

Supplementary Information

Fig S1. Alignment of predicted amino acid sequences of the Orf35 protein of pCTX-M3 and YggA of the R64 plasmid

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Orf35 1  PAKTKAIVSSEISGKTI  S1  DDLPQVWSELEKKTHT  DLKCSLTKKND  SKGYEDKELIKI  NDAGFS-DV-  TLRD  IKD  TAGRVGK  RRFESH  RKKITGVDE  PCRTQNS  STCG  PDASGPQY  121
YggA  1  PASG  --  FVDD  DITQLA  AAL  SLEPL  LAAC  KTLRDF  FIA  IRD  DL  IV  VR  KGT  TLAD  V  RDT  K  NAGY  EVG  EKAL  R  L  R  --  TR  E  A  S  S  --  K  P  S  R  F  S  S  K  T  A  S  K  K  T  S  A  R  K  K  D  I  D  I  N  N  -----  111
  
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■ identical aa
 ■ similar aa

Table S1. pCTX-M3 plasmids with deletions of individual genes in the *tra* and *trb* regions and their respective complementing plasmids

Gene	pCTX-M3 derivative	Complementing plasmid	Construction details
<i>excA</i>	pCTX-M3 <i>excA</i> :: <i>cat</i>	pM <i>TexA</i>	pMT5 with PCR-amplified <i>excA</i> cloned into <i>EcoRI-SmaI</i> sites
<i>nikA</i>	pCTX-M3 <i>nikA</i> :: <i>cat</i>	pM <i>TnikA</i>	pMT5 with PCR amplified <i>nikA</i> cloned into <i>EcoRI-SmaI</i> sites
<i>nikB</i>	pCTX-M3 <i>nikB</i> :: <i>cat</i> pCTX-M3Δ <i>nikB</i>	pM <i>TnikB</i>	pMT5 with PCR amplified <i>nikB</i> cloned into <i>SacI-SmaI</i> sites
<i>orf35</i>	pCTX-M3 <i>orf35</i> :: <i>cat</i>	pA <i>Lorf35</i>	pAL3 with PCR amplified <i>orf35</i> cloned into <i>EcoRI-SmaI</i> sites
<i>orf36</i>	pCTX-M3 <i>orf36</i> :: <i>cat</i>	pA <i>Lorf36</i>	pAL3 with PCR amplified <i>orf36</i> cloned into <i>EcoRI-SmaI</i> sites
<i>orf38</i>	pCTX-M3 <i>orf38</i> :: <i>cat</i>	pM <i>Torf38</i>	pMT5 with PCR amplified <i>orf38</i> cloned into <i>EcoRI-SmaI</i> sites
<i>orf46</i>	pCTX-M3 <i>orf46</i> :: <i>cat</i>	none	
<i>pri</i>	pCTX-M3 <i>pri</i> :: <i>cat</i> pCTX-M3Δ <i>pri</i>	pA <i>Lpri</i>	pAL3 with <i>pri</i> from pHS11 (<i>KpnI-HincII</i>) cloned into <i>KpnI</i> -blunted <i>PstI</i> sites
<i>traH</i>	pCTX-M3 <i>traH</i> :: <i>cat</i>	pM <i>TtraH</i>	pMT5 with PCR amplified <i>traH</i> cloned into <i>EcoRI-SmaI</i> sites
<i>traI</i>	pCTX-M3 <i>traI</i> :: <i>cat</i>	pM <i>TtraI</i>	pMT5 with PCR amplified <i>traI</i> cloned into <i>EcoRI-SmaI</i> sites
<i>traJ</i>	pCTX-M3 <i>traJ</i> :: <i>cat</i>	pM <i>TtraJ</i>	pMT5 with PCR amplified <i>traJ</i> cloned into <i>EcoRI-SmaI</i> sites
