

Primer	Sequence (5'-3')
<i>hfq_wt_1b</i>	GCAAATATCGGAAAGCGTCAGGC
<i>hfq_wt_2</i>	ATCGCGAGCTGGCTGCTGATCG
<i>hfq_3x_FLAG_1</i>	GTCATCGTCATCCTTGATGTCG
b	
<i>hfq-Up-FLAG-For</i>	GCGGATCCGGCATCAATGGTGATGACTGG
<i>hfq-Up-FLAG-Rev</i>	ATCTTTATAATCACCGTCATGGTCTTTGTAGTCGGCTTCCTCGCCTTCAAACATC
<i>hfq-Dn-FLAG-For</i>	CATGACATCGACTACAAGGATGACGATGACAAGTGACGCTTCCGATATTTGCCG
<i>hfq-Dn-FLAG-Rev</i>	GCCTGCAGGGTCGGATCGAGCGTGCGAA
BSnc115_F	CTGGCTGTTGAGGCTTATGGG
BSnc115_R	TTTCCCGCTCTGCGCTGGCC
BSnc118_F	AACCGTTGGTTTCACGCGGTG
BSnc118_R	AAGCAAGGCTTTCGCCCTGCC
BSnc140_F	GCACCAGACCTTGGGCGTGG
BSnc140_R	GTCCGGCTCTCATTCCCTGC
BSnc118-North	TCCATCCTCCCAAGACTTCACCGCGTGA
BSnc119-North	TAGGTGACTGGCTCGGAGGTCAATAG
BSnc120-North	TTTTTAGCGCGTCGTTCCCTCG
BSnc121-North	CTCGATGCCCATTCATATGGCTCTGCC
BSnc135-North	GTCAAACAGAGTGGCTAAACCACTCGGTAA
BSnc149-North	TTCACGAGTTAAAATGGATGGGCAA
BSnc150-North	CTTTGGCCGGCGCTTATGTGGT
BSnc159-North	CCGAGACAGGACTTCCAACGTGC

