

Query_name	Length	Single-copy	Function
brucella-chr1_1290	393	○	transposase
brucella-chr1_1291	369	○	transposase
brucella-chr1_1340	129	○	hypothetical protein, partial
brucella-chr1_1847	777	●	3-mercaptopyruvate sulfurtransferase
brucella-chr1_1918	369	○	transposase
brucella-chr1_1919	609	○	queuine tRNA-ribosyltransferase
brucella-chr1_1972	369	○	transposase
brucella-chr1_239	2232	●	gtp pyrophosphokinase rsh
brucella-chr1_277	1140	●	cytochrome c-type biogenesis protein
brucella-chr1_347	417	○	transposase orfb
brucella-chr1_705	393	○	transposase
brucella-chr1_706	369	○	transposase
brucella-chr1_995	4782	●	outer membrane autotransporter barrel domain-containing protein
brucella-chr2_1	255	○	protein
brucella-chr2_2	882	○	is3 family transposase orfb
brucella-chr2_256	393	○	protein
brucella-chr2_257	369	○	transposase
brucella-chr2_47	909	○	is3 family transposase orfb
brucella-chr2_524	363	○	transposase orfa

Query= brucella-chr1_239 # 247920 # 250151 # -1 #
ID=1_239;partial=00;start_type=ATG;rbs_motif=GGAG/GAGG;rbs Spacer=5-
10bp;gc_cont=0.577
(2232 letters)

	Score	E
	(bits)	Value
Sequences producing significant alignments:		
>gb CP006961.1	3157	0.0
>gb CP006961.1		
Length = 2107842		
Score = 3157 bits (2209), Expect = 0.0		
Identities = 2232/2253 (99%), Gaps = 21/2253 (0%)		
Strand = Plus / Plus		
Query: 1 atgatgcgccaatatatgagcttgtggaaacatgtacagcgataacaaggcctgatgtgaacgag 60		
Sbjct: 642046 atgatgcgccaatatatgagcttgtggaaacatgtacagcgataacaaggcctgatgtgaacgag 642105		
Query: 61 acgcttcttaacaaggcatatgtttatgccatgcagaaacacggcagtc----- 109		
Sbjct: 642106 acgcttcttaacaaggcatatgtttatgccatgcagaaacacggcagtcagaacgggct 642165		
Query: 110 -----cctatttctccatccgctggaaatggcgactattctcacagatatgcat 159		
Sbjct: 642166 tccggcgatccctatttctccatccgctggaaatggcgactattctcacagatatgcat 642225		
Query: 160 ttggacgaggcgacaatcgccatcgcgcttctgacgacacgatcgaggataaccacggcc 219		
Sbjct: 642226 ttggacgaggcgacaatcgccatcgcgcttctgacgacacgatcgaggataaccacggcc 642285		
Query: 220 acccgccaggaaatcgaccagctttcggggccggaaatcgcaagcttgtcgaggggctg 279		
Sbjct: 642286 acccgccaggaaatcgaccagctttcggggccggaaatcgcaagcttgtcgaggggctg 642345		
Query: 280 accaaagctcaagaaaactcgatctcggtttccaagaaggctgtccaggccaaaaacctgcgt 339		
Sbjct: 642346 accaaagctcaagaaaactcgatctcggtttccaagaaggctgtccaggccaaaaacctgcgt 642405		

The latter part of this record is omitted

Query= brucella-chr1_239

(2232 letters)