<i>traK</i>	pCTX-M3 <i>traK</i> :: <i>cat</i>	pM <i>TtraK</i>	pMT5 with PCR amplified <i>traK</i> cloned into <i>EcoRI-SmaI</i> sites
<i>traL</i>	pCTX-M3 <i>traL</i> :: <i>cat</i>	pM <i>TtraL</i>	pMT5 with PCR amplified <i>traL</i> cloned into <i>EcoRI-SmaI</i> sites
<i>traM</i>	pCTX-M3 <i>traM</i> :: <i>cat</i>	pM <i>TtraM</i>	pMT5 with PCR amplified <i>traM</i> cloned into <i>EcoRI-SmaI</i> sites
<i>traN</i>	pCTX-M3 <i>traN</i> :: <i>cat</i>	pM <i>TtraN</i>	pMT5 with PCR amplified <i>traN</i> cloned into <i>EcoRI-SmaI</i> sites
<i>traO</i>	pCTX-M3 <i>traO</i> :: <i>cat</i>	pM <i>TtraO</i>	pMT5 with PCR amplified <i>traO</i> cloned into <i>SacI-SmaI</i> sites
<i>traP</i>	pCTX-M3 <i>traP</i> :: <i>cat</i>	pM <i>TtraP</i>	pMT5 with PCR amplified <i>traP</i> cloned into <i>EcoRI-SmaI</i> sites
<i>traQ</i>	pCTX-M3 <i>traQ</i> :: <i>cat</i>	pM <i>TtraQ</i>	pMT5 with PCR amplified <i>traQ</i> cloned into <i>SacI-SmaI</i> sites
<i>traR</i>	pCTX-M3 <i>traR</i> :: <i>cat</i>	pM <i>TtraR</i>	pMT5 with PCR amplified <i>traR</i> cloned into <i>EcoRI-SmaI</i> sites
<i>traU</i>	pCTX-M3 <i>traU</i> :: <i>cat</i> pCTX-M3Δ <i>traU</i>	pA <i>LtraU</i>	pAL3 with PCR amplified <i>traU</i> cloned into <i>SacI-SmaI</i> sites
<i>traW</i>	pCTX-M3 <i>traW</i> :: <i>cat</i>	pA <i>LtraW</i>	pAL3 with PCR amplified <i>traW</i> cloned into <i>SmaI</i> site
<i>traX</i>	pCTX-M3 <i>traX</i> :: <i>cat</i>	pA <i>LtraX</i>	pAL3 with PCR amplified <i>traX</i> cloned into <i>EcoRI-PstI</i> sites
<i>traY</i>	pCTX-M3 <i>traY</i> :: <i>cat</i> pCTX-M3Δ <i>traY</i>	pA <i>LtraY</i>	pAL3 with PCR amplified <i>traY</i> cloned into <i>EcoRI-SmaI</i> sites
<i>trbA</i>	pCTX-M3 <i>trbA</i> :: <i>cat</i>	pA <i>LtrbA</i>	pAL3 with PCR amplified <i>trbA</i> cloned into <i>EcoRI-SmaI</i> sites
<i>trbB</i>	pCTX-M3 <i>trbB</i> :: <i>cat</i>	pM <i>TtrbB</i>	pMT5 with PCR amplified <i>trbB</i> cloned into <i>EcoRI-SmaI</i> sites
<i>trbC</i>	pCTX-M3 <i>trbC</i> :: <i>cat</i>	pA <i>LtrbC</i>	pAL3 with PCR amplified <i>trbC</i> cloned into <i>EcoRI-SmaI</i> sites
<i>trbN</i>	pCTX-M3 <i>trbN</i> :: <i>cat</i>	pM <i>TtrbN</i>	pMT5 with PCR amplified <i>trbN</i> cloned into <i>EcoRI-SmaI</i> sites

Table S2. Primers used for generation of *cat* integration cassettes into genes from *tra* and *trb* regions of pCTX-M3

Gene	Primer	Sequence 5'-3'
<i>excA</i>	excAupP1	AGATAAGAGCAAGGACGGCATCAAAGGAGCTAAAT GTGTAGGCTGGAGCTGCTTCG
	excAdnP2	CATATTCGGCGGGTTAAACTCAATAATTGCTGTTACATATGAATATCCTCCTTA
<i>nikA</i>	nikAupP1	CAAGCCCCGACCCCCCTAACGAGGTTAGCTATCTGGTGTAGGCTGGAGCTGCTTCG
	nikAdnP2	CTTTTTGTCCCTTCGGCCCTCAATGATTTTAGGTATCATATGAATATCCTCCTTA
<i>nikB</i>	nikBupP1	CAGAACTGCAACAGGAGATGGATGGTGATACCTAAGTGTAGGCTGGAGCTGCTTCG
	nikBdnP2	AACGTTTGCAATTTGATTTTCATTTCTACTCCATTTATATGAATATCCTCCTTA
<i>orf35</i>	orf35uP1	ATGGCATGGTCGATTTTGACATTATTGGGAGGGCAT GTGTAGGCTGGAGCTGCTTCG
	orf35dP2	ATAATGTGGGATGCGATATGCGAAAGGTGAAGGTTAATATATGAATATCCTCCTTA
<i>orf36</i>	orf36uP1	ATGCAAACAGTGATGCATTCCCGTTCATTTGTAACGTGTAGGCTGGAGCTGCTTCG
	orf36dP2	GAACAATGAGGTATACATGAGCGAACATAATGATTATATGAATATCCTCCTTA
<i>orf38</i>	orf37uP1	GGCCCCGCTTGGCGGGCCAAATCGGAGTTCCTCGTGTAGGCTGGAGCTGCTTCG
	orf37dP2	ATCACATCCTCAAAGAAAGAAATCATTTAAAACCTCTATATGAATATCCTCCTTA
<i>orf46</i>	orf46uP1	GGCGTTTGCCGGCGTTGTTAATCAGGAGGCCAAACGGTGTAGGCTGGAGCTGCTTCG
	orf46dP2	GGGGGACCACTCCCCGCTTTTAACACAAACCTTCATATATGAATATCCTCCTTA
<i>pri</i>	priUpP1	TCTCAGCGATAACACATAACTACAGGGGTAGACAGTGTGTAGGCTGGAGCTGCTTCG
	priDnP2	AGTCTTTGCGACTGGTGCATGAGTCTGTCTCTCCTTATATGAATATCCTCCTTA
<i>traH</i>	traHupP1	ACGACAAATTC AATCCGAAGTAAATGGAGTAAGAAGTGTAGGCTGGAGCTGCTTCG
	traHdnP2	CGGTAACGTCAGAAAGCAGCATCAGTTTAAAGTTTCATCATATGAATATCCTCCTTA
<i>traI</i>	traIupP1	AAGAAAGGTTCAATCCTCAGAGGGACCCGCCATGAGTGTAGGCTGGAGCTGCTTCG
	traIdnP2	TTGGACCAAAATGAATGCTTCCATCTACTGCCCTTATATGAATATCCTCCTTA
<i>traJ</i>	traJupP1	GCAGCTGAAACCCGACCATACGTTAAGGGCAGTAGGCTGTAGGCTGGAGCTGCTTCG
	traJdnP2	GCATAACGCCATTTGTTAATGTCCATACTTGCCTCTATATGAATATCCTCCTTA
<i>traK</i>	traKupP1	TATCTGGCGTTAAAAGAGGGCAAGTATGGACATTAAGTGTAGGCTGGAGCTGCTTCG
	traKdnP2	AGGTTTCGCCATACTGTCTACCCCTGTAGTTATGTGTATATGAATATCCTCCTTA
<i>traL</i>	traLupP1	ATGCACCAGTCGAAAGTCAGCGCCTCGGCCATAAAAGTGTAGGCTGGAGCTGCTTCG
	traLdnP2	CTGTTTGCATCCTCACCCTCCACTCGCAGCTGCCTATATGAATATCCTCCTTA
<i>traM</i>	traMupP1	TTATGTTGCTCATGTATACCTCATTGTTTCATTAACGTGTAGGCTGGAGCTGCTTCG
