

Method	Predicted GI			Nucleotides in both RGIs and PGIs*	RGIs/PGIs** (>50%)
	Length	Number	Average length		
IslandPick	275178	16	17199	209001	5
IslandPath-DIMOB	95919	10	9592	59146	3
Sigi-HMM	110465	21	5260	83573	0
Alien Hunter	822570	71	11585	292823	6
Centroid	308000	14	22000	121503	4
INDeGenIUS	160000	10	16000	88473	3
SigHunt	292029	29	10070	78836	2
2SigFinder	571783	10	57178	277741	6

* Total number of the overlapping nucleotides in both known GIs and predicted GIs Data.

** Number of the known GI with greater than 50% covered by results of prediction methods.

Supp Table 2. Total length, average length and number of genomic islands predicted by 2SigFinder, SIGI-HMM, Alien_Hunter, Centroid, IslandPath-DIMOB, INDeGenIUS, SigHunt and IslandPick on detection of genomic islands in *P. aeruginosa* LESB58, and total number of the overlapping nucleotides in both known GIs and predicted GIs Data as well as the number of the known GI with at least 50% covered by results of prediction methods.