

Supplementary information

Seq. 1 Sequence of pC322mSaCas9-(CMV-T7-SaCas9-PolyA)

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CAATGACGGTAAATGGCCCGCTGGCATTATGCCAGTACATGACCTTATGGGACTTTCCTACTTGGCA
GTACATCTACGTATTAGTCATCGCTATTACCATGGTGTATGCGGTTTTGGCAGTACATCAATGGGCGTGG
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A G G C A T G C T G G G G A T G C G G T G G G C T C T A T G G

Seq. 2 Sequence of pCS2-tRNA-*Bbs* I-*Bbs* I-NN—*Xho* I-NN

AACAAAGCACCAGTGGTCTAGTGGTAGAATAGTACCCTGCCACGGTACAGACCCGGGTTTCGATