

Supplemental Table 3. *S. arenicola* mobile genetic elements (MGEs)

MGE	Gene start	Gene stop	No. genes	Island	MGE	Gene start	Gene stop	No. genes	Island
Tn3	346	346	1	2	Phage gene	3074	3074	1	15
Recombinase	612	612	1	4	Recombinase	3094	3094	1	15
Plasmid	925	958	34	5	IS4	3105	3105	1	15
IS21	1024	1025	2	6	IS4	3106	3106	1	15
ICE1	1208	1227	20	7	IS630	3107	3107	1	15
ICE2	1562	1580	19	9	IS21	3160	3161	2	16
IS21	1590	1591	2	9	Prophage 1A	3692	3743	52	17
Phage gene	1612	1613	2	9	Prophage 1B	3744	3794	51	17
IS701	1650	1650	1	10	IS5	4558	4558	1	20
IS256	1651	1651	1	10	IS630	4571	4571	1	20
ICE3	1922	1939	18	10	IS21	4925	4926	2	21
IS21	1968	1969	2	10	Recombinase	413	413	1	NI
IS5	1979	1979	1	10	Old Plasmid	1501	1502	2	NI
IS3	1991	1991	1	10	IS630	1649	1649	1	NI
IS5	1998	1998	1	10	Recombinase	1915	1915	1	NI
Recombinase	2051	2051	1	10	IS630	2285	2285	1	NI
Unknown MGE	2456	2477	22	12	Recombinase	2492	2492	1	NI
IS21	2854	2855	2	15	IS21	2580	2581	2	NI
Phage gene	2857	2857	1	15	IS630	3178	3178	1	NI
Plasmid gene	2979	2979	1	15	IS630	3576	3576	1	NI
IS110	2982	2982	1	15	IS	4038	4038	1	NI
IS5	3023	3023	1	15	ISL3	4192	4192	1	NI
IS4	3041	3041	1	15	Phage gene	4977	4977	1	NI
								Total	128

NI: non-island.