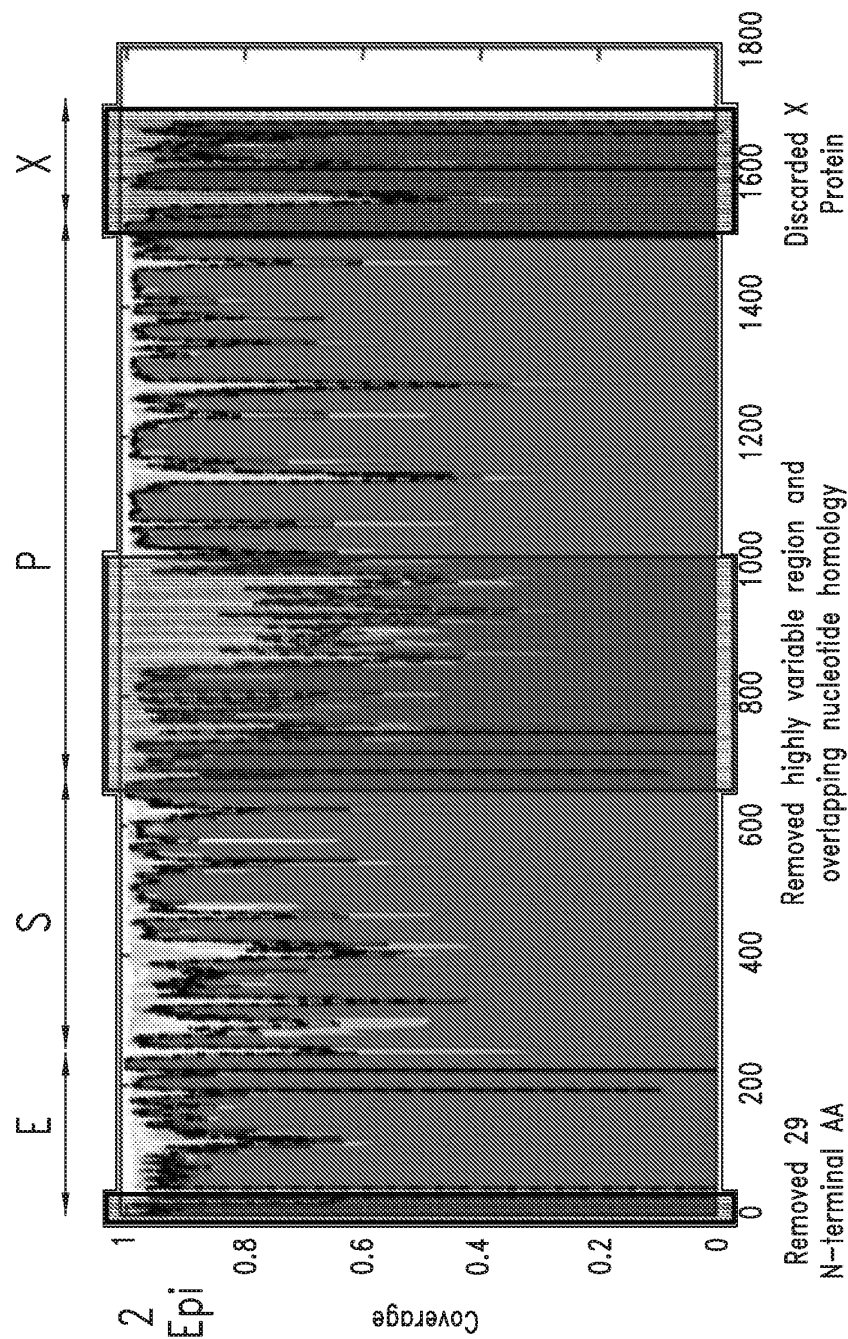


FIG. 6

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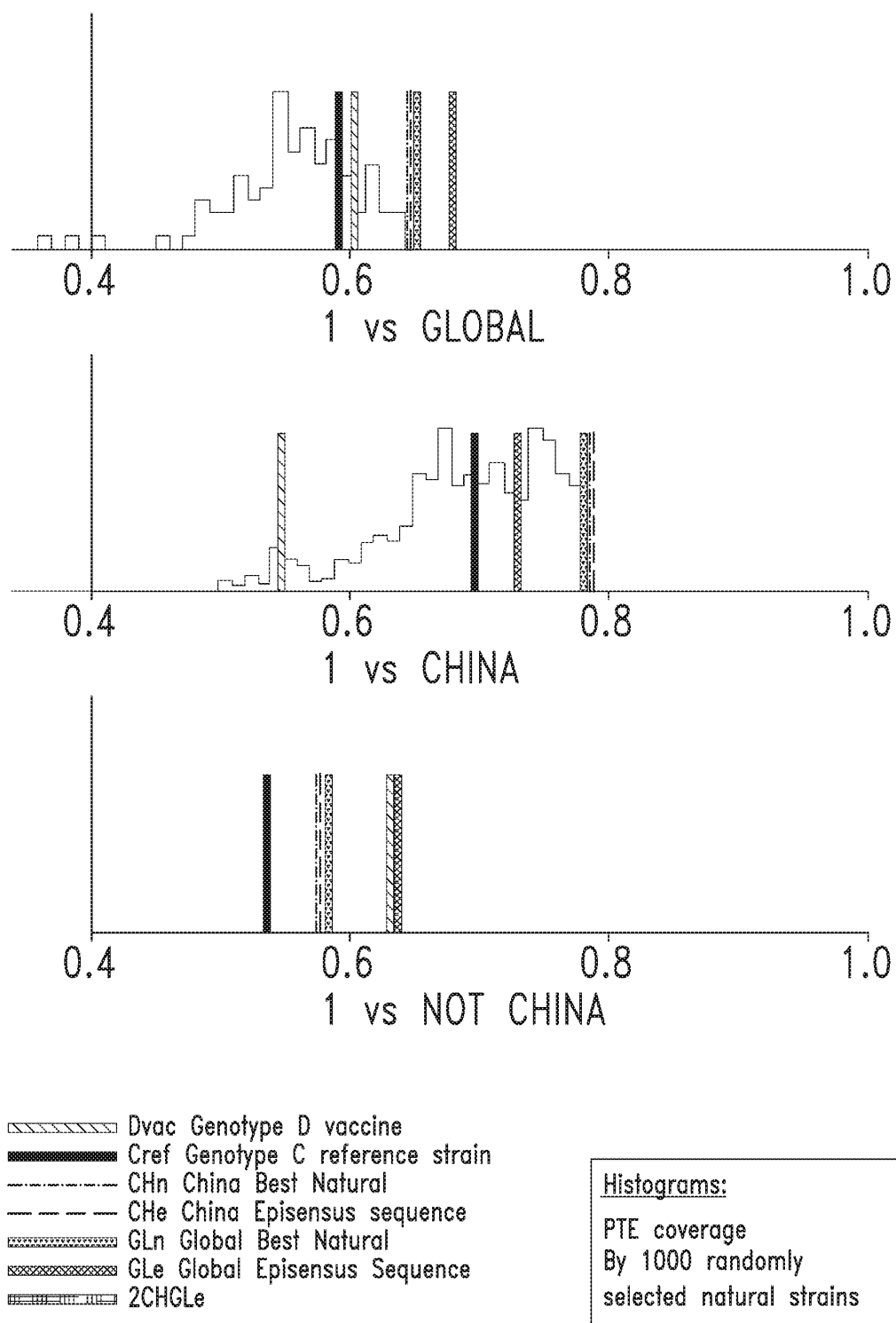


FIG. 7A

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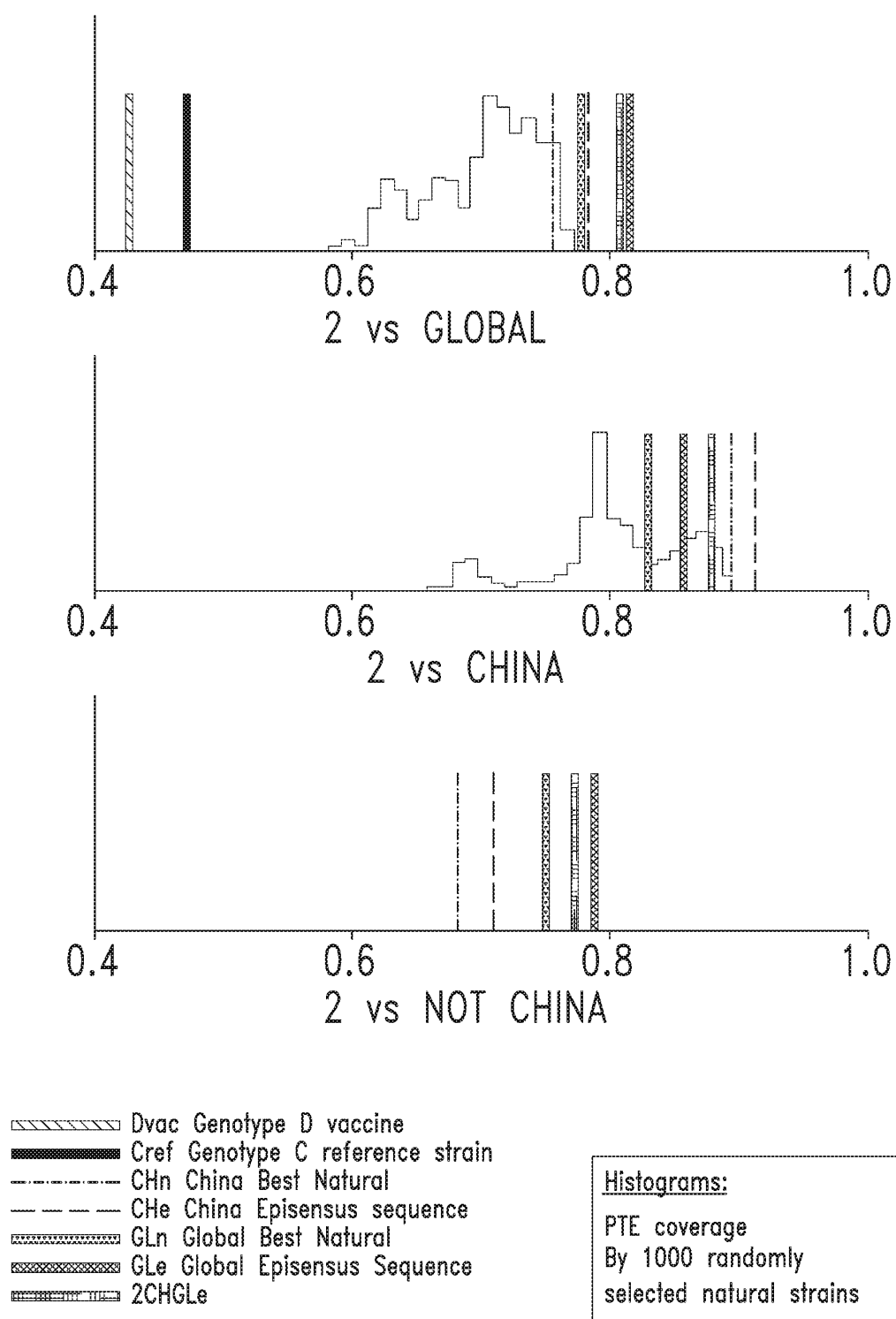


