

#	Primer	<sup>a</sup> Sequence	Source
<b>Cloning primers</b>			
1	<i>ΩrdfG_Up_5'_SacI</i>	ATCAG <b>GAGCTC</b> AAGCAGCGTGACAAGCGGC	This study
2	<i>ΩrdfG_Up_3'_XhoI</i>	ATCAG <b>CTCGAG</b> GTCAAATGGGATCGAGGATGACGG	This study
3	<i>ΩrdfG_Dn_5'_XbaI</i>	ATCAG <b>TCTAG</b> AAATCCGTCGCGCCTCAATGT	This study
4	<i>ΩrdfG_Dn_3'_NotI</i>	ATCAG <b>GCGGCC</b> CGCTTGCCCCGGCTGGGCCTT	This study
5	<i>ΩrdfM_Up_5'_SacI</i>	ATCAG <b>GAGCTC</b> CCACGCAAGCGCAGCG	This study
6	<i>ΩrdfM_Up_3'_XhoI</i>	ATCAG <b>CTCGAG</b> ACGCTTGTTGCGTATACGCTGTAGAC	This study
7	<i>ΩrdfM_Dn_5'_XbaI</i>	ATCAG <b>TCTAG</b> AGGACGCTGCCTCGGTCTCT	This study
8	<i>ΩrdfM_Dn_3'_NotI</i>	ATCAG <b>GCGGCC</b> CGGTACCTGTCAACGATCGGCAAG	This study
9	<i>ΔrdfS_Up_5'_gib</i>	<b>ACTAAAGGGAACAAAAGCTGGAGCTCGGCATCGTACCCCGGTGC</b>	This study
10	<i>ΔrdfS_Up_3'_gib</i>	<b>TGGGTGTGGTTCTCCTTTTTGGCGCGGGCGG</b>	This study
11	<i>ΔrdfS_Dn_5'_gib</i>	<b>CGCGCCAAAAAGG</b> AGAACCACACCCATTCCAACGATG	This study
12	<i>ΔrdfS_Dn_3'_gib</i>	<b>TTGGGTACCGGGCCCCCCTCGAGG</b> TAGCGCTCGGGTCCGGCG	This study
13	<i>rdfG_5'_HindIII</i>	ATCAG <b>AAGCTT</b> GTTGCGCGTCCGCTCAATC	This study
14	<i>rdfG_3'_XbaI</i>	ATCAG <b>TCTAG</b> ATCATCCTCGATCCCATTTGACG	This study
15	<i>rdfM_5'_HindIII</i>	ATCAG <b>AAGCTT</b> AGCAAGCCTATTCTGGTGCCG	This study
16	<i>rdfM_3'_XbaI</i>	ATCAG <b>TCTAG</b> ATTATCGTTTTTCAACGTCCCGTTTGCT	This study
17	<i>rdfS_5'_HindIII</i>	ATCAG <b>AAGCTT</b> GCCGAGGAGCGGCGAAA	This study
18	<i>rdfS_3'_XbaI</i>	ATCAG <b>TCTAG</b> ATCATGAGCGGCCTCCATCGT	This study
19	<i>rdfG_5'_BamHI</i>	ATGAC <b>GGATCC</b> ACATTGAGGCGCGACGGATT	This study
20	<i>rdfG_3'_KpnI</i>	ATGAC <b>GGTACCT</b> CATCCTCGATCCCATTTGACG	This study
21	<i>traI1_5'_KpnI</i>	ATCTAG <b>GTACC</b> <u>GGAGGCGACGA</u> ATGATGCAGCTAATCACACCTGAGC	This study
22	<i>traI1_3'_KpnI</i>	ATCTAG <b>GTACC</b> TTAAGCGTATGCCGGCAGGC	This study
23	<i>rdfM_5'_SacI</i>	ATCAG <b>GAGCTC</b> <u>GGAGGCGACGA</u> ATGAAGAGTGACGCAATCTCGTATGCC	This study
24	<i>traR_5'_PstI</i>	ATCTA <b>CTGCA</b> <u>GGAGGCGACGA</u> ATGCATCGCGTGTGGAAAATTTCC	This study
25	<i>traR_3'_XbaI</i>	ATCTA <b>TCTAG</b> ATCAGGATCTCGAATGTCCGGAA	This study
26	<i>msi172_5'_gib</i>	<b>TAACAATTTACACATAGCTAACTG</b> <u>GGAGGCGACGA</u> ATGCCTGCAGTTCTCGTG	This study
27	<i>msi171_3'_gib</i>	<b>CTTTAGATGCCGCTTCTTTTGCAG</b> ATCAAAGAAGGAAATCCCTGTACCC	This study
28	<i>PrdfG_5'_XhoI</i>	ATGAC <b>CTCGAG</b> TGCTCGTGAGCAAGACCTAGGCTT	This study
29	<i>PrdfG_3'_XhoI</i>	ATGAC <b>CTCGA</b> AATCCGTCGCGCCTCAATGT	This study
30	<i>PrdfM_5'_XhoI</i>	ATGAC <b>CTCGAG</b> TGGGTCGTTGATCGCCAGC	This study
31	<i>PrdfM_3'_XhoI</i>	ATGAC <b>CTCGA</b> GGACGCTGCCTCGGTCTCT	This study
32	<i>PrdfS_5'_XhoI</i>	ATGAC <b>CTCGA</b> TCCGGCCGACCCGAG	This study
33	<i>PrdfS_3'_XhoI</i>	ATGAC <b>CTCGA</b> GATGATCCTCGTTTGGCTTGCG	This study
34	<i>aadA1_5'_Blunt</i>	<b>ATGCATGTCGAC</b> GGAGCTGCATGTGTGACAGGT	This study
35	<i>aadA1_3'_Blunt</i>	<b>GAGCTCGGTACC</b> GAGGCCCTTTTCGTTCAAGA	This study
36	<i>traR2_5'_SpeI</i>	ATCAG <b>ACTAGT</b> <u>GGAGGCGACGA</u> ATGACGAGGGACATGCCACTTGT	This study
37	<i>traR2_3'_XbaI</i>	ATCAG <b>TCTAG</b> ATCAGAGGATCGAGCTCCCTTGG	This study
38	<i>PtraI1_5'_BglII</i>	ATCTA <b>AGATCT</b> CGACATTCGAGATCCTGATTCCTT	This study
39	<i>PtraI1_3'_XhoI</i>	ATCTA <b>CTCGA</b> TTGTGCGCTCCGTGCAGG	This study
<b><sup>b</sup>QPCR primers</b>			
40	1271attB(G)F	GCATCAACCGCGTCGTCTA	[19]

