

Figure 1

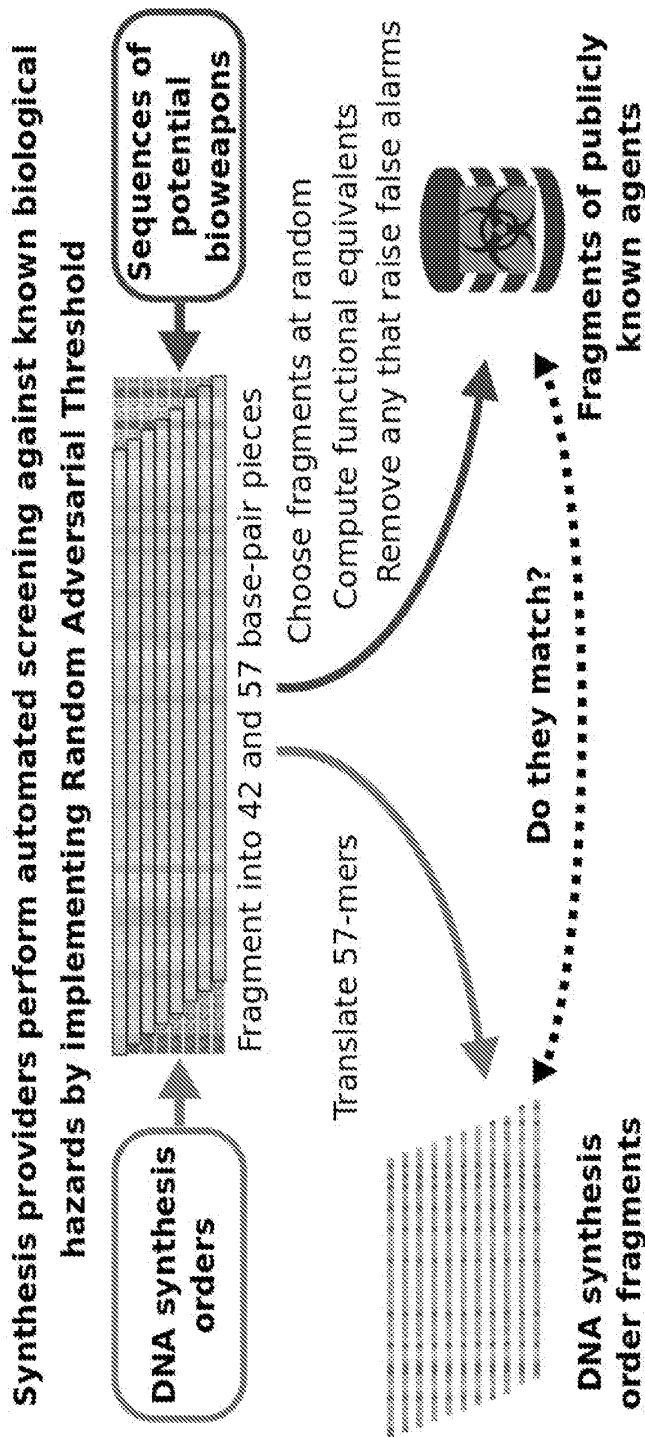


Figure 2

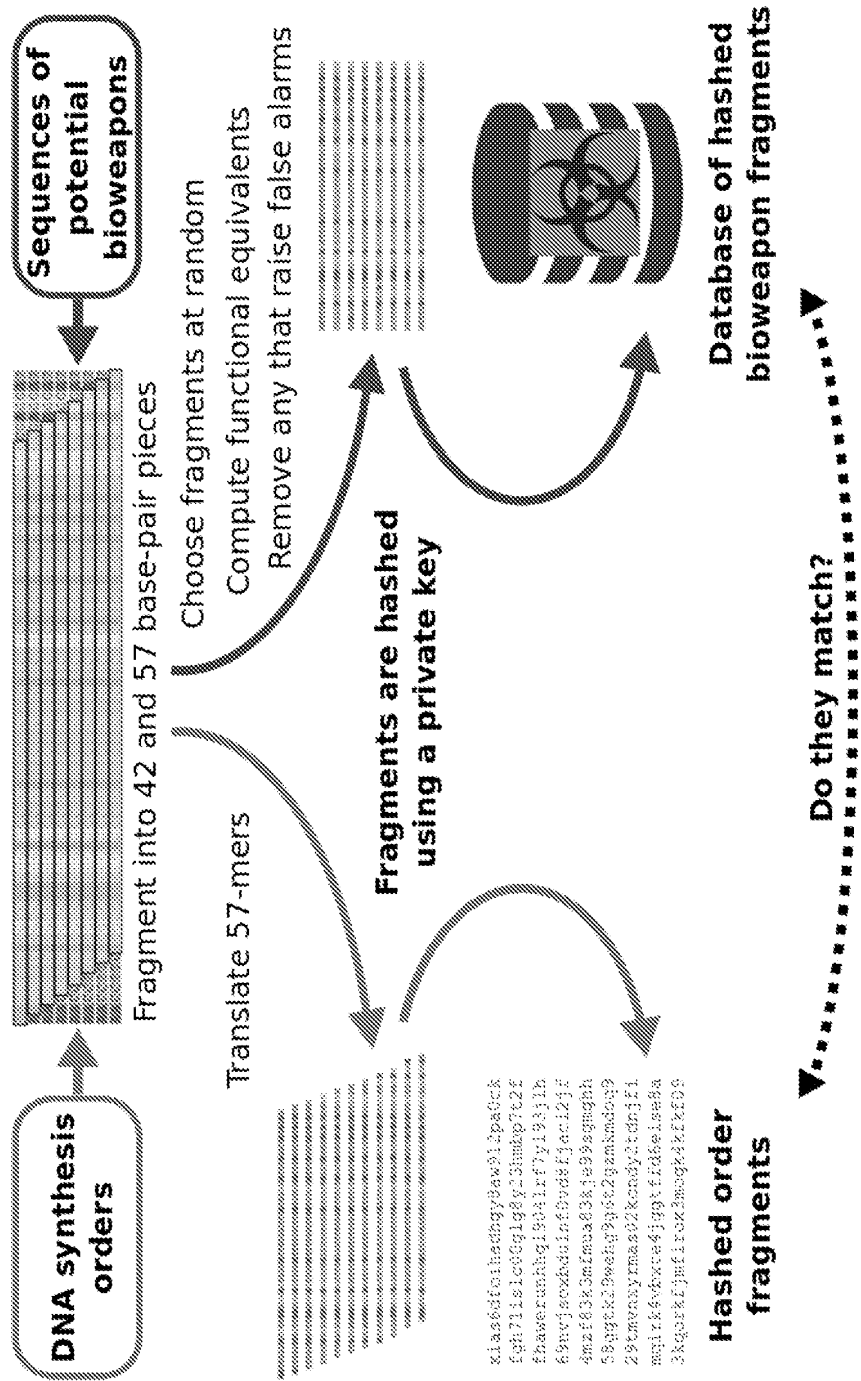


