

Table S1. Primers used in this study.

Primers	Sequence (5'→3')
Gene knockout	
NK- <i>lacZ</i> -F	GTCGTGACTGGGAAAACCCTGGCGTTACCCA ACTTAATCGCATATCAATATCCTCCTTAG
NK- <i>lacZ</i> -R	CAACTGGTAATGGTAGCGACCGGCGCTCAGCT GGAATTCCGTGTAGGCTGGAGCTGCTTC
NK- <i>rseA</i> -F	CTTTAATGGATGGCGAAACGCTGGATAGTGA GCTGCTTATAGGAATATCCTCCTTAGTTC
NK- <i>rseA</i> -R	TGCTGAGTTTGTGCCTGCTCAAACCTGAAGCTG TTCAGATGTGTAGGCTGGAGCTGCTTCG
NK- <i>degS</i> -F	ACGACGCCGATCAGATCATCGTCGCCTTACA GGATGGAATAGGAATATCCTCCTTAGTTC
NK- <i>degS</i> -R	ATGGTGACCTGCAATGTAACTGTTTATCGTC ACGCATTGTGTAGGCTGGAGCTGCTTCG
NK- <i>rcsB</i> -F	AACCTGTATCACACCCGATG
NK- <i>rcsB</i> -R	CAGATCAGTTGGGATCGTTG
NK- <i>ompR</i> -F	GAACGTTATCTCACCGAACAAGGCTTCCAGG TTCGAAGCGTCGCTATAGGAATATCCTCC
NK- <i>ompR</i> -R	CGGATGCGCCGGATCTTCTTCCACCATGCGGC GCAGACGCGAAATTGTGTAGGCTGGAGC
NK- <i>qseB</i> -F	CTTTGCGGATCTGTTTGACG
NK- <i>qseB</i> -R	TACGCCAGTCGCGTTTAGTG
NK- <i>cpxR</i> -F	AAGGAGCTGCTCGAGATGGAAGGCTTCAACG TGATTGTTGCCACATAGGAATATCCTCC
NK- <i>cpxR</i> -R	ATCGATAGCGCGGTCGAAAGGCGTCAGGCGC TTGCCCAGCACTTCTGTGTAGGCTGGAGC
NK- <i>fliC</i> -F	CAGTCTGCGCTGTCGAGTTCTATCGAGCGTCT GTCTTCTGGCTTGATAGGAATATCCTCC
NK- <i>fliC</i> -R	CTGGATAATCTGCGCTTTCGACATGTTGGACA CTTCGGTCGCATATGTGTAGGCTGGAGC
NK- <i>spr</i> -F	TTGTCGTTAAGGACTTCAAGGGAAAACAAAC AACATGGTCCATATGAATATCCTCCTTAG
NK- <i>spr</i> -R	GAGAACCCGGCGTGCTTCGTTGTAACGCTTCT TCCAGTATGTGTAGGCTGGAGCTGCTTC
Spr-3xFlag	
Spr-3xFLAG-F	GAAGCGTTACAACGAAGCACGCCGGGTTCTC AGCCGCAGCGACTACAAAGACCATGACG