Database: BSS2_I0634.fa

1 sequences; 749 total letters

	Score	E
	(bits)	Value
Sequences producing significant alignments:		
BSS2_I0634	1461	0.0
>BSS2_I0634		
Length = 749		
Score = 1461 bits (3781), Expect = 0.0		
Identities = 742/749 (99%), Positives = 742/749 (99%), Gaps = 7/749 (0%)		
Frame = +1		
Query: 1 MMRQYELVERVQRYKPDVNEALLNKAYVYAMQKHGS-----PYFSHPLEVAAILTDMH	159	
MMRQYELVERVQRYKPDVNEALLNKAYVYAMQKHGS		PYFSHPLEVAAILTDMH
Sbjct: 1 MMRQYELVERVQRYKPDVNEALLNKAYVYAMQKHGSQKRASGDPYFSHPLEVAAILTDMH	60	
Query: 160 LDEATIAIAALLHDTIEDTTATRQEIDQLFGPEIGKLVEGLTKLKKLDLVSKKAVQAENLR	339	
LDEATIAIAALLHDTIEDTTATRQEIDQLFGPEIGKLVEGLTKLKKLDLVSKKAVQAENLR		
Sbjct: 61 LDEATIAIAALLHDTIEDTTATRQEIDQLFGPEIGKLVEGLTKLKKLDLVSKKAVQAENLR	120	
Query: 340 KLLLAISEDVRVLLVVKLADRLHNMRDLGVMCEDKRLRIAETMDIYAPLAGRMGMQDMRE	519	
KLLLAISEDVRVLLVVKLADRLHNMRDLGVMCEDKRLRIAETMDIYAPLAGRMGMQDMRE		
Sbjct: 121 KLLLAISEDVRVLLVVKLADRLHNMRDLGVMCEDKRLRIAETMDIYAPLAGRMGMQDMRE	180	
Query: 520 ELEELAFRYINPDAWRRAVTDRALAEELLEKNRGLLQKIETDLSEIFEKNGIKASVKSRSQKKP	699	
ELEELAFRYINPDAWRRAVTDRALAEELLEKNRGLLQKIETDLSEIFEKNGIKASVKSRSQKKP		
Sbjct: 181 ELEELAFRYINPDAWRRAVTDRALAEELLEKNRGLLQKIETDLSEIFEKNGIKASVKSRSQKKP	240	
Query: 700 WSVFRKMETKGLSFEQLSDIFGFRVMVDTVQDCYRALGLIHTTWSMVPGRFKDYISTPKQ	879	
WSVFRKMETKGLSFEQLSDIFGFRVMVDTVQDCYRALGLIHTTWSMVPGRFKDYISTPKQ		
Sbjct: 241 WSVFRKMETKGLSFEQLSDIFGFRVMVDTVQDCYRALGLIHTTWSMVPGRFKDYISTPKQ	300	
Query: 880 NDYRSIHTTIIGPSRQRIELQIRTREMDEIAEFGVAAHSIYKDRGSANNPHKISTETNAY	1059	
NDYRSIHTTIIGPSRQRIELQIRTREMDEIAEFGVAAHSIYKDRGSANNPHKISTETNAY		
Sbjct: 301 NDYRSIHTTIIGPSRQRIELQIRTREMDEIAEFGVAAHSIYKDRGSANNPHKISTETNAY	360	
Query: 1060 AWLRQTIEQLSEGDNPEEFLEHTKLELFQDQVFCFTPGRILALPRGATPIDFAYAVHTD	1239	
AWLRQTIEQLSEGDNPEEFLEHTKLELFQDQVFCFTPGRILALPRGATPIDFAYAVHTD		
Sbjct: 361 AWLRQTIEQLSEGDNPEEFLEHTKLELFQDQVFCFTPGRILALPRGATPIDFAYAVHTD	420	
Query: 1240 IGDSCVGAKVNGRIMPLMTELKNGDEVDIIRSQAQVPPAAWESLVATGKARAAIRRATRS	1419	
IGDSCVGAKVNGRIMPLMTELKNGDEVDIIRSQAQVPPAAWESLVATGKARAAIRRATRS		
Sbjct: 421 IGDSCVGAKVNGRIMPLMTELKNGDEVDIIRSQAQVPPAAWESLVATGKARAAIRRATRS	480	

The latter part of this record is omitted

Query= brucella-chr1_1847 # 1965361 # 1966137 # -1 #
ID=1_1847;partial=00;start_type=ATG;rbs_motif=GGAGG;rbs_spacer=5-
10bp;gc_cont=0.574
(777 letters)

	Score	E
	(bits)	Value
gb CP006961.1	1100	0.0
gb CP006962.1	31	1.0

Sequences producing significant alignments:

>gb|CP006961.1|
Length = 2107842

Score = 1100 bits (769), Expect = 0.0
Identities = 775/779 (99%), Gaps = 2/779 (0%)
Strand = Plus / Plus

The first part of this record is omitted

Query: 481 atgcgcgaagatcggttatgaaaaacgcctcgcaaggattgccatgcgcataggcggccat 540
Sbjct: 1024952 atgcgcgaagatcggttatgaaaaacgcctcgcaaggattgccatgcgcataggcggccat 1025011

Query: 541 tttacggggcgccgacgcggAACCTCGCGGAAatgcgcctcgccatatgccggatgcg 600
Sbjct: 1025012 tttacggggcgccgacgcggAACCTCGCGGAAatgcgcctcgccatatgccggatgcg 1025071

Query: 601 cgcaatgttccctgttacaaccctttccggaaACGGTGAATTGAAAGACCTCGAAAGCCTG 660
Sbjct: 1025072 cgcaatgttccctgttacaaccctttccggaaACGGTGAATTGAAAGACCTCGAAAGCCTG 1025131