#	Primer	<sup>a</sup> Sequence	Source
41	1271attB(G)R	GAAGTCTCCGGCAGCGAAA	[19]
42	1271attB(M)F	GCTCCAGGTGTGCGTTTCT	[19]
43	1271attB(M)R	TGGGTTGATTTGGGCGATCT	[19]
44	1271attB(S)F	TGTCTTTGGGCTTAGCGTTCT	[19]
45	1271attB(S)R	ACAGGCCCAGATAGCTCAGTT	[19]
46	ICE <i>McSym</i> 1271(G)F	CAGTCTGCAGCAACGATGAC	[19]
47	ICE <i>McSym</i> 1271(G)R	CAGTGTGTTGAAATTCCGGTTGA	[19]
48	ICE <i>McSym</i> 1271(M)F	GACCGTGGTCTTTGCTTTGG	[19]
49	ICE <i>McSym</i> 1271(M)R	TCTCCGAACGTCCGCAA	[19]
50	ICE <i>McSym</i> 1271(S)F	GGAACCGAACCAATCCACAGA	[19]
51	ICE <i>McSym</i> 1271(S)R	TGCCGAAACAGAAGCGTAGA	[19]
52	1271 <i>melR</i> F	CTGATGTCACCAAGTGTGCG	[19]
53	1271 <i>melR</i> R	CGCCAGGTCGAGGTTAATT	[19]

<sup>a</sup> Text in bold demarks a restriction site (detailed in the primer name), or overlapping region for Gibson cloning. Underlined text demarks an artificially introduced RBS.

<sup>b</sup> QPCR primer targets sites are as follows; *attB<sub>G</sub>* 44 & 45; *attB<sub>M</sub>* 46 & 47; *attB<sub>S</sub>* 48 & 49; *attP<sub>G</sub>* 50 & 51; *attP<sub>M</sub>* 52 & 53; *attP<sub>S</sub>* 54 & 55; *melR* 56 & 57.