

**S38 Table:** Acceptor and donor candidates for ERR103402 run with yara, species filter and no samflag filter. Sampling sensitivity = 85. No taxon blacklist. No parent blacklist. No species blacklist. (-)0.000\* represents absolute values < 0.0004. The supposed acceptor is marked in bold.

Type	Candidate Name	Accession.Version	MicrobeGPS metrics			DaisyGPS metrics	
			Number Reads	Validity	Heterogeneity	Donor Score	Acceptor Score
Acceptor	Staphylococcus aureus subsp. aureus	NZ_CP007659.1	169032	0.804	0.05	0.754	0.04
<b>Acceptor</b>	<b>Staphylococcus aureus subsp. aureus HO 5096 0412</b>	<b>NC_017763.1</b>	<b>167480</b>	<b>0.806</b>	<b>0.052</b>	<b>0.754</b>	<b>0.039</b>
Donor	Staphylococcus warneri SG1	NC_020164.1	231	0.003	0.69	-0.697	-0.000*
Donor	Staphylococcus pseudintermedius ED99	NC_017568.1	1176	0.002	0.657	-0.655	-0.000*
Donor	Staphylococcus epidermidis RP62A	NC_002976.3	786	0.003	0.578	-0.575	-0.000*
Donor	Staphylococcus lugdunensis HKU09-01	NC_013893.1	676	0.001	0.357	-0.355	-0.000*
Donor	Staphylococcus haemolyticus JCSC1435	NC_007168.1	1123	0.003	0.351	-0.348	-0.000*
Donor	Staphylococcus aureus subsp. aureus str. JKD6008	NC_017341.1	18272	0.097	0.19	-0.103	-0.001
Acceptor-like Donor	Staphylococcus aureus subsp. aureus	NZ_CP009423.1	17888	0.096	0.085	0.011	0.000*