Fig. 3A

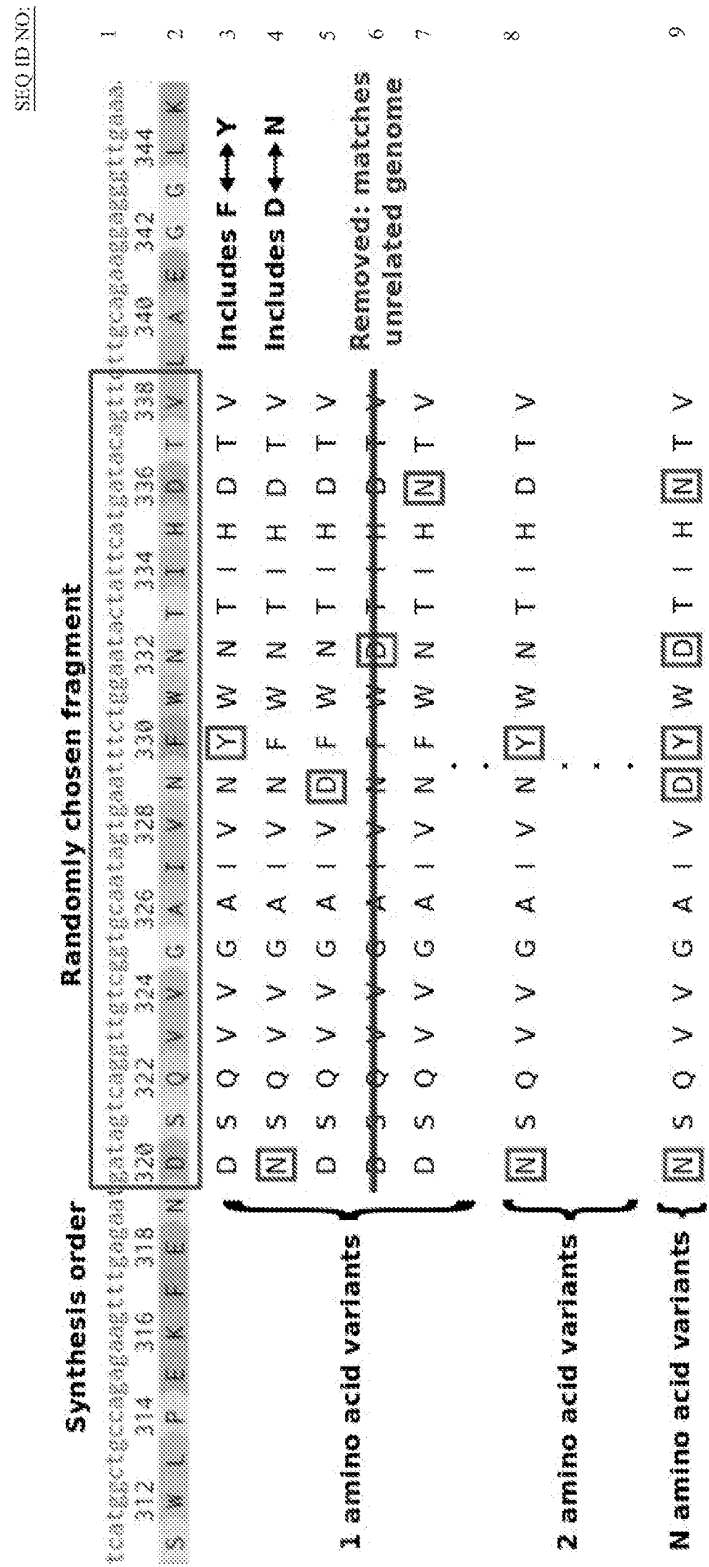
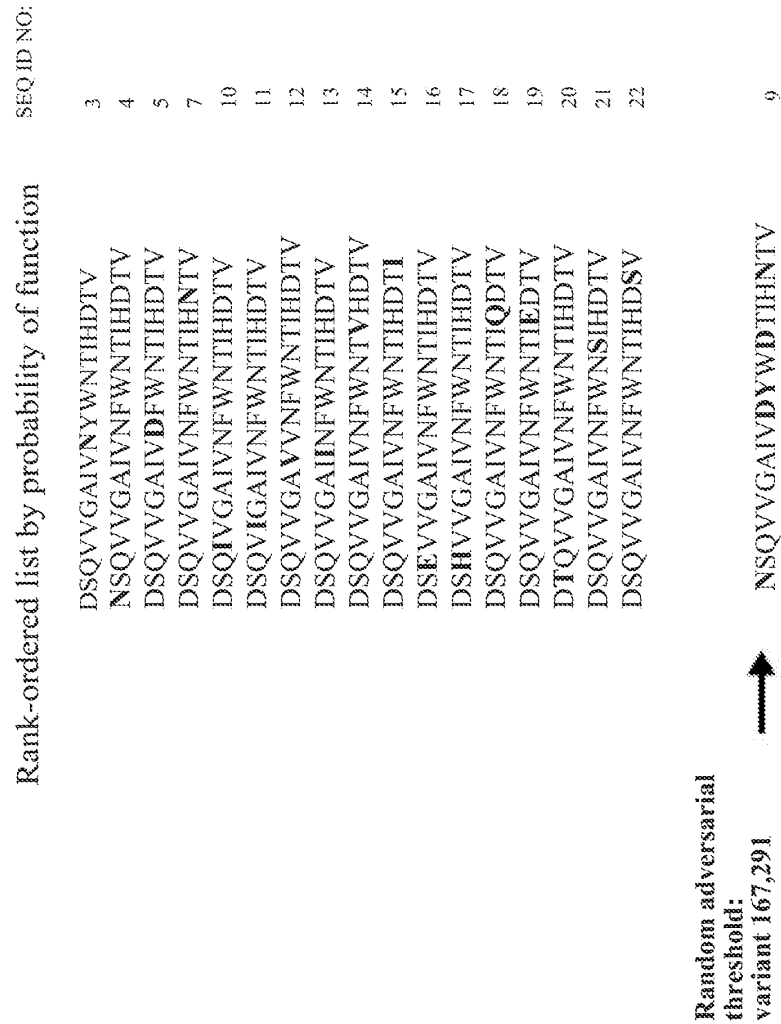
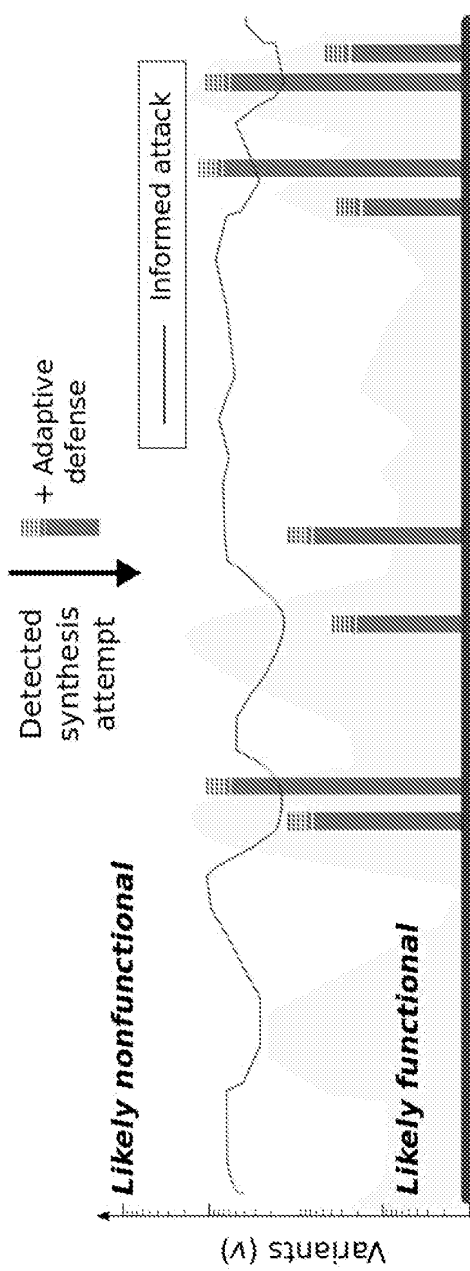
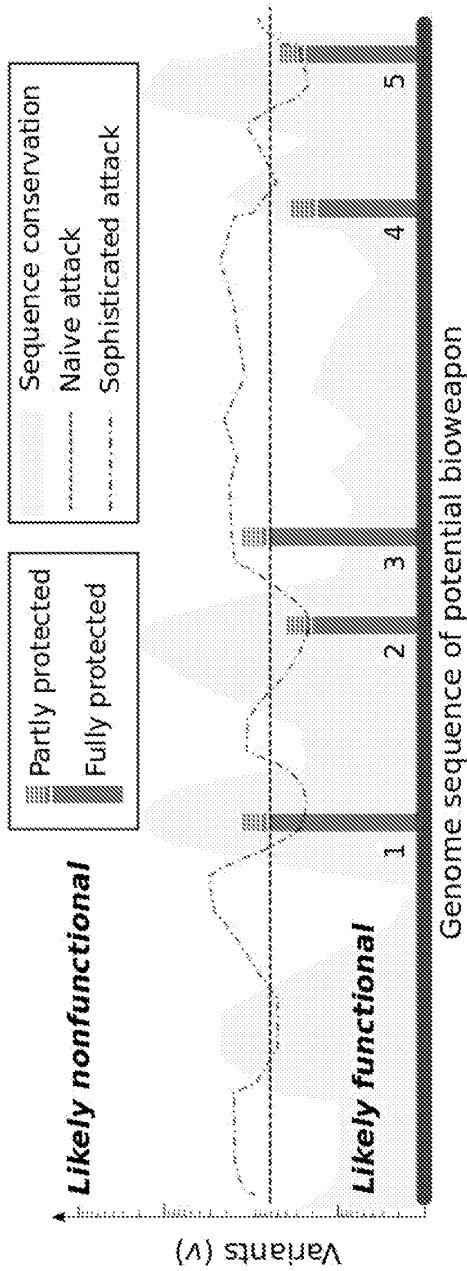


