

Table 5. Genes predicted to encode virulence-associated functions

<i>Brucella suis</i> ORF	Putative function
ADHESION, OMP* BRA0173, BRA1148, BR2013 BR0971, BR0118, BR0119 BR1689, BRA0921 BR0072 BRA0423, BR1622 BR0701	Adhesin with autotransporter domain, similar to <i>Salmonella typhimurium</i> ShdA Adhesin, similar to <i>Bartonella henselae</i> surface proteins Putative surface exposed protein, signal peptide Putative outer membrane protein OMP31 OMP25
INVASION, TRAFFICKING BR1836, BR0340 BR0437, BR0068, BR0337, BR1792	Invasin, similar to <i>Bartonella clarridgeiae</i> invasion protein Hemolysins Proline racemase, similarity to <i>Trypanosoma cruzi</i> protein with B-cell mitogenic properties
DETOXIFICATION BR1837 BR0566 BRA0707, BRA0708 BR0267-BR0273 BR1356-BR1361	Carboxy-terminal protease, <i>Bartonella bacilliformis</i> homologue implicated in stress protection Fe-Mn Superoxide dismutase Alkyl hydroperoxide reductase Urease, similar to <i>Mesorhizobium loti</i> , <i>Agrobacterium tumefaciens</i> Urease, similar to <i>Yersinia</i> spp., <i>Heliobacter pylori</i>
OTHERS BR1654 BR0364, BR2174 BRA1125 BR1441	Ferric uptake regulator Iron response regulator, heme biosynthesis, iron uptake Transcriptional regulator, Fur family Mn ²⁺ /Fe ²⁺ transporter, NRAMP family

*OMP, outer membrane protein.