FIG. 7B

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	Vaccine	Parameters	China				NOT China				Global			
			Exact	loff	Rarest Epi	Rare Count	Exact	loff	Rarest Epi	Rare Count	Exact	loff	Rarest Epi	Rare Count
	1 D.vaccine (Y07587)		0.548	0.809	0	9	0.633	0.853	1	9	0.603	0.837	1	9
	1 C.vaccine (GQ358158)		0.696	0.913	0	9	0.536	0.820	1	23	0.591	0.852	1	5
	1 1_China_Nat	1 Best Natural China	0.786	0.929	177	1	0.576	0.825	42	1	0.649	0.861	219	1
E1	1 1_China_Epi	1; rare 20; aligned_1; first of 2 China	0.788	0.931	215	1	0.577	0.827	97	1	0.650	0.863	320	1
	1 1_China_Nat	1 Best Natural Global	0.781	0.927	7	1	0.583	0.828	19	2	0.652	0.823	27	2
C1	1 1_Global_Epi	1; rare 70; 1 off 1; aligned_1; first of 2 Global	0.731	0.926	6	2	0.637	0.883	51	2	0.679	0.898	100	1
	2 2_China_Nat	2 Best Natural China	0.894	0.984	2	9	0.681	0.897	0	9	0.755	0.927	2	9
E	2 2_China_Epi	1; rare 20; aligned	0.911	0.985	21	3	0.709	0.901	3	3	0.779	0.930	27	3
	2 2_China_Nat	2 Best Natural Global	0.829	0.956	0	9	0.749	0.823	1	9	0.777	0.935	1	9
A	2 2_China_Epi	1; rare 70	0.857	0.963	0	9	0.787	0.938	47	3	0.811	0.947	75	3
H	2 2_ChinaGlobal_Epi (first Epi optimized on gen China, fixed, and second Epi optimized on Global)	10110; rare 70; fixed China; aligned	0.879	0.971	0	9	0.772	0.930	47	3	0.809	0.944	75	3
D	3 3_China_Epi	10110; rare 15	0.924	0.992	0	65	0.848	0.961	2	1	0.875	0.971	16	10

FIG. 8

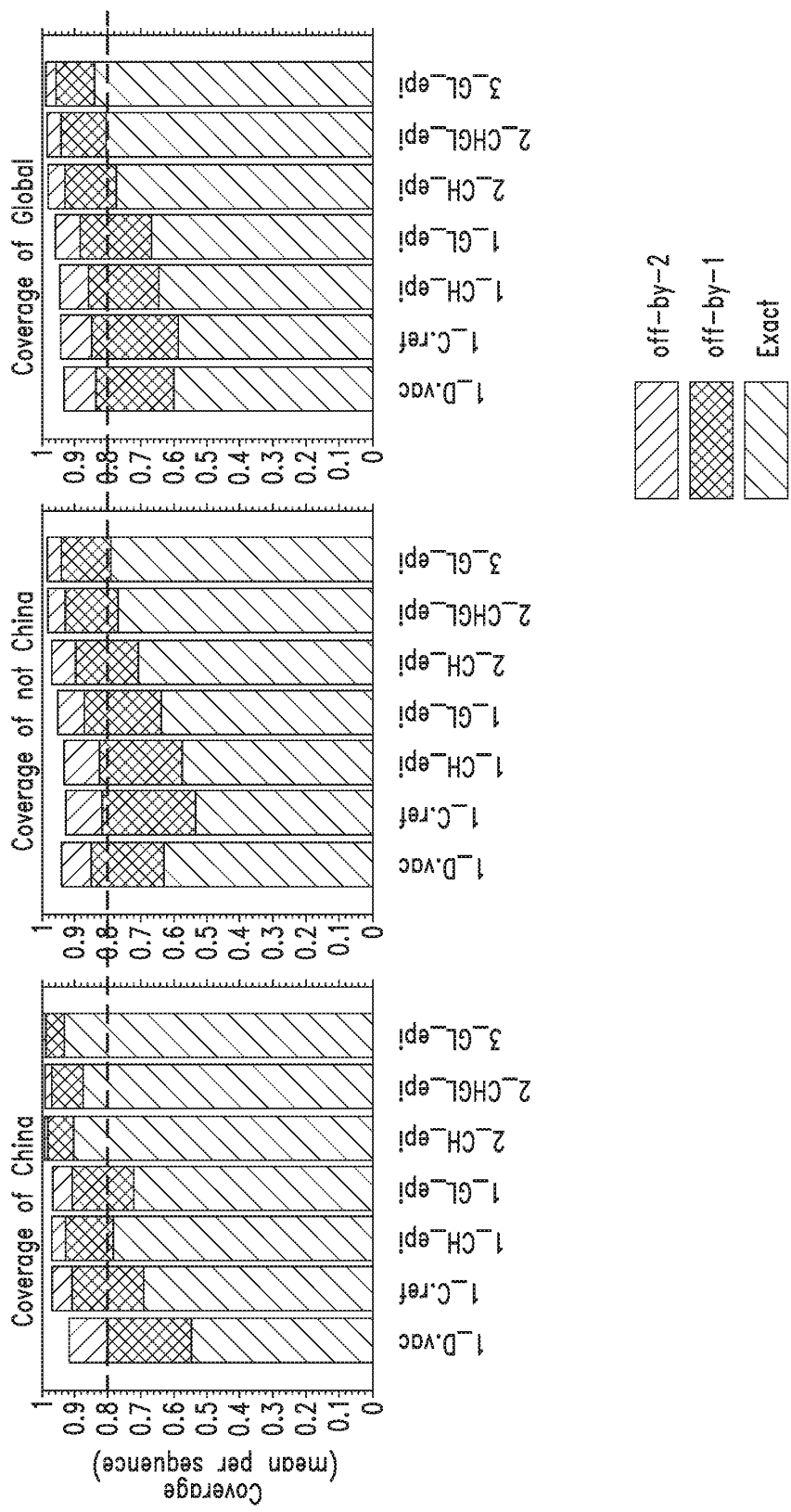


FIG. 9A

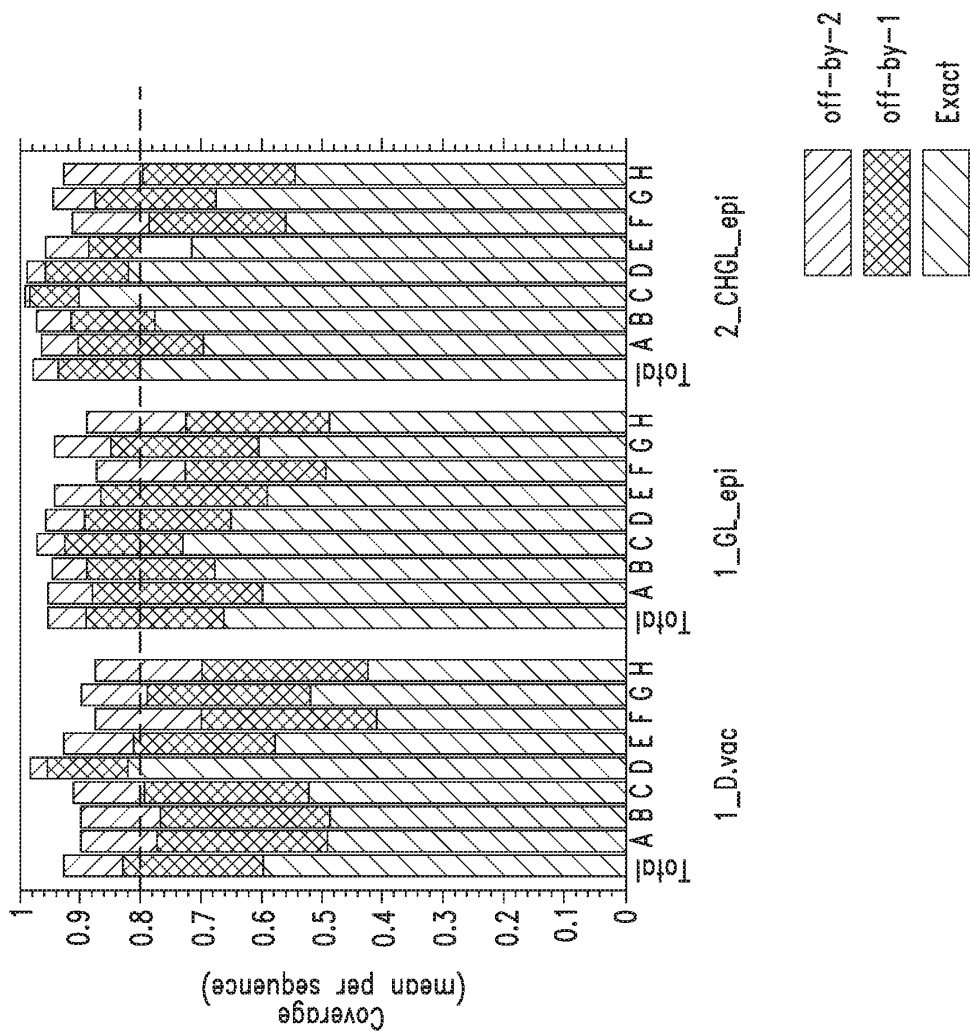