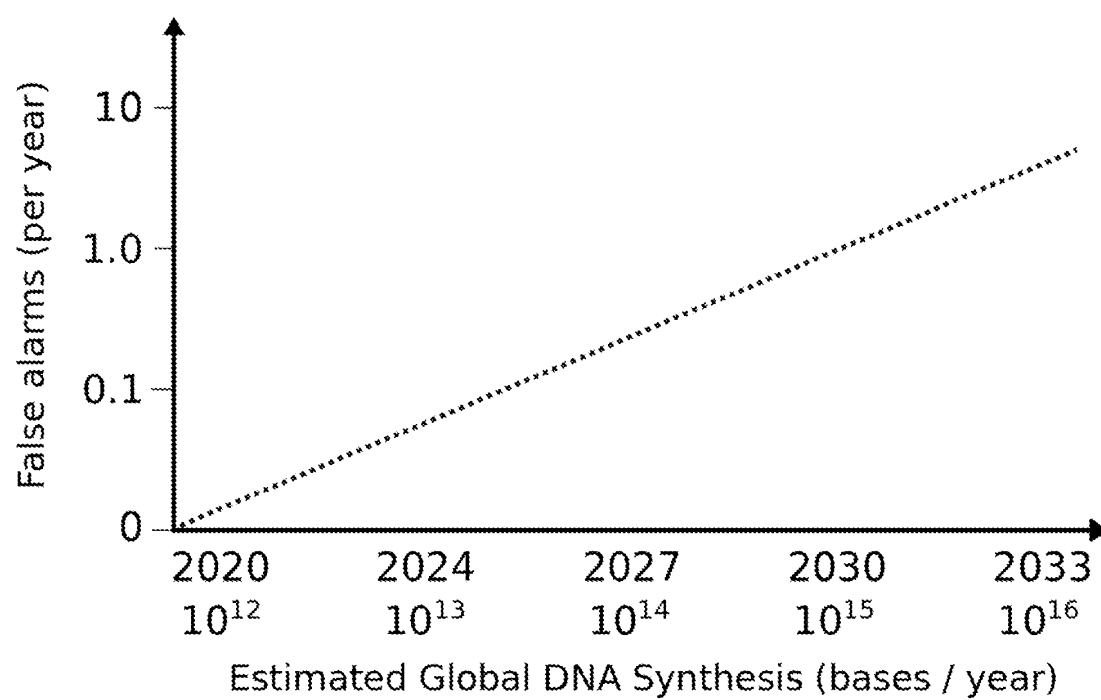
Fig. 3B





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Figure 5



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Figure 6

