

Method	Method	Precision	FDR	F1-score	
comparative genomics	IslandPick	31.25	68.75	37.04	
Sequence composition	HMM-based methods	IslandPath-DIMOB	30	70	28.57
		Sigi-HMM	0	100	0
		Alien Hunter	8.45	91.55	14.63
		Centroid	28.57	71.43	32
	Window-based methods	INDeGenIUS	30	70	28.57
		SigHunt	6.90	93.10	10
	<b>2SigFinder</b>	<b>60</b>	<b>40</b>	<b>57.14</b>	

Supp Table 3. Precision, false positive rate (FPR) and F1-score of the proposed method 2SigFinder, SIGI-HMM, Alien\_Hunter, Centroid, IslandPath-DIMOB, INDeGenIUS, SigHunt and IslandPick on detection of genomic islands in *P. aeruginosa* LESB58, and the precision, false positive rate and F1-score are calculated based on the number of the known GIs with greater than 50% covered by results of prediction methods.

