

Table S1: Oligonucleotides

Primer	Sequence 5' to 3'	Description of use
CDEP3533	aaaactgctgccttcggatcgggaaaaatctcatccagt	sigVrsiV pDG1664 For
CDEP3534	aactttagggttatcgaattttatgatggatgtttttatctgaa	sigVrsiV pDG1664 Rev
CDEP3194	gtgagcggataacaattaagcctaaggaggctttcttaatggataagagattacagca	RsiV pDR For
CDEP3865	aacaattaagcctaaggaggctttcttaatggataagagattacagc	RsiV pDR For
CDEP3195	ccgaattagcttgcctgctatctttatcgaataaacgttctcc	RsiV pDR Rev
CDEP3868	ccaccgaattagcttgcctgctggtacctttgtagagctcat	GFP Outside Rev
CDEP3165	cggagctcgaattcggatccatctttatcgaataaacgttctccc	N term 6xHis pET21 For
CDEP3267	ttaagaaggagatatacatatgcaccatcaccatcaccatattggataagagattacagc	RsiV pET21 Rev
CDEP3629	gtgagcggataacaattaagcctaaggaggctttcttaatgcaccatcaccatcaccat	6xHis RsiV pDR For
<i>rsiV</i> 1-66-GFP For	ccggacgccgctcaggctatgagcaaaaggagaagaact	pLL197
<i>rsiV</i> 1-76-GFP For	cctgtcatcggcaaatcatgagcaaaaggagaagaact	pLL194
<i>rsiV</i> 1-86-GFP For	acctttattgaaatcaaatgagcaaaaggagaagaact	pLL195
<i>rsiV</i> 1-96-GFP For	caatcaagcattgatgtcatgagcaaaaggagaagaact	pLL196
<i>rsiV</i> 1-66-GFP Rev	agttcttctctttgctcatagcctgagcggcgctccgg	pLL197
<i>rsiV</i> 1-76-GFP Rev	agttcttctctttgctcatgattttgccgatgacagg	pLL194
<i>rsiV</i> 1-86-GFP Rev	agttcttctctttgctcattttgatttcaataaaggt	pLL195
<i>rsiV</i> 1-96-GFP Rev	agttcttctctttgctcatgacatcaatgcttgattg	pLL196
<i>rsiV</i> Δ67-76 For	ccggacgccgctcaggctgtcaaaagcgtacaccttt	pLL208, pLL212
<i>rsiV</i> Δ67-86 For	ccggacgccgctcaggctgagcaaaagaccaatca	pLL209, pLL213
<i>rsiV</i> Δ67-76 Rev	aaaggtgatcgtttgacagcctgagcggcgctccgg	pLL208, pLL212
<i>rsiV</i> Δ67-86 Rev	tgattggtcttttctcagcctgagcggcgctccgg	pLL209, pLL213
I73K For	atgtcaaaagatccctgtcaaggggcaaaatcgtcaaaagc	pLL201
I76K For	atccctgtcatcggcaaaaaggtcaaaagcgtacaccttt	pLL140
I80K For	ggcaaaatcgtcaaaagcgaagacctttattgaaatcaaa	pLL141
M67K For	ccggacgccgctcaggctaaagcgaagatccctgtcatc	pLL198
I73K Rev	cgctttgacgattttgcacctgacagggatctttgacat	pLL201
I76K Rev	aaaggtgatcgtttgacctttttgccgatgacagggat	pLL140
I80K Rev	tttgattcaataaaggtcttcgctttgacgattttgcc	pLL141
M67K Rev	gatgacagggatctttgacttagcctgagcggcgctccgg	pLL198
A66W For	atcaaccggagcgc gct cag tgg atgtcaaaagatccct	pLL158
Q65C A66W For	aatatcaaccggagcgcgcttgc gct atgtcaaaagatccc	pLL159
A66W M67C For	ccggacgccgctcagtggtgttcaaaagatccctgtcatc	pLL185
A66W K69C For	gctcagtgatgtcatgtatccctgtcatcggcaaa	pLL202
A66W I70C For	gctcagtgatgtcaaaagtcctgtcatcggcaaaatc	pLL182
A66W V72C For	tggatgtcaaaagatccctgtatcggcaaaatcgtcaaa	pLL203
I73C For	atgtcaaaagatccctgtctgcgcaaaatcgtcaaaagc	pLL165, pLL205
I76C For	atccctgtcatcggcaaatcgtcaaaagcgtacaccttt	pLL167, pLL153
K78C For	gtcatcggcaaaatcgtctgtgcgtacacctttattgaa	pLL179, pLL206
I80C For	ggcaaaatcgtcaaaagcgtgtacctttattgaaatcaaa	pLL193, pLL207
F82C For	atcgtcaaaagcgtacacctgtattgaaatcaaaagagaa	pLL184, pLL220
E84C For	aaagcgtacacctttattgtcatcaaaagaggaaaaagac	pLL168, pLL155
A167C For	ccggcgcaatattgaacaacacaatgctcttctacacacaaagccg	pLL169
A66W Rev	agggatctttgacatccactgagcggcgctccgggttgat	pLL158
Q65C A66W Rev	gggatctttgacatagcgaagcggcgctccgggttgatatt	pLL159
A66W M67C Rev	gatgacagggatctttgaacacctgagcggcgctccgg	pLL185
A66W K69C Rev	tttgccgatgacagggatacatgatccactgagc	pLL202
A66W I70C Rev	gattttgccgatgacagggacacctttgacatccactgagc	pLL182

A66W V72C Rev	tttgacgattttgccgatacaagggatctttgacatcca	pLL203
I73C Rev	cgctttgacgattttgccgcagacagggatctttgacat	pLL165, pLL205
I76C Rev	aaaggtgatcgccttgacgcatttccgatgacagggat	pLL167, pLL153
K78C Rev	ttcaataaaggtgatcgcacagacgattttgccgatgac	pLL179, pLL206
I80C Rev	tttgattcaataaaggtacacgctttgacgattttgcc	pLL193, pLL207
F82C Rev	ttcctcttgatttcaatacaggtgatcgcctttgacgat	pLL184, pLL220
E84C Rev	gtcttttctctttgatgcaataaaggtgatcgccttt	pLL168, pLL155
A167C Rev	cggctttgtgttaggaagagcattgtgttttcaatattgcgccgg	pLL169
I76C I80K For	ggcaaatgcgtcaaagcgaagaccttattgaaatcaaaa	pLL223
I76C I80K Rev	tttgattcaataaaggtcttcgctttgacgcattttgcc	pLL223
Q65C For	aatatcaaccggagccgcttgc gct atgtcaagatccc	pLL215
M67C For	ccggagcccgtcaggcttgttcaagatccctgtcatc	pLL216
K69C For	gccgctcaggctatgtcatgtatccctgtcatcgcaaaa	pLL217
I70C For	gctcaggctatgtcaaagtgcctgtcatcgcaaaaatc	pLL218
V72C For	gctatgtcaagatcccttgtatcgcaaaaatcgtaaaa	pLL219
Q65C Rev	gggatctttgacatagcgcaagcggcgtccgggtgatatt	pLL215
M67C Rev	gatgacagggatctttgaacaagcctgagcggcgtccgg	pLL216
K69C Rev	tttgccgatgacagggatacatgacatagcctgagcggc	pLL217
I70C Rev	gattttgccgatgacaggacattttgacatagcctgagc	pLL218
V72C Rev	tttgacgattttgccgatacaagggatctttgacatagc	pLL219