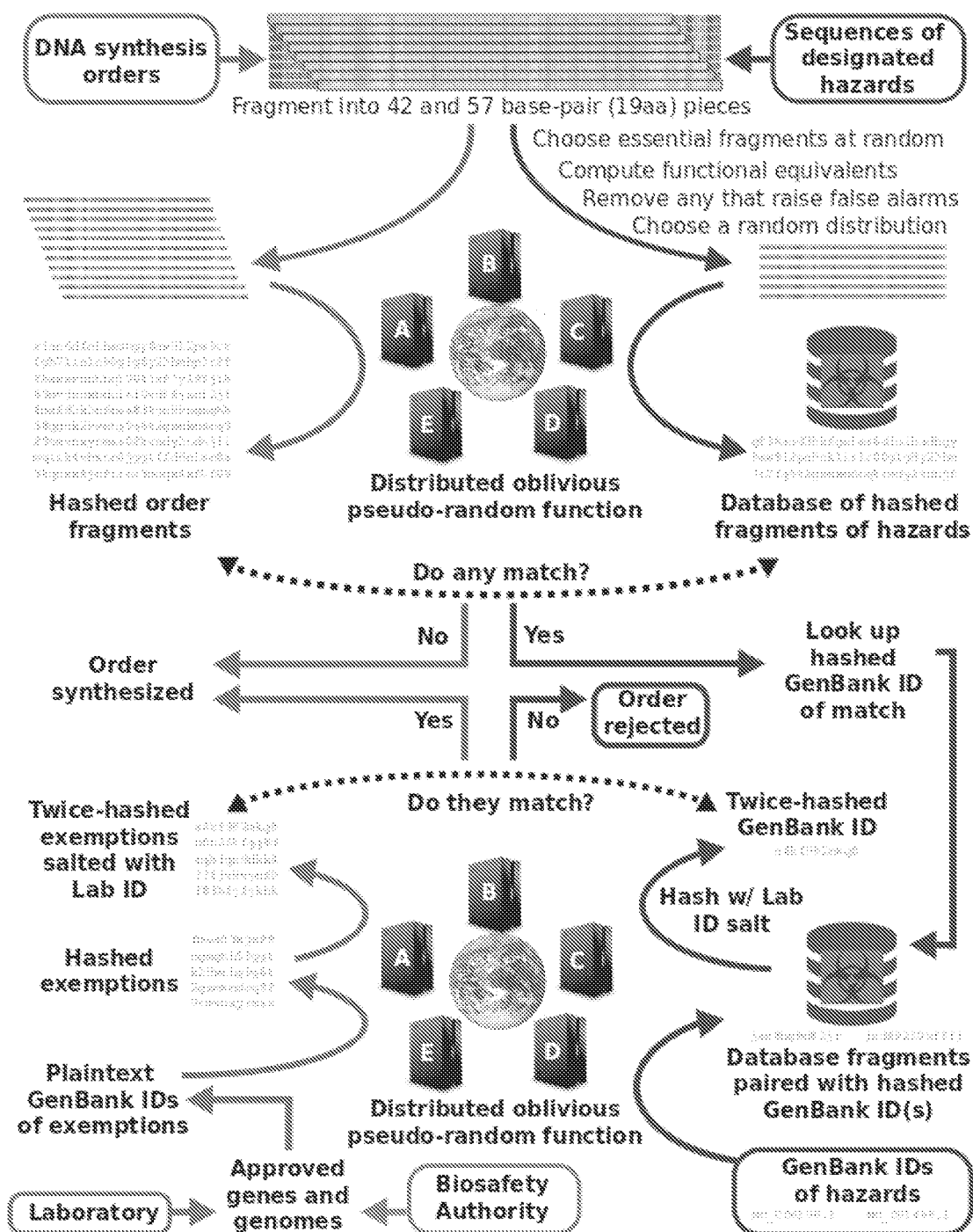


Figure 7

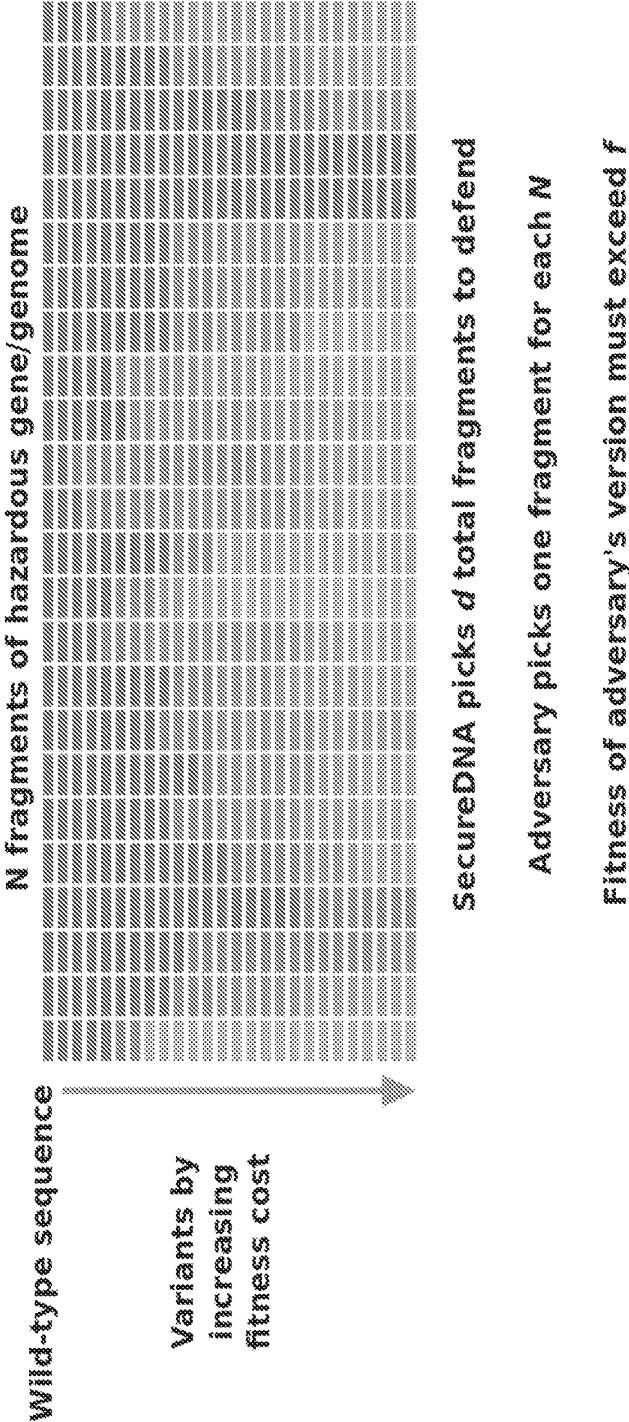
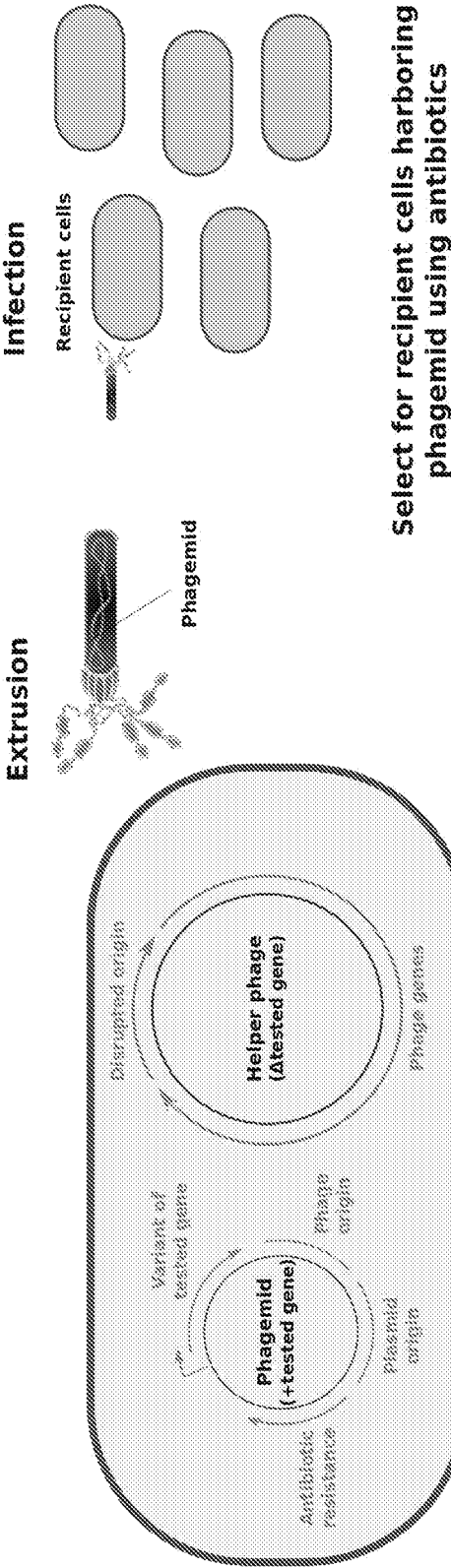