	traMdnP2	AGTACAGTTAACAGTTTAACTTTCATGATTGACCTCTATATGAATATCCTCCTTA
<i>traN</i>	traNupP1	GGCCATTCTCAAACCCCGAACTACTGAGGTCAATCGTGTAGGCTGGAGCTGCTTCG
	traNdnP2	TTCTTTACCTTTATCTGTAGCCAGCGTCTCCCTTATATGAATATCCTCCTTA
<i>traO</i>	traOupP1	TGACGTTGAAGTTGAGCTGAATTAAGGGGAACGACGGTGTAGGCTGGAGCTGCTTCG
	traOdnP2	ATTGTCATCTTCAAACAGATTCAATATCAATCTCCTTATATGAATATCCTCCTTA
<i>traP</i>	traPupP1	CACCAATAACCCGTAATACCGTTAAGGAGATTGATAGTGTAGGCTGGAGCTGCTTCG
	traPdnP2	ATTCTAAATCCATAGTTTCGCCTTTTAGGCTCTGTTATATGAATATCCTCCTTA
<i>traQ</i>	traQupP1	CCTTATCCGCTAAACAGGACCTAAAAAGGGCAAACTGTGTAGGCTGGAGCTGCTTCG
	traQdnP2	ATAAGCTTAAACAATTTTCAATAAAGTATCTTTTTGATATATGAATATCCTCCTTA
<i>traR</i>	traRupP1	CATTAACATTCACTGTAAATCAAAAAGGATACTTTGTGTAGGCTGGAGCTGCTTCG
	traRdnP2	ATACCACTAACGATTTTGCACCGTTCGCGCAGCTCATATGAATATCCTCCTTA
<i>traU</i>	traUupP1	TGAAATTTACAAGGGTAAGAGAGGTTTTAAATGATTGTGTAGGCTGGAGCTGCTTCG
	traUdnP2	TTTTGCTTTCCGATTTTATCATCTGAATCCCCTTATATGAATATCCTCCTTA
<i>traW</i>	traWupP1	AATCATTTCTGATGTGAGAAGGGGATTCAGATGATAGTGTAGGCTGGAGCTGCTTCG
	traWdnP2	CTGTTTTATTTTCGTCGGTCATTTTCTGGATACTCCTATATGAATATCCTCCTTA
<i>traX</i>	traXupP1	GGAGAGTGTGAACGCGGGAGTATCCAGAAAATGACCGTGTAGGCTGGAGCTGCTTCG
	traXdnP2	AAGCAACCTTTTTAATTTACTCATGTGGCCCCGTTATATGAATATCCTCCTTA
<i>traY</i>	traYupP1	CGCAGGCTGGTCAAGAGCGGGGGCCACATGAGTAAAGTGTAGGCTGGAGCTGCTTCG
	traYdnP2	GTCAGTGTGATAACGCATTCATATTTAAGCTCCTTATATGAATATCCTCCTTA
<i>trbA</i>	trbAupP1	ATCGGGAAGGTTACCAAAAATTTCTGAGGTTCTGAGTGTAGGCTGGAGCTGCTTCG
	trbAdnP2	CGATCGGTTTTTACGGTGAGTTTCATACTTCTCTCGCTATATGAATATCCTCCTTA
<i>trbB</i>	trbBupP1	CCCGTCCCGATCACCTGGAACCTAAGCGAGGAAGTGTGTAGGCTGGAGCTGCTTCG
	trbBdnP2	GCAGCGGGCATCGTCTTTGACAGCAACCGGAGCCGACATATGAATATCCTCCTTA
<i>trbC</i>	trbCupP1	CTCAGCAGGCAATAGGAAATAACCCGAGCCGCTGTGTAGGCTGGAGCTGCTTCG
	trbCdnP2	CTGATTAACAACCCGGCAAACGCCGGCTTCAGGGTATATGAATATCCTCCTTA
<i>trbN</i>	trbNupP1	TTTTTTACTCGAAATAGAAATCATTAGGAGATTGTTGTGTAGGCTGGAGCTGCTTCG
	trbNdnP2	CCCTTTCCGTTGTGGCTGGTTTTGCATCAGAACCCTCTATATGAATATCCTCCTTA

Sequences homologous to the *cat* gene are shown in bold

Table S3. Primers used for verification of *cat* integration and *cat* elimination

Gene	Primer	Sequence 5'-3'	Expected product size (bp)		
			WT plasmid template	mutated plasmid template with <i>cat</i> insertion	with <i>cat</i> eliminated
<i>excA</i>	excAsU	CAGTGTGGGTGATATGCAG	1191	1567	
	excAsD	CCGTAAGGTTATGTAAACGC			
<i>nikA</i>	nikAsD	TCAGGAGTAGGCTGAACTGT	542	1246	
	oriTminU	ATAGGATCCAGTACGGGACAAGATGTGTT			
<i>nikB</i>	nikBsU	CGGAGTTCATAGCAAGGAGT	2149	1197	267
	nikBsD	CCTTTTCGCTTTGAGAGGCA			
<i>orf35</i>	orf35sU	GCTATATGCGAAAGGTGAAGG	670	1320	
	oriTminD	TAAGTGCAGAGATAGCTAACCTCGTTAGG			
<i>orf36</i>	orf36sU	GGATGAGGTATGCAATACGG	928	1368	
	pCTX96	CCGAGTCAGTTTGATCCATA			
<i>orf38</i>	orf38sU	CTGACCGCATGGATCTCTTC	702	1235	
	orf38sD	CCTGCGACGTAAGCCCTACA			
<i>orf46</i>	orf46sU	ACGACGTGCTTTACCACAG	980	1487	
	pCTX101	ACCCGGAATAGGGTATACTG			
<i>pri</i>	priSu	GCCATGATGGGCTACACGTT	3461	1313	389
	CTX13200	TATAGGCAGCATCAGCACCAGC			
<i>traH</i>	traHsU	GAAACATCGTTTGATTCGTG	706	1223	
	traHsD	TGGCGGGTCCATGTAGTAAT			
<i>traI</i>	traIsU	CAACTGGCTAAACAGCGTGG	1117	1359	
	traIsD	CGCCCTGCAACAGAATATCG			
<i>traJ</i>	traJsU	TTAAGGCTCCAGTCATCACA	1482	1353	
	traJsD	GGTAACGTGTAGCCAATCAT			
<i>traK</i>	traKsU	TCGACGACCTGTTGATCGCT	599	1363	
	traKsD	TCTTTCAGCCGCTCAGGTT			
<i>traL</i>	traLsU	CACGGATACGGCCATGTTGA	765	1363	
	traLsD	ACCGCCGCGTTGAAATACGA			
<i>traM</i>	traMsU	TGGCTTTTCGTCGTTCCGCAC	1028	1285	
	traMsD	GTGACTGCTGATTACGGGC			
<i>traN</i>	traNsU	ACTTTGCCAACCCTACAATG	1828	1691	
	traNsD	TGAAGCTATCCCCTGTGAGA			
<i>traO</i>	traOsU	GCCAGGGAGTACCAAAGTCT	1717	1384	
	traOsD	CCACCAATCCATGCATAGTC			
<i>traP</i>	CTX17550	TGCAACCTCAGCAGATGCCTCAGC	970	1281	301
	traPsD	GCAGGCTCATCAAGTATCCA			
<i>traQ</i>	traQsU	AGTCAACTTGGCGGAGTCAC	753	1238	
	traQsD	CAGCGGCAATACCACTAACG			
<i>traR</i>	CTX18700	AAAGACTCTTACCTTGAGGGCC	750	1706	
	CTX19450	ATTTTCTCCGGATGTTCCGAGCG			
<i>traU</i>	traUsU	TGTCGCTTCTGTTGCAGAGT	3246	1233	
	traUsD	GCGTTGAGATGGGAATGCTG			
<i>traW</i>	traWsU	CCCTATGGGAAGTGCATCAA	1534	1365	
	traWsD	AAGAGCAGGCTGAATGTTTG			
<i>traX</i>	traXsU	CAAACAGCAGCTGGAGAAAC	892	1281	
	traXsD	CATTTGACGCGATAGGTCAC			
<i>traY</i>	traYsU	CGCCGAAGTTATGAAACGGA	2777	1629	699
	traYsD	GCACTGCATCGATCACAAG			
<i>trbA</i>	5c25	TTCAAAGCGGAACAGCTGCACCGC	1667	1455	
	3c56n	ACTTTTGCCTCTGCAATGGC			
<i>trbB</i>	trbBsU	GACACCCCGAACAACAGTCT	1829	1948	
	pCTX103	AGGAACTGAGCAAACGCTAT			
<i>trbC</i>	trbCsU	GTTGCCGATTCGGGTGATGT	2299	1225	
	trbCsD	GGAGCCAGGAACGAGAAGTA			
<i>trbN</i>	trbNsU	CATTGTCTCTGTCGAAGGCA	648	1274	
	trbNsD	GACAGGCTCCGTAATCACA			

Table S4. Primers used for verification of the presence of helper plasmids (pKD46 and pCP20) and for sequencing

Primer	Sequence 5'-3'	Application
repKD46F	TTTGCGTGAGCCATGAGAAC	pKD46 and pCP20 <i>repA101</i> detection - 774 bp
repKD46R	GGAAAGAACGGACGGTATCG	
TEMfor	CTGGATCTCAACAGCGGT	detection of <i>bla</i> _{TEM-1} in pKD46 and pCTX-M3 - 730 bp (1)
catU142	GTCGGCAGATGCTTAATG	sequencing primer
traKsta	ATGGACATTAACAAATGGCG	sequencing primer
TnTEMrev	CTGACAGTTACCAATGCT	(1)
pri1F	TGAATTTACGGCGTGGCTTG	pAL <i>pri</i> sequencing primer
pri2F	AGCAGCCAGTATCAGCGAAG	
pri3F	AGCTGCCGAACCGGAATACG	
pri4F	GAATGGAATGCGCTGGGAA	
pri5F	ACAGCCAACAGCAGGGAATG	

Table S5. Primers used for additional multiplex PCR verification of *cat* elimination

Gene	Primer	Sequence 5'-3'	Expected product size (bp)	
			with <i>cat</i> insertion	with <i>cat</i> eliminated
<i>nikB</i>	nikBDVer	GCTTACGGGTCAGGTAATTG	402	732
	nikAF	CCATGAAGCAGGGCTTAGTC		
	catReVer	GCTGGTGATATGGGATAGTG		
<i>pri</i>	priDVer	GCTTTACCGTCCACTGTATC	476	638
	priUVer	CTGCTGGCCATGATGGGCTACAC		
	catReVer	GCTGGTGATATGGGATAGTG		
<i>traU</i>	traUsU	TGTCGCTTCTGTTGCAGAGT	286	589
	traUDVer	ATGATTTAGCGCCCTGAACCTC		
	catReVer	GCTGGTGATATGGGATAGTG		
<i>traY</i>	traYsU	CGCCGAAGTTATGAAACGGA	424	545
	traYDVer	GGCGACGCCACAACGAAAAGAGATAG		
	catReVer	GCTGGTGATATGGGATAGTG		

Table S6. Primers used for PCR-amplified gene cloning intopAL3 and pMT5 vectors

Gene	Primer	Sequence 5'-3'
<i>excA</i>	excAUEc	GATGAATTC <u>AAGGACGG</u> CATCAAAGGAGC
	excAsD	CCGTAAGGTTATGTAAACGC
<i>nikA</i>	nikAUEc	CCCCGAATTC <u>CCCTAACGAGG</u> TTAGC
	nikAsD	TCAGGAGTAGGCTGAACTGT
<i>nikB</i>	nikBUSa	AGGAGCTCCAACAGGAGATGGATGG
	nikBsD	CCTTTTCGCTTTGAGAGGCA
<i>orf35</i>	orf35UEc	TCGAATTCGACATTATTGGGAGGGC
	orf35sU	GCTATATGCGAAAAGGTGAAGG
<i>orf36</i>	orf36UEc	TGGAATTC <u>AACAATCCGGCAGCTGCGAGTGG</u>
	pCTX96	CCGAGTCAGTTTGATCCATA
<i>orf38</i>	orf38UEc	CCGAATTC <u>CGGGGCAATATCGGAGTTC</u>
	orf38sD	CCTGCGACGTAAGCCCTACA
<i>traH</i>	traHUEc	TTGAATTCGAAGTAAAATGGAGTAAG
	traHDKp	GCGGTACCGTCAGAAACACGATCAG
<i>traI</i>	traIUEc	AAGAATTCATTCCTCAGAGGGACCC
	traIsD	CGCCCTGCAACAGAATATCG
<i>traJ</i>	traJUEc	GAGAATTCGTTAAGGGGCAGTAGATG
	traJDKp	ATGGTACCATTGTGTTAATGTCCATACTTGC
<i>traK</i>	traKUEc	CTGGAATTCAAAGAGGGCAAGTATGGAC
	traKsD	TCTTTCAGCCGGCTCAGGTT
<i>traL</i>	traLUEc	AAGAATTCGAAAGGAGAGAACAGACTC
	traLsD	ACCGCCGCGTTGAAATACGA
<i>traM</i>	traMUEc	CAGAATTCCTGCACAGGATTCGTAATC
	traMDKp	GCGGTACCATAAGTACAGTTAACAG
<i>traN</i>	traNUEc	GGGAATTC <u>TCAAACCCCGGA</u> ACTACTG
	traNDKp	TCGGTACCTTTATCTGTAGCCATCG
<i>traO</i>	traOUSa	TTGAGCTCAATTAAGGGGAACGAC
	traOsD	CCACCAATCCATGCATAGTC
<i>traP</i>	traPUEc	CCGAATTC <u>CCGTTAAGGAGATTGATAATG</u>
	traPDKp	CTGGTACCATAAGTTTCGCTTTTTTAGG
<i>traQ</i>	traQUSa	TATGAGCTCAACAGGACCTAAAAAGGC
	traQsD	CAGCGGCAATACCACTAACG
<i>traR</i>	traRUEc	TAAGAATTC <u>ACTGGTAATCAAAAAGGATAC</u>
	CTX19450	ATTTTCTCCGGATGTTGAGCG
<i>traU</i>	traUUSa	GGGAGCTCATTACAAGGGTAAGAGAG
	traUsD	GCGTTGAGATGGGAATGCTG
<i>traW</i>	traWUMu	ATCAATTGTGATGTGAGAAGGGGATTCAGATG
	traWDKp	TTGGTACCGGTCATTTTCTGGATACTCCC
<i>traX</i>	traXUEc	CTGAATTC <u>TGTGAACGCGGGAGTATCCAG</u>
	traXsD	CATTTGACGCGATAGGTCAC
<i>traY</i>	traYUEc	TTAAGAATTCGAGGCTGGTCAAGAGCGG
	traYsD	GCACTGCATCGATCACAAAG
<i>trbA</i>	trbAUEc	CCAGAATTC <u>TCTGAGGTTCTGATG</u>
	5c25	TTCAAAGCGGAACAGCTGCACCGC
<i>trbB</i>	trbBuEc2	CCGAATTC <u>CAGTCTGCGACTGACAGACGATG</u>
	trbBDKp	GCGGTACCGGGTATTCTCCTATTGC
<i>trbC</i>	trbCUEc	AGAATTC <u>AATAGGAGAATAACCCG</u>
	trbCsD	GGAGCCAGGAACGAGAAGTA
<i>trbN</i>	trbNUEc	TAGAATTCATTAGGAGATTGTTATGGTTG
	trbNDKp	CCGGGTACCGTTGTGGCTGGTTTTG