3xFLAG-M13F-New-P2-R	CGGAATAGGAACTAAGGAGGATATTCCTATGT AAAACGACGGCCAGTGAATTG
New-P2	ATAGGAATATCCTCCTTAGTTC
Spr-3xFLAG-R	CTCGTCAGGATAGCCAAGGGATTGCATCCAAA CGGTTTATGTGTAGGCTGGAGCTGCTTC
Complementary <i>degS</i> gene at the <i>lacZ</i> gene chromosomal locus	
FD-lacZ-F	CCGGAAGAGAGTCAATTCAG
LacI-500 R	CATATGATAAGCATCGCTGCTCATACCAAAGCC GTTGATGGGTGTCTGGTCAG
lacZ-degQ-F	CTTGATGTCTCTGACCAGACACCCATCAACCT GAAGCCAGCAACGATCAG
degS-New-P2-R	CGGAATAGGAACTAAGGAGGATATTCCTATTTA GTTGGTCGCCGGATATTC
New-P2	ATAGGAATATCCTCCTTAGTTC
141-30-2	AGACCAACTGGTAATGGTAG
Complementary <i>rcsB</i> gene at the <i>lacZ</i> gene chromosomal locus	
FD-lacZ-F	CCGGAAGAGAGTCAATTCAG
LacI-500 R	CATATGATAAGCATCGCTGCTCATACCAAAGCC GTTGATGGGTGTCTGGTCAG
lacZ-rcsB-F	CTTGATGTCTCTGACCAGACACCCATCAACTT GGTACACGCTACTCTGTG
rcsB-New-P2-R	CGGAATAGGAACTAAGGAGGATATTCCTATTTA GTCTTTATCTGCCGGAC
New-P2	ATAGGAATATCCTCCTTAGTTC
141-30-2	AGACCAACTGGTAATGGTAG
<i>degP-lacZ</i>	
check-no lacI-F	GCTGTGCAACACAATACTGC
no lacI-UP500-R	TGACGCCGAAGTGAGATTTAAAATGCTGAC
no lacIp-Cm-F	GACCTGGCGTCAGCATTTTAAATCTCACTTCG GCGTCATGTGTAGGCTGGAGCTGCTTCG
NEW-P2	ATAGGAATATCCTCCTTAGTTC
Cm-degPp-F	CGGAATAGGAACTAAGGAGGATATTCCTATT AGCCATCCAGATGTCGAGCAGCTTG
Cm-degPp-R	TCCTGTGTGAAATTGTTATTCGCTCACAATCTC AGAGCCAGTGCACTCAGTGCTAATGTG
lacZ-500-F	ATTGTGAGCGAATAACAATTTACACAG
lacZ-500-R	ACCACAGATGAAACGCCGAG
qPCR or RT-PCR	

ftsZ-RT-F	CAATGGAAC TTACCAATGAC
ftsZ-RT-R	TGTTTTACGCAGCGCTTGTG
flhD-RT-F	TCCGCTATGTTTCGTCTCGGCATA
flhD-RT-R	ACCAGTTGATTGGTTTCTGCCAGC
fliA-RT-F	AACGCTATGACGCCCTACAAGGAA
fliA-RT-R	AGTTCCTGCTCCAGTTGCCCTATT
flgE-RT-F	CACGTTTAGCCTGAGCTTCC
flgE-RT-R	CAACCGTACCGTCATCATTG
flhA-RT-F	ACGAGAAACCGACCCATGAG
flhA-RT-R	CCATCATCGACAAGATCAAC
fliF-RT-F	AATGCGACTGCAGCCCAGAC
fliF-RT-R	AGGATCAGTGCGACCATGAC
fliM-RT-F	GATAACGACATGGGCGATAG
fliM-RT-R	CACTTTCGCCGCTAACACTG
fliE-RT-F	GTTATCAGCCAGTTACAGGC
fliE-RT-R	TGTGTATCGCTTATGCGATC
fliT-RT-F	ATTTCGCCTGGCAACAAC TC
fliT-RT-R	TGCACCGCATT CACATACGC
flgM-RT-F	GAGTATTGATCGCACTTCGC
flgM-RT-R	ACGTCACACTGGTGCTGGTG
fliC-RT-F	ACAGCCTCTCGCTGATCACTCAA
fliC-RT-R	GCGCTGTTAATACGCAAGCCAGA
motA-RT-F	GCGATTAAAGGCACGCTGAAGG
motA-RT-R	GAAGGTGTT CATGTGACCGCTG
tar-RT-F	TTAACCTGAGTCGTT CAGCG
tar-RT-R	TTTCAGGTAACGGTGCCATG
yiiS-RT-F	CGACAGAGAGGCGAATATACAGAGGTGCCC
yiiS-RT-R	CTCGGCCTGGCATGAGAAAGTGAAGGCCGC
hpf-RT-F	ATAACGTCGAGATCACCGAG
hpf-RT-R	ATGTTTGGTCAACTGGCGTG
fkpA-RT-F	CACTTTTGCTGCTGAAGCTG
fkpA-RT-R	GTCTGTTCGATCTCTTGGTC
yjbE-RT-F	TTTGCCATATCTGCGCTTG
yjbE-RT-R	TGGTGGTCCCGGTATTAGAA
osmC-RT-F	CCATAAGAAAGGTCAGGCAC
osmC-RT-R	TGCGCCAATCAGTTCTTCAG
aroG-RT-F	TGGGCTGGAAAGGGCTGATT
aroG-RT-R	GAGAAACTCACCCGCCGCTG

mviM-RT-F	TGACTGGACGTTACAAGGTG
mviM-RT-R	AGTAACGTACTGACCACGTC
qseB-RT-F	CCTTATGATGCGGTGATCCTGG
qseB-RT-R	TCCCAGACGCAGCCCTTCTA
ompC-RT-F	TCCTGGTCCCAGCTCTGCTG
ompC-RT-R	CCAAGACGCATGTAGGTCTG
Plasmid pPrc-S430A	
prcS430A-F	GTCCCGGGCGTGCCCTGGTTGTGGGTG
prcS430A-R	GCTACGTAATCCTGCATTGCCGCGGCAAAGA TTTCTGAAGCGGCAGCACTGAAGCGGTCA
Plasmid pPrc-K455A	
prcK455A-F	CACCCGGGCGTGCCCTGGTTGTGGGTGAACC GACATTTGGTGCCGGCACCGTTCAGCAGT
prcK455A-R	CGTACGTAATCCTGCATTGCCGCGGC
Plasmid pDegQ	
pACYC184-CmP-degQ-F	TCGAGATTTTCAGGAGCTAAGGAAGCTAAAT TGAATCTCTTTTCTTATCATTACAGGTACG
degQ-NotI-R	ATATGCGGCCGCTTAACGCATTAGTAGGTAG AG
Cm-promoter-F	TTTAGCTTCCTTAGCTCCTG
Cm-out-R	AGTCGCGGCCGCATACGCAAGGCGACAAGGT G
Plasmid pFlhDC	
pUC19-HA tag-flhD-HindIII-F	CGCCAAGCTTGTATCCATATGATGTTCCAGAT TATGCTGTGGGAATAATGCATACCTC
pUC19-flhC-his tag-BamHI-R	CCGGGGATCCTTAATGATGATGATGATGATG AACAGCCTGTACTCTCTGTTC
Plasmid pBAD-FlhDC	
pBAD-HA-flhDC-NcoI-F	TTAACCATGGATTATCCATATGATGTTCCAGA TTATGCTGTGGGAATAATGCATACCTC
pUC19-flhC-his tag-BamHI-R	CCGGGGATCCTTAATGATGATGATGATGATG AACAGCCTGTACTCTCTGTTC
Plasmid pRcsB	
pBAD-RcsB-NcoI-F	TTAACCATGGCAGTTATGTCAAGAGC
pBAD-RcsB-EcoRI-R	CTTCGAATTCTTAGTCTTTATCTGCCGGAC
Plasmid pRseA	
pBAD-HA-rseA-NcoI-F	TTAACCATGGATTATCCATATGATGTTCCAGA TTATGCTATGCAGAAAGAACAACCTTC

pBAD-rseA-his tag-HindIII-R	ATATAAGCTTTTAGTGATGGTGATGGTGATGC TGCGATTGCGTTCCTAAAG
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Plasmid pSpr

pBAD-NcoI-spr-F	TTAACCATGGTCAAATCTCAACCG
Spr-Flag-BamHI-R	CTTCGGATCCGAATTCACCTTGTCGTCATCGTC TTTGTAGTCGCTGCGGCTGAGAACCCG