Figure 8



Sequence Before Selection

Sequence After Selection

Enrichment/de-enrichment relative to wild-type corresponds to variant fitness

Figure 9

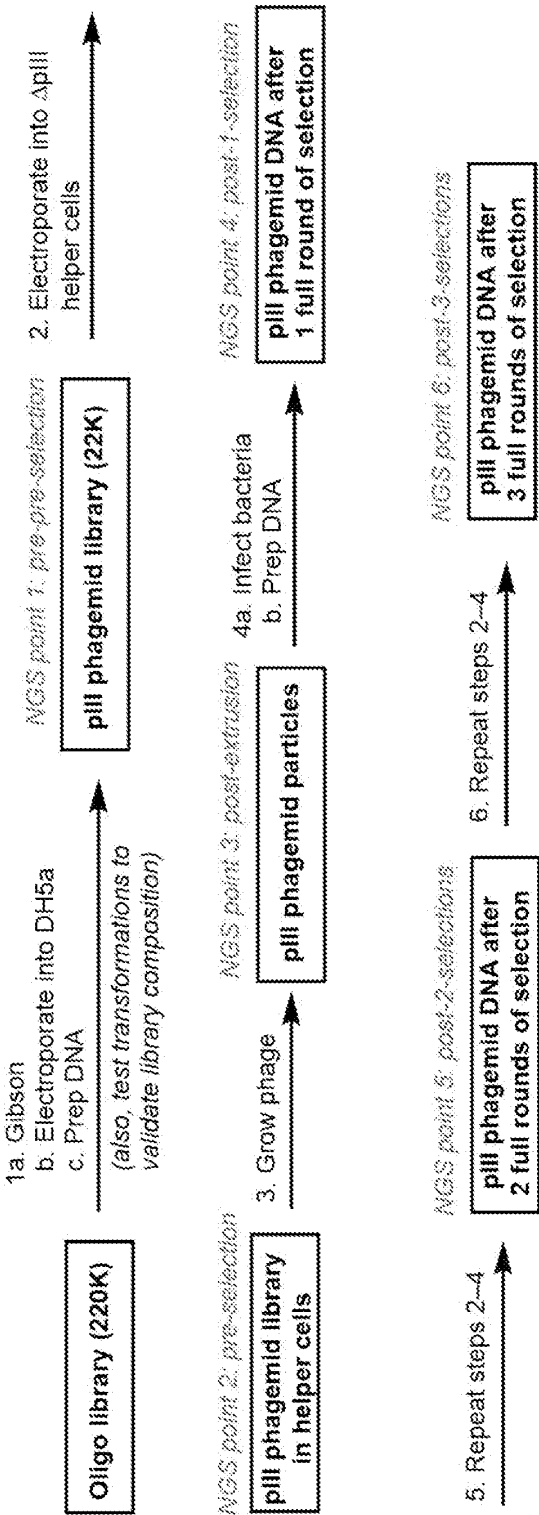


Figure 10

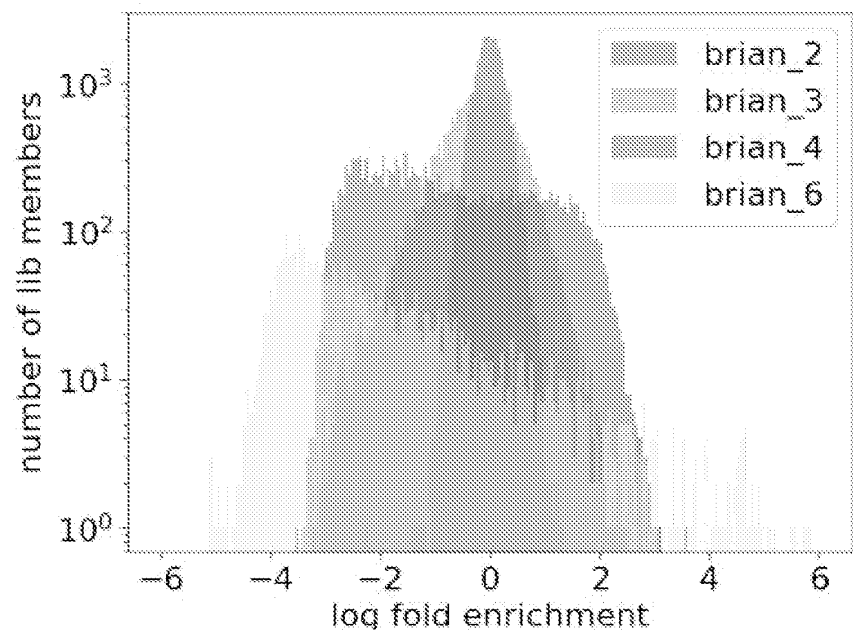


Figure 11

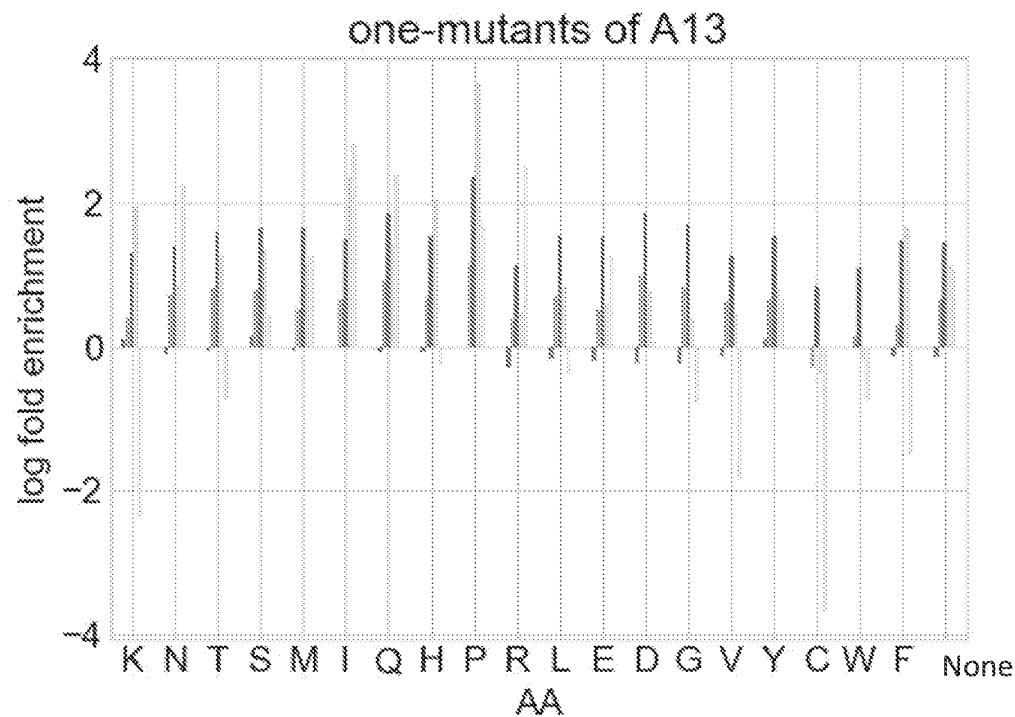


Figure 12

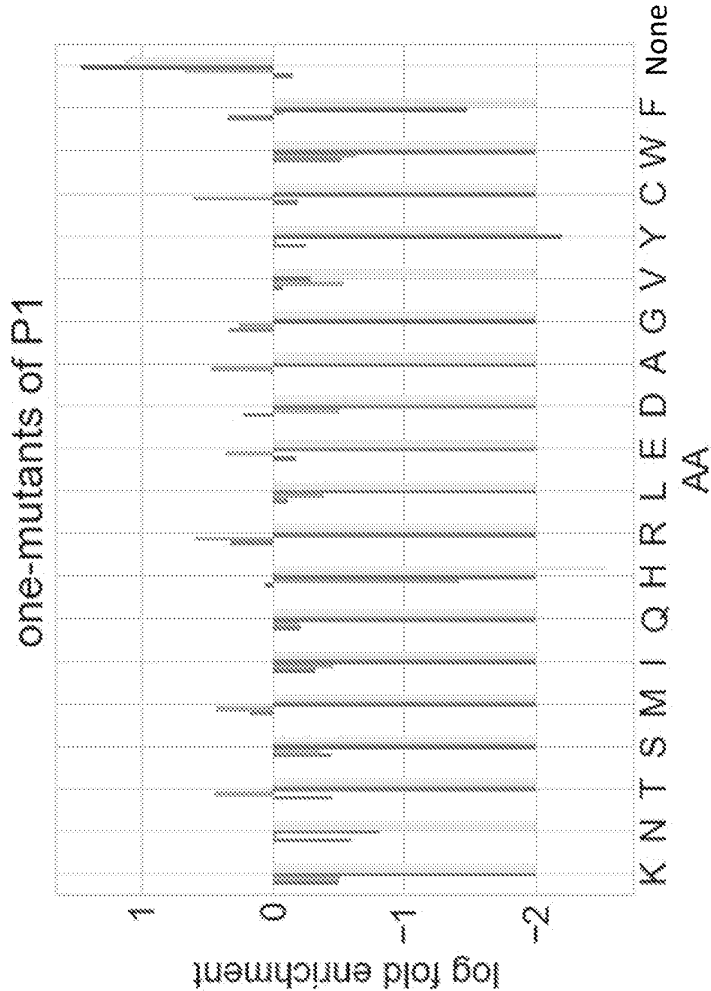


Figure 13

	Positio	Res	N	R	T
->	P111:367	P	0	0.11	0.89
	P111:368	Q	0.3	0.54	0.16
	P111:369	S	0.01	0.37	0.62
	P111:370	V	0	0.07	0.93
	P111:371	E	0.13	0.32	0.55
	P111:372	C	0.03	0.09	0.88
	P111:373	R	0.02	0.31	0.67
	P111:374	P	0.03	0.54	0.43
	P111:375	F	0.03	0.02	0.95