Table S1. Primers used in this study

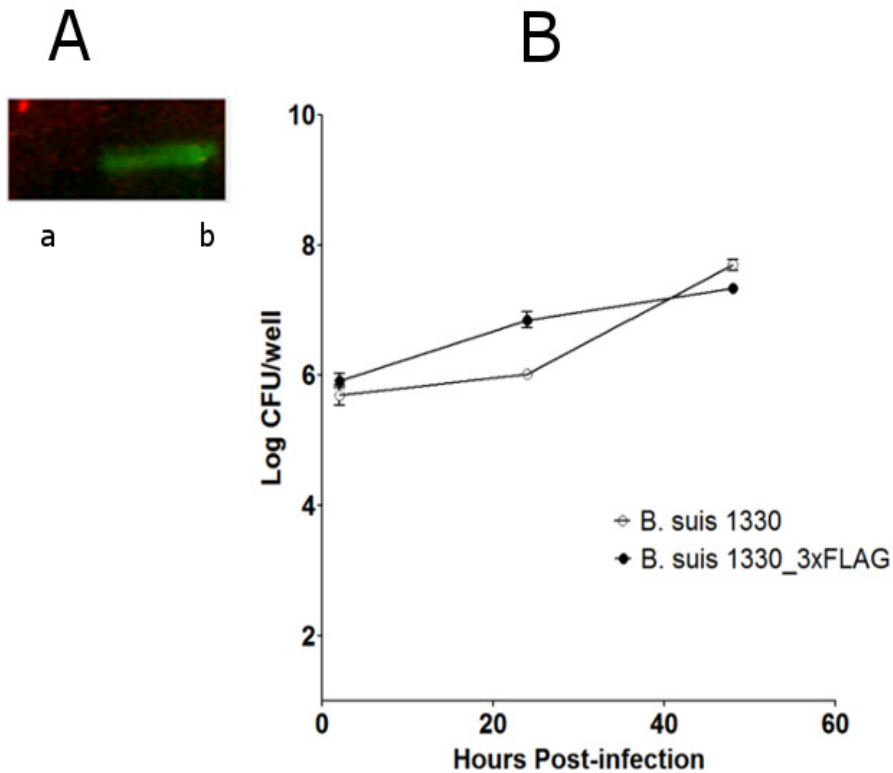
Genes (EC>4)	name	Chromosome	Annotation	ID
BR0122		I	hypothetical protein	NP_697163.1
BR0278	<i>dhT</i>	I	phenylhydantoinase	NP_697312.1
BR0279		I	allantoate amidohydrolase	NP_697313.1
BR0283		I	oxidoreductase	NP_697317.1
BR0389		I	hypothetical protein	NP_697420.1
BR0410		I	hypothetical protein	NP_697441.1
BR0440		I	hypothetical protein	NP_697468.1
BR0642		I	hypothetical protein	NP_697656.1
BR0662		I	hypothetical protein	NP_697676.1
BR0856		I	hypothetical protein	NP_697870.1
BR0941		I	hypothetical protein	NP_697952.1
BR1037		I	hypothetical protein	NP_698043.1
BR1155		I	hypothetical protein	NP_698160.1
BR1170	<i>clpS</i>	I	ATP-dependent Clp protease adaptor protein ClpS	NP_698175.1
BR1354		I	hypothetical protein	NP_698353.1
BR1386		I	hypothetical protein	NP_698384.1
BR1443		I	transglycosylase SLT domain- containing protein	NP_698441.1
BR1457		I	hypothetical protein	NP_698453.1
BR1496		I	hypothetical protein	NP_698492.1
BR1498		I	LysR family transcriptional regulator	NP_698494.1
BR1765		I	hypothetical protein	NP_698749.1
BR1819		I	hypothetical protein	NP_698799.1
BR1850	<i>rplU</i>	I	50S ribosomal protein L21	NP_698830.1
BR1854		I	hypothetical protein	NP_698834.1
BR1865		I	hypothetical protein	NP_698845.1
BR2019		I	hypothetical protein	NP_698994.1
BRA0010		II	Bmp family lipoprotein	NP_699217.1
BRA0047		II	hypothetical protein	NP_699254.1
BRA0062		II	type IV secretion system protein VirB8	NP_699269.1
BRA0130		II	hypothetical protein	NP_699333.1
BRA0174	<i>cycA</i>	II	cytochrome c2	NP_699376.1
BRA0276	<i>nosD</i>	II	copper ABC transporter periplasmic copper-binding protein	NP_699472.1
BRA0287		II	hypothetical protein	NP_699482.1
BRA0304		II	sugar ABC transporter periplasmic sugar-binding protein	NP_699499.1
BRA0326		II	Spermidine/putrescine ABC	NP_699521.1

			transporter	periplasmic	
			spermidine/putrescine-binding		
			protein		
BRA0330		II	hypothetical protein		NP_699525.1
BRA0340		II	glutaminase		NP_699533.1
BRA0415		II	LuxR family transcriptional		NP_699606.1
			regulator		
BRA0458		II	hypothetical protein		NP_699647.1
BRA0498		II	hypothetical protein		NP_699685.1
BRA0515		II	hypothetical protein		NP_699702.1
BRA0546		II	hypothetical protein		NP_699733.1
BRA0570		II	ABC transporter ATP-binding		NP_699754.1
			protein		
BRA0603		II	hypothetical protein		NP_699787.1
BRA0631		II	amino acid ABC transporter		NP_699815.1
			substrate-binding protein		
BRA0641	<i>pobA</i>	II	4-hydroxybenzoate	3-	NP_699825.1
			monooxygenase		
BRA0731		II	hypothetical protein		NP_699908.1
BRA0741		II	hypothetical protein		NP_699918.1
BRA0746		II	short	chain	NP_699923.1
			dehydrogenase/reductase		
			oxidoreductase		
BRA0747		II	hypothetical protein		NP_699924.1
BRA0807		II	ABC transporter permease		NP_699980.1
BRA0939	<i>dgoK</i>	II	2-dehydro-3-		NP_700106.1
			deoxygalactonokinase		
BRA1018		II	hypothetical protein		NP_700181.1
BRA1020		II	hypothetical protein		NP_700183.1
BRA1021		II	50S ribosomal protein L34		NP_700184.1
BRA1081		II	peptide ABC transporter		NP_700243.1
			permease		
BRA1090		II	peptide ABC transporter		NP_700250.1
			substrate-binding protein		
BRA1096		II	transcriptional regulator		NP_700255.1
BRA1097		II	oligopeptide ABC transporter		NP_700256.1
			periplasmic oligopeptide-		
			binding		
			protein		
BRA1112		II	hypothetical protein		NP_700268.1
BRA1164		II	hypothetical protein		NP_700317.1
BRA1173		II	branched-chain amino acid ABC		NP_700326.1
			transporter periplasmic amino		
			acid-binding protein		

Genes (EF>3,but <4)	name	Chromosome	Annotation	ID
BR0988		I	hypothetical protein	NP_697996.1
BR0942		I	heavy metal-binding domain- containing protein	NP_697953.1
BR0136		I	hypothetical protein	NP_697175.1
BR0521		I	perosamine synthase	NP_697543.1
BR1669		I	hypothetical protein	NP_698655.1
BR1973		I	6-pyruvoyl tetrahydrobiopterin synthase	NP_698948.1
BR1866		I	hypothetical protein	NP_698846.1
BR1898	<i>tesB</i>	I	acyl-CoA thioesterase	NP_698876.1
BR0514		I	transposase, interruption-C	YP_089630.1
BR1858		I	hypothetical protein	NP_698838.1
BR0499		I	glyoxalase	NP_697527.1
BR0230	<i>soxD</i>	I	sarcosine oxidase subunit delta	NP_697264.1
BR1505		I	hypothetical protein	NP_698501.1
BR0742		I	hypothetical protein	NP_697756.1
BR0164		I	hypothetical protein	NP_697202.1
BR1486		I	hypothetical protein	NP_698482.1
BR1617		I	hypothetical protein	NP_698607.1
BR0820		I	hypothetical protein	NP_697834.1
BR1635		I	hypothetical protein	NP_698623.1
BR0798		I	hypothetical protein	NP_697812.1
BR0595		I	hypothetical protein	NP_697611.1
BR1379		I	hypothetical protein	NP_698377.1
BR1312		I	hypothetical protein	NP_698315.1
BRA0344		II	diguanylate phosphodiesterase	NP_699537.1
BRA0652		II	branched-chain amino acid ABC transporter ATP-binding protein	NP_699836.1
BRA0414		II	Crp/Fnr family transcriptional regulator	NP_699605.1
BRA1029		II	hypothetical protein	NP_700192.1
BRA0461		II	hypothetical protein	NP_699650.1
BRA0981		II	2-deoxy-D-gluconate 3- dehydrogenase	NP_700146.1
BRA0331		II	hypothetical protein	NP_699526.1
BRA0662		II	hypothetical protein	NP_699846.1
BRA1093		II	peptide ABC transporter permease	NP_700253.1
BRA0214		II	hypothetical protein	NP_699413.1
BRA0821		II	hypothetical protein	NP_699991.1
BRA0075		II	SPFH domain-containing protein/band 7 family protein	NP_699282.1

BRA0818		II	camphor resistance protein CrcB	NP_699988.1
BRA0925		II	transcriptional regulator	NP_700092.1
BRA0250		II	CbbQ/NirQ/NorQ/GpvN family protein	NP_699447.1
BRA0561		II	hypothetical protein	NP_699745.1
BRA0993	<i>RbsC-4</i>	II	ribose ABC transporter permease	NP_700157.1
BRA0169		II	hypothetical protein	NP_699371.1
BRA0403		II	Gfo/Idh/MocA family oxidoreductase	NP_699595.1
BRA1032		II	hypothetical protein	NP_700195.1
BRA0480		II	MarR family transcriptional regulator	NP_699667.1
BRA0859	<i>RbsC-3</i>	II	ribose ABC transporter permease	NP_700027.1
BRA0241		II	hypothetical protein	NP_699438.1
BRA1177		II	hypothetical protein	NP_700330.1

Table S2. Hfq enriched mRNA identified in this study



Supplemental Figure S1 Expression of 3xFLAG-Hfq in *B. suis* 1330.

(A) Western blot with anti-FLAG antibody showing *B. suis* 1330 wild type strain (left) and FLAG-tagged strain (right).

(B) Expressing 3xFLAG-Hfq does not affect *Brucella* virulence. Intracellular survival and multiplication of *B. suis* 1330 wild type and FLAG-tagged strains at 2, 24 and 48h post-infection in J774 macrophages infected with a MOI of 50.