

Supplementary Table 5 Other bacteria harboring homologs of *C. novyi-NT* transposase

Organism name	Gene name	GenBank accession number	Amino acid identity shared with <i>C. novyi-NT</i> transposase	e-value
Burkholderia pseudomallei 1106b	ISBma2, transposase	gi 76578622 gb ABA48097.1	235/449 (52%)	2.00E-133
Burkholderia pseudomallei Pasteur	hypothetical protein BpseP_03005657	gi 100057141 ref ZP_01320602.1	234/449 (52%)	2.00E-133
Burkholderia pseudomallei 1106a	COG3666: Transposase and inactivated derivatives	gi 82531172 ref ZP_00890394.1	234/449 (52%)	2.00E-133
Burkholderia pseudomallei 406e	hypothetical protein Bpse4_03002651	gi 100233840 ref ZP_01334825.1	235/449 (52%)	3.00E-133
Burkholderia pseudomallei S13	hypothetical protein BpseS_03000794	gi 100125625 ref ZP_01330950.1	235/449 (52%)	3.00E-133
Burkholderia pseudomallei 668	COG3666: Transposase and inactivated derivatives	gi 67734363 ref ZP_00485543.1	234/449 (52%)	3.00E-133
Burkholderia mallei NCTC 10247	COG3666: Transposase and inactivated derivatives	gi 67649311 ref ZP_00447536.1	234/449 (52%)	3.00E-133
Burkholderia mallei 2002721280	hypothetical protein Bmal2_03000364	gi 100267723 ref ZP_01341923.1	234/449 (52%)	3.00E-133
Burkholderia mallei 10229	COG3666: Transposase and inactivated derivatives	gi 85064460 ref ZP_01025314.1	234/449 (52%)	3.00E-133
Burkholderia pseudomallei 1710b	ISBma2, transposase	gi 76578762 gb ABA48237.1	235/449 (52%)	3.00E-133
Burkholderia pseudomallei 1710a	hypothetical protein Bpse17_02002716	gi 90292576 ref ZP_01212186.1	235/449 (52%)	3.00E-133
Burkholderia pseudomallei K96243	putative transposase	gi 52210500 emb CAH36483.1	234/449 (52%)	3.00E-133
Burkholderia mallei ATCC 23344	ISBma2, transposase	gi 52429788 gb AAU50381.1	234/449 (52%)	4.00E-133
Burkholderia mallei GB8 horse 4	COG3666: Transposase and inactivated derivatives	gi 67643641 ref ZP_00442386.1	234/449 (52%)	4.00E-133
Burkholderia mallei 10399	hypothetical protein Bmal10_03000463	gi 100917923 ref ZP_01346399.1	234/449 (52%)	4.00E-133
Burkholderia mallei SAVP1	COG3666: Transposase and inactivated derivatives	gi 84524109 ref ZP_01011245.1	234/449 (52%)	4.00E-133
Burkholderia mallei JHU	COG3666: Transposase and inactivated derivatives	gi 83626755 ref ZP_00936979.1	234/449 (52%)	4.00E-133
Burkholderia mallei FMH	COG3666: Transposase and inactivated derivatives	gi 83621784 ref ZP_00932192.1	234/449 (52%)	4.00E-133
Burkholderia pseudomallei 1655	hypothetical protein Bpse1_03000756	gi 99913198 ref ZP_01319856.1	234/449 (52%)	5.00E-133
Burkholderia dolosa AUO158	COG3666: Transposase and inactivated derivatives	gi 84359278 ref ZP_00984026.1	233/432 (53%)	4.00E-130
Burkholderia xenovorans LB400	Putative transposase	gi 91781388 ref YP_556594.1	227/462 (49%)	3.00E-127
Symbiobacterium thermophilum IAM 14863	transposase	gi 51855596 dbj BAD39754.1	191/477 (40%)	7.00E-96
Thermoanaerobacter tengcongensis MB4	transposase	gi 20515501 gb AAM23791.1	203/447 (45%)	1.00E-91
Bacillus clausii KSM-K16	transposase	gi 56908260 dbj BAD62787.1	180/439 (41%)	3.00E-89
Enterococcus faecium DO	Transposase, IS4	gi 68195004 gb EAN09469.1	191/462 (41%)	2.00E-87
Streptococcus agalactiae A909	ISSag8, transposase	gi 76563598 gb ABA46182.1	177/467 (37%)	3.00E-76
Streptococcus agalactiae	transposase	gi 38154362 gb AAR12164.1	180/459 (39%)	6.00E-76
Streptococcus pyogenes MGAS10394	Transposase; Phage-associated cell wall hydrolase	gi 50903617 gb AAT87332.1	171/477 (35%)	4.00E-74
Streptococcus pyogenes MGAS2096	Transposase	gi 94992575 ref YP_600674.1	167/477 (35%)	8.00E-71
Streptococcus pyogenes	Transposase	gi 10566910 dbj BAB16031.1	158/415 (38%)	8.00E-69

The bacterial species harboring homologs of *C. novyi-NT* transposase were identified using BLASTP. Homologs were defined as those with > 30% amino acid identity over 80% of the CDS and e-value < e^{-20} .