	P111:376	V	0	0.22	0.78
	P111:377	F	0.04	0.39	0.57
	P111:378	G	0.02	0.51	0.47
->	P111:379	A	0.23	0.61	0.16
	P111:380	G	0	0.17	0.83
	P111:381	K	0.8	0.13	0.07
	P111:382	P	0.76	0.21	0.03
	P111:383	Y	0.06	0.6	0.34
	P111:384	E	0.14	0.44	0.42
	P111:385	F	0	0.11	0.89

Figure 14

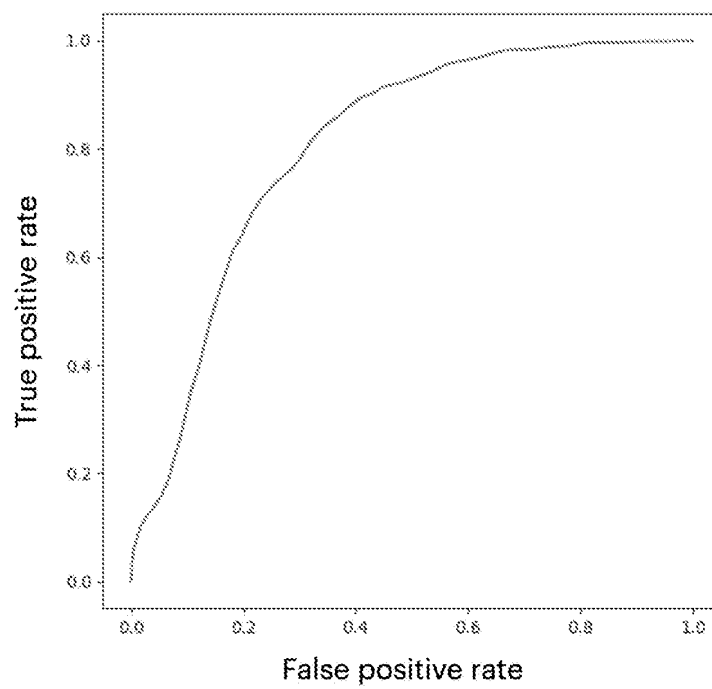


Figure 15