FIG. 9B

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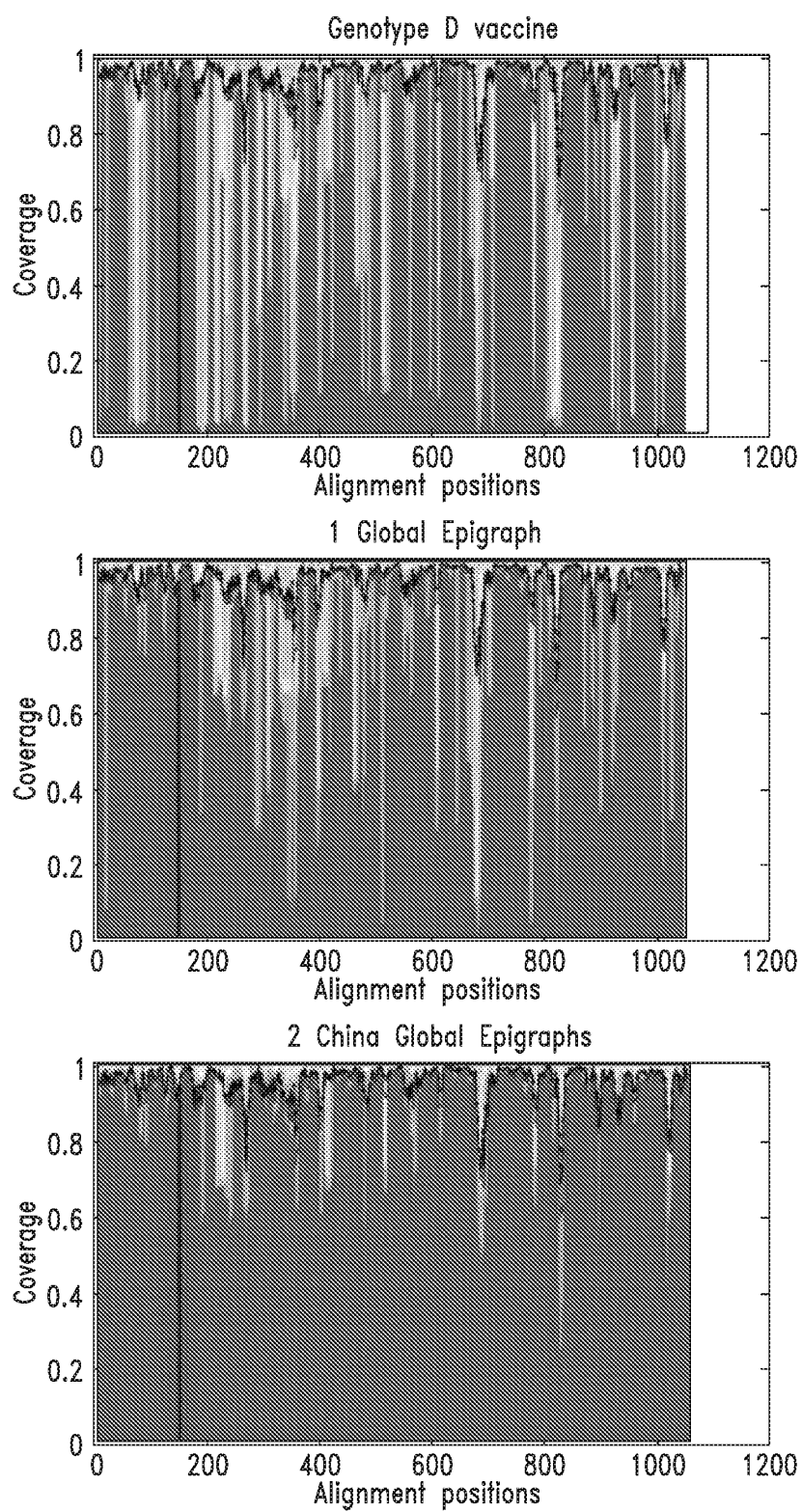
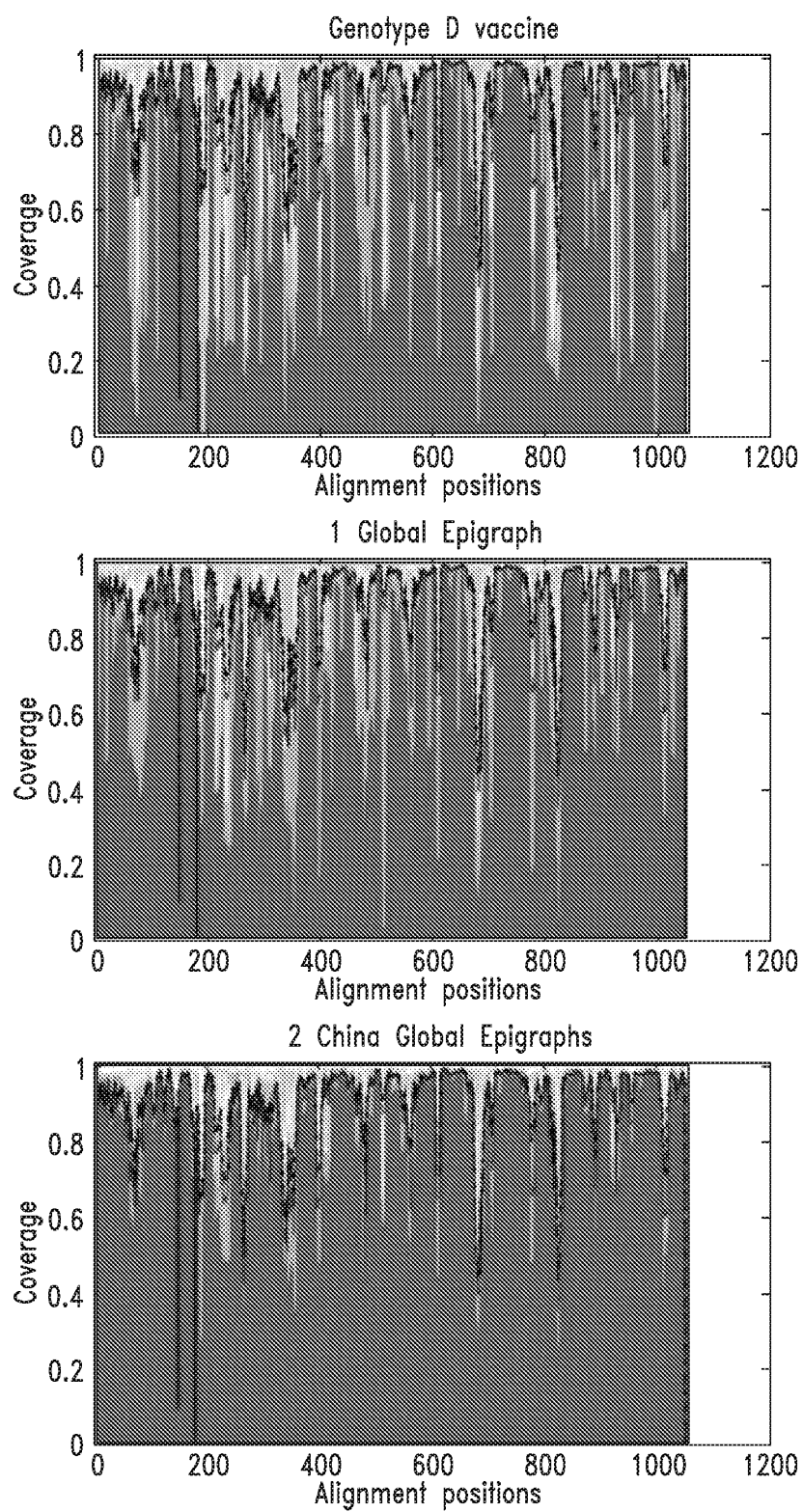
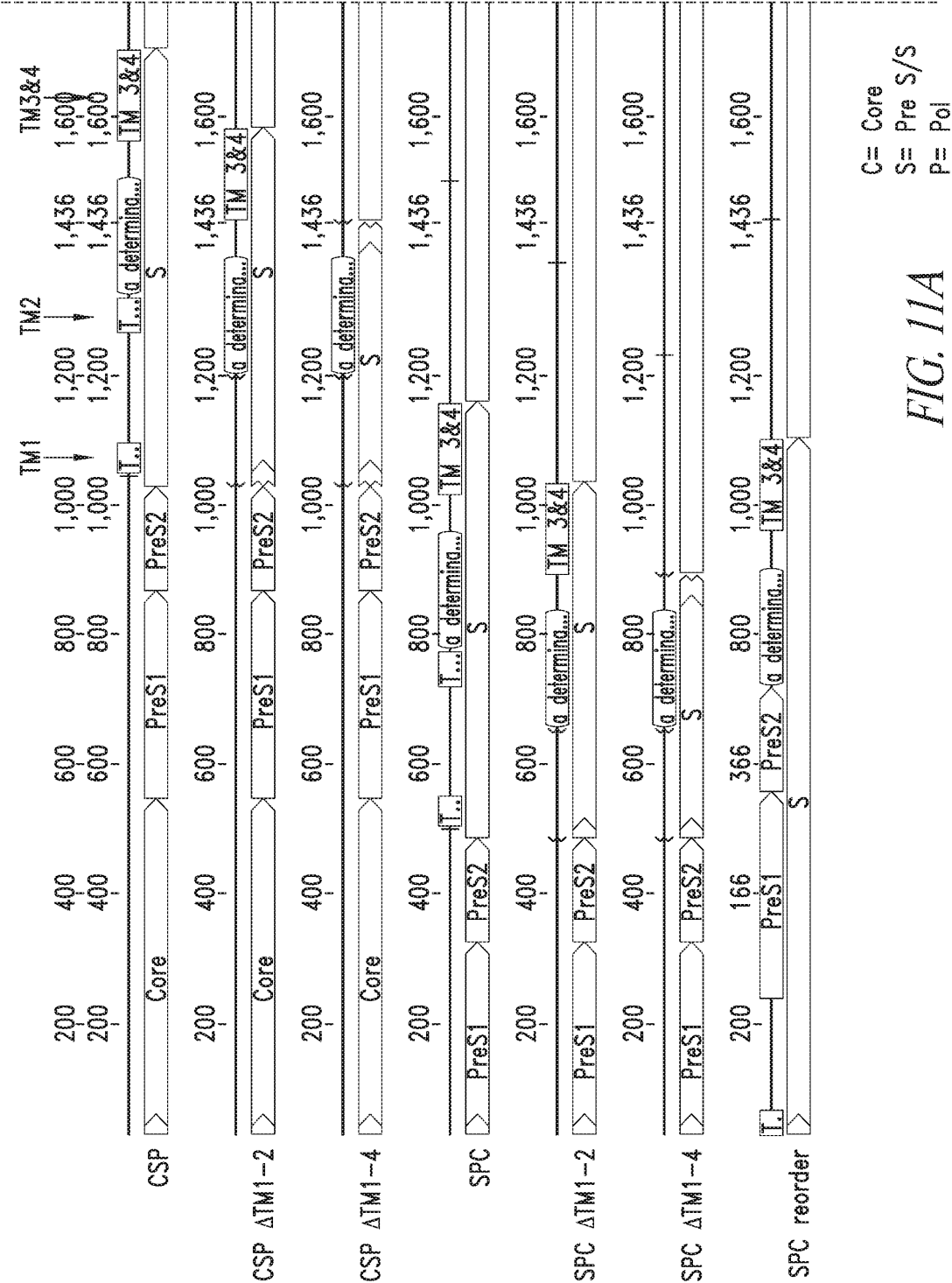
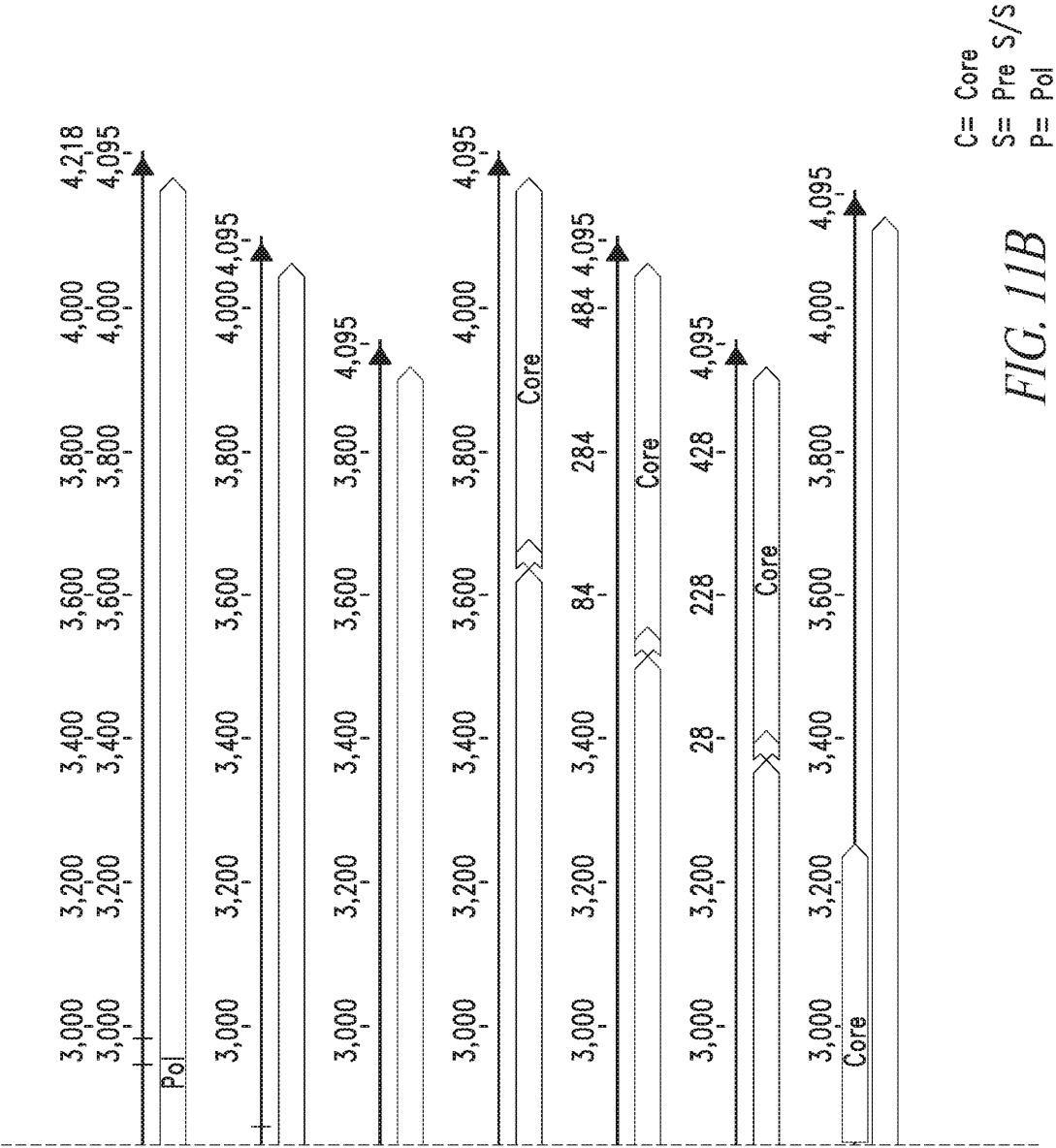


FIG. 10A

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*FIG. 10B*





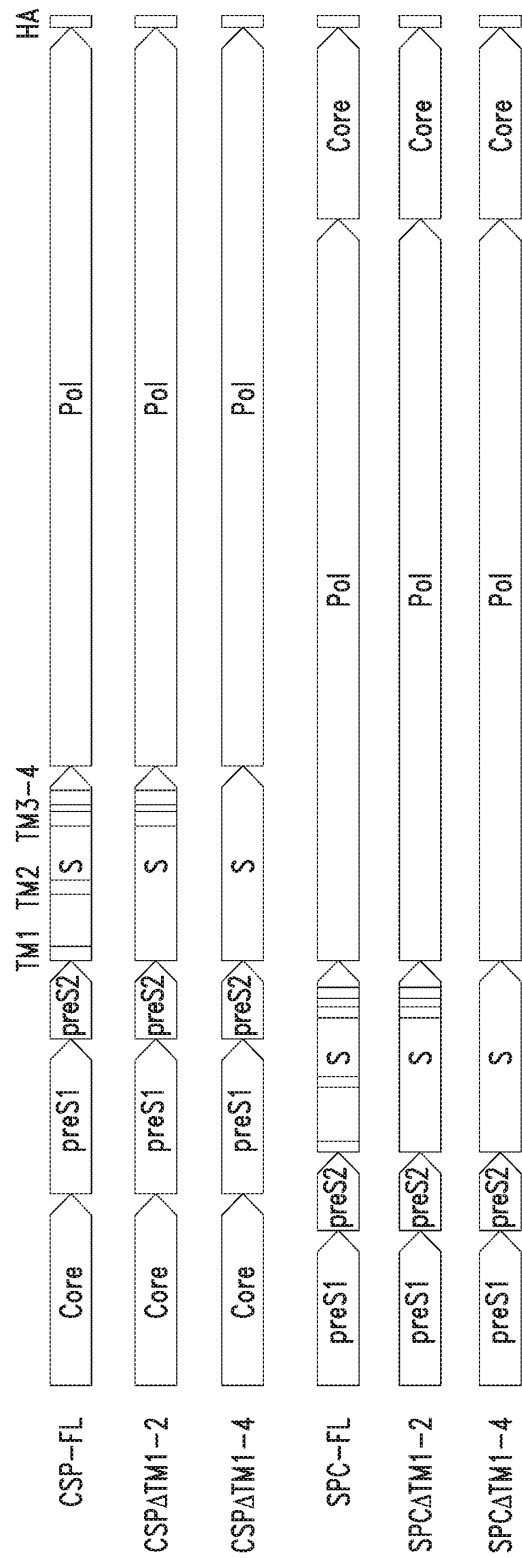


FIG. 11C

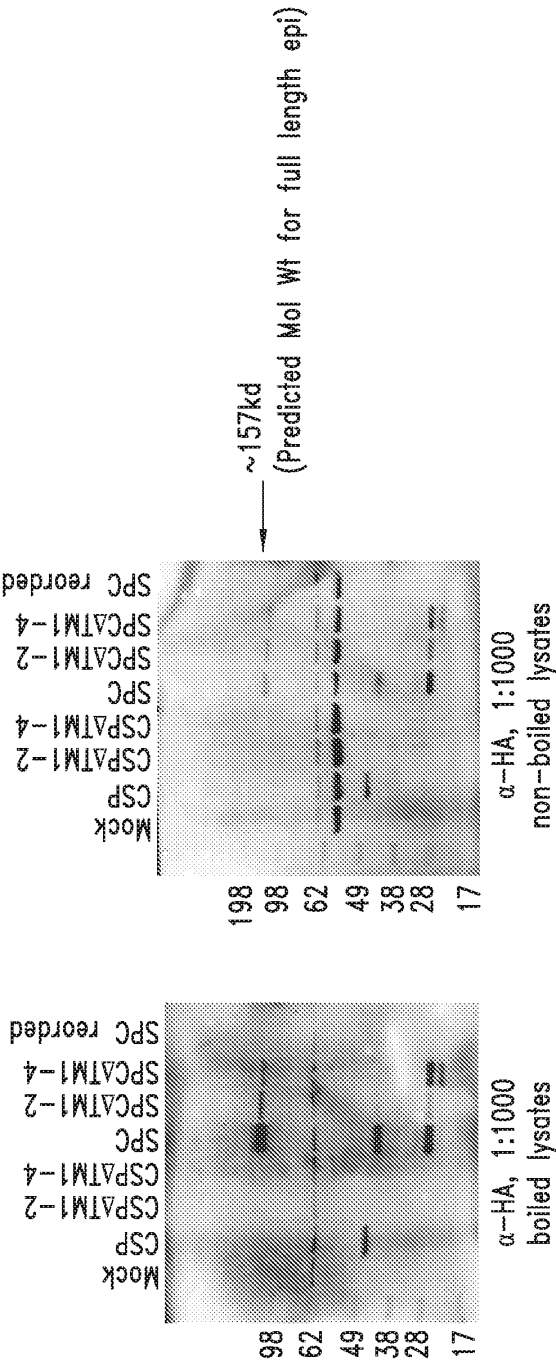


FIG. 11D

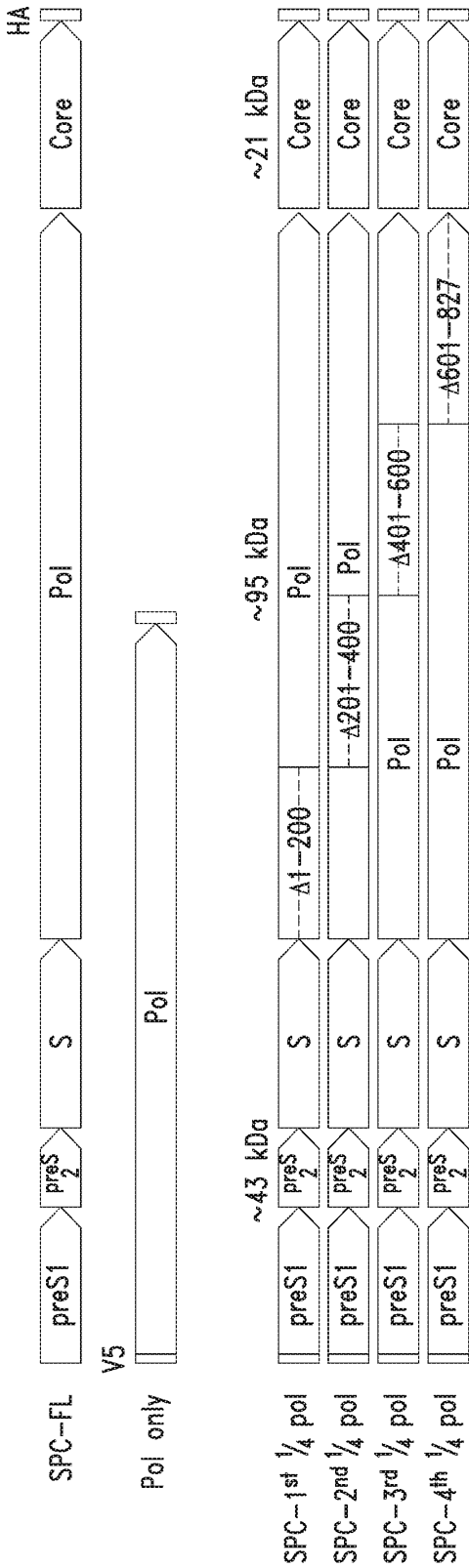


FIG. 12A

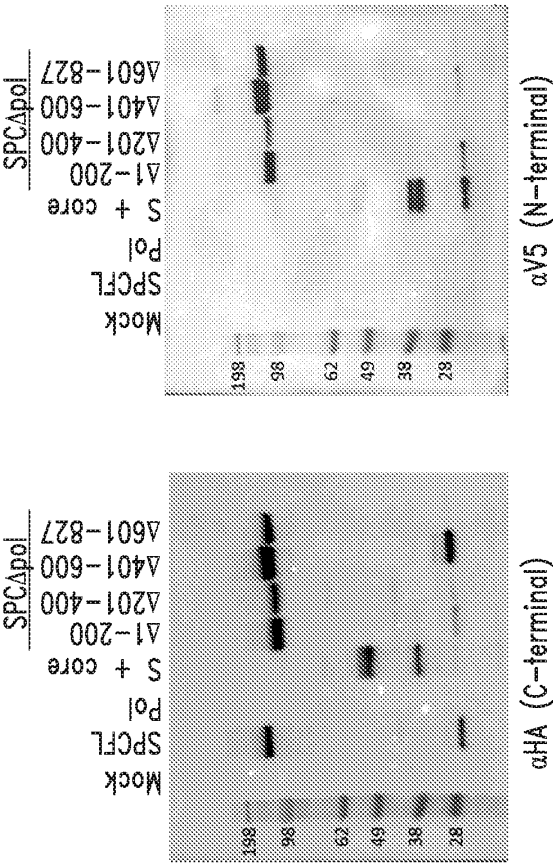


FIG. 12B