Relevant restriction sites are underlined

Table S7. Primers for RT-qPCR

Gene	Primer	Sequence 5'-3'
<i>repA</i>	pRepAaF	TCACATGGGACCCGTTTAACC
	pRepAaR	GCGCGGCTTTAACAGAGATTTC
<i>nikA</i>	pCNikAaF	TCTTATCAAATCTGGGCTTGAAAG
	pCNikAaR	ACCATCCATCTCCTGTTGCAG
<i>nikB</i>	pCNikBaF	GAAAGAATGCTGCTCAAGGGG
	pCNikBaR	CGTTTGAACTCAGCCAGGTTG
<i>traH</i>	pCTraHaF	CCCGTTACAAATTCCTACC
	pCTraHaR	GCAACTGTTCAAACGTAACC
<i>orf35</i>	pCOrf5aF	AAGCATTCTCGACGACTTG
	pCOrf5aR	CCGGCAGTAATGTCCTTG
<i>orf36</i>	pCOrf3aF	TAGCTTGCCGGTTCGTATTTTC
	pCOrf3aR	CCGAGATGAGCGACGATGAG
<i>traL</i>	pCtraLaF	GGGAGCCTGACTAATACAAC
	pCtraLaR	ATGGAACGGGAATGCATCAC
<i>traM</i>	pCtraMaF	TTCAGGGTTACTGGCTTCAC
	pCtraMaR	CCGCGGACGCTGGTTAATTG
<i>traN</i>	pCtraNaF	GCAGACACTGGAAGAGTTAC
	pCtraNaR	CCGTACCTGCGGAATGGATG
<i>traO</i>	pCtraOaF	AGATAAAGCGGCTCTCACAG
	pCtraOaR	ACGTAGCCACCGCTTTAGCC
<i>traP</i>	pCtraPaF	GGCAGGATTCTGGTGACTTC
	pCtraPaR	GCCCATAACCAGCGCTTTC
<i>traQ</i>	pCtraQaF	GCAGTCGTTGGGATCATTGG
	pCtraQaR	CTGACGGGTCCGAAGCTAAC
<i>traU</i>	pCtraUaF	GCCGTGAACGCGCTTACATC
	pCtraUaR	CAATCAGGCGCCACAGCATC
<i>traW</i>	pCtraWaF	GCAGGCACAGGATAAGTACC
	pCtraWaR	AACTTCGGCCGTTGAAGATG
<i>traX</i>	pCtraXaF	CCCGGAAGGGAAGGCTAAAC
	pCtraXaR	TTCATAACTTCGGCGAACGG
<i>traY</i>	pCtraYaF	TGGTGCGGTTCAATCATTGG
	pCtraYaR	TGGCCAGAAGCCTCCATTG
<i>trbN</i>	pCTrbNaF	GTGGATTCTCGCCTTGTGG
	pCTrbNaR	TGTTGTATTTGAGGATGTAGGCAC
<i>excA</i>	pCexcAaF	TGGACGGTTAGAGACGGTTC
	pCexcAaR	TTCTCCGGGCCAGGTCATAG

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