

TableS2

Code	Strain	<i>lptA</i>	<i>lpxE/pgpB</i>	<i>lpxO/olsC</i>
bme	<i>Brucella melitensis</i> bv. 1 16M	✓ <i>BmelptA</i>	✓ ¹	X ²
bmi	<i>Brucella melitensis</i> ATCC 23457	✓	✓	na
bmz	<i>Brucella melitensis</i> M28	✓	✓	X
bmj	<i>Brucella melitensis</i> M5-90	✓	✓	X ³
bmw	<i>Brucella melitensis</i> NI	✓	✓	X ³
bmee	<i>Brucella melitensis</i> bv. 3 Ether	✓	✓	X ³
bmf	<i>Brucella abortus</i> 2308	X	✓ <i>BalpxE/pgpB</i>	na
bmb	<i>Brucella abortus</i> bv. 1 9-941	X	✓	na
bmc	<i>Brucella abortus</i> S19	X	✓	X ³
baa	<i>Brucella abortus</i> A13334	X	✓	X
babo	<i>Brucella abortus</i> bv. 2 86/8/59	X	✓	X ³
babr	<i>Brucella abortus</i> bv. 6 870	X	✓	X ³
babt	<i>Brucella abortus</i> 63 75	X	✓	X ³
babb	<i>Brucella abortus</i> BDW	X	✓	X ³
babu	<i>Brucella abortus</i> bv. 9 C68	X	✓	X ³
babs	<i>Brucella abortus</i> BER	X	✓	X ³
babc	<i>Brucella abortus</i> NCTC 10505	X	✓	X ³
bms	<i>Brucella suis</i> 1330	✓	✓	na
bsf	<i>Brucella suis</i> bv. 1	✓	✓	na
bsui	<i>Brucella suis</i> bv. 2 Bs143CITA	✓	✓	X
bsup	<i>Brucella suis</i> bv. 2 PT09143	✓	✓	X
bsuv	<i>Brucella suis</i> bv. 2 PT09172	✓	✓	X
bsuc	<i>Brucella suis</i> bv. 2 Bs364CITA	✓	✓	X
bmt	<i>Brucella suis</i> ATCC 23445	✓	✓	na
bsz	<i>Brucella suis</i> bv. 3	✓	✓	X ³
bsv	<i>Brucella suis</i> VBI22	✓	✓	X ³
bsw	<i>Brucella suis</i> ZW043	✓	✓	X ³
bsg	<i>Brucella suis</i> ZW046	✓	✓	X ³
bov	<i>Brucella ovis</i>	✓	✓	na
bcs	<i>Brucella canis</i> ATCC 23365	✓	✓	na
bsk	<i>Brucella canis</i> HSK A52141	✓	✓	X
bol	<i>Brucella canis</i> Oliveri	✓	✓	na
bcar	<i>Brucella canis</i> RM6/66	✓	✓	X ³
bcas	<i>Brucella canis</i> SVA13	✓	✓	X ³
bmr	<i>Brucella microti</i>	✓	✓	✓ <i>BmilpxO/OlsC</i>
bpp	<i>Brucella pinnipedialis</i> B2/94	✓	✓	na
bpv	<i>Brucella pinnipedialis</i> 6/566	✓	✓	X ³
bcet	<i>Brucella ceti</i> TE10759-12	✓	✓	X ³
bcee	<i>Brucella ceti</i> TE28753-12	✓	✓	X ³
bvl	<i>Brucella vulpis</i>	✓	✓	✓ ³
oan	<i>Ochrobactrum anthropi</i> ATCC 49188	✓ ⁴	✓ ⁵	✓ ^{3,6}

✓ Present

X Frameshift leading to a premature stop

1 Start annotated 60 pb downstream respect to *BalpxE/pgpB* start2 Start annotated 189 pb downstream respect to *BmilpxO/olsC* start3 Start annotated 105 pb downstream respect to *BmilpxO/olsC* start4 Identity to *BmelptA* of 0.775 Identity to *BalpxE/pgpB* of 0.736 Identity to *BmilpxO/olsC* of 0.95