Query: 661 cgcaggatTTTGACGAGGCCGGTATCGACCTGTCCGGGGCGGTGAATTGACCGTTGC 720
Sbjct: 1025132 cgcaggatTTTGACGAGGCCGGTATCGACCTGTCCGGGGCGGTGAATTGACCGTTGC 1025191

Query: 721 ttccgggtttaccgcgtgccgtgattacgcgttcgcgttacctcg--ggggcaaaaggataa 777
Sbjct: 1025192 tccgggtttaccgcgtgccgtgattacgcgttcgcgttacctcgctggggcacaaggataa 1025250

Query= brucella-chr1_277 # 295318 # 296457 # -1 #
ID=1_277;partial=00;start_type=ATG;rbs_motif=None;rbs_spacer=None;gc_content=0.619

(1140 letters)

	Score	E
	(bits)	Value
gb CP006961.1	1625	0.0
gb CP006962.1	35	0.079
>gb CP006961.1		
Length = 2107842		
Score = 1625 bits (1136), Expect = 0.0		
Identities = 1138/1140 (99%)		
Strand = Plus / Plus		

The first part of this record is omitted

Query: 781	ccttggcacggccagcttggaaaaaccattgccatccttcgtatcccgcgacgcggccaaa	840
Sbjct: 596520	ccttggcacggccagcttggaaaaaccattgccatccttcgtatcccgcgacgcggccaaa	596579
Query: 841	caggcgaggcgaaaagggtccgagcgccgaagatgtcgaaaggcttccacgctcagcgcc	900
Sbjct: 596580	caggcgaggcgaaaagggtccgagcgccgaagatgtcgaaaggcttccacgctcagcgcc	596639
Query: 901	agagatcgccaggcgatggggaaaggcatggttcaacgcctcgatgaaacacttcggccag	960
Sbjct: 596640	agagatcgccaggcgatggggaaaggcatggttcaacgcctcgatgaaacacttcggccag	596699
Query: 961	aatggcgggatatcgatggctggaaaggcatggccgttttatatgatcctaaccgc	1020
Sbjct: 596700	aatggcgggatatcgatggctggaaaggcatggccgtttatatgatcctaaccgc	596759
Query: 1021	cgcaacgatcgccaggatgcactggctggccatgaaggctttcagggtgaaaaccgg	1080
Sbjct: 596760	cgcaacgatcgccaggatgcactggctggccatgaaggctttcagggtgaaaaccgg	596819
Query: 1081	accgaacttcaaaggcttcggccaccacacttggactggacgtggggactgcacaagaatga	1140
Sbjct: 596820	accgaacttcaaaggcttcggccaccacacttggactggacgtggggactgcacaagaatga	596879

Query= brucella-chr1_995 # 1054415 # 1059196 # -1 #
ID=1_995;partial=00;start_type=ATG;rbs_motif=GGAG/GAGG;rbs_spacer=5-
10bp;gc_cont=0.522
(4782 letters)

	Score	E
	(bits)	Value
Sequences producing significant alignments:		
gb CP006961.1	6823	0.0
gb CP006962.1	242	2e-63
>gb CP006961.1		
Length = 2107842		
Score = 6823 bits (4776), Expect = 0.0		
Identities = 4780/4782 (99%), Gaps = 2/4782 (0%)		
Strand = Plus / Plus		

The first part of this record is omitted

Query: 3001	aaagctgatcttcatgatttaaacacgtcagtcggggggggggcttattggggcaggt	3060
Sbjct: 1938311	aaagctgatcttcatgatttaaacacgtcagtc--ggggggggggacttattggggcaggt	1938368
Query: 3061	gatgtAACGCTCGGCAGCGGAACATTGACTGTCAATCAAGGCTTCACAGTATTTTCC	3120
Sbjct: 1938369	gatgtAACGCTCGGCAGCGGAACATTGACTGTCAATCAAGGCTTCACAGTATTTTCC	1938428
Query: 3121	ggcgtcatatctggagacaaaaaaaaaagcgccacggggcgtttaactttca	3180
Sbjct: 1938429	ggcgtcatatctggagacaaaaaaaaaagcgccacggggcgtttaactttca	1938488
Query: 3181	ggcccaataacttatggcgccacgaccattgtatgggggggtactccttcaaggtag	3240
Sbjct: 1938489	ggcccaataacttatggcgccacgaccattgtatgggggggtactccttcaaggtag	1938548
Query: 3241	agcgagcttcagcagtatgtccgcctatcgAACCGGCCAAGCGGAACCGTGGATTAA	3300
Sbjct: 1938549	agcgagcttcagcagtatgtccgcctatcgAACCGGCCAAGCGGAACCGTGGATTAA	1938608

The latter part of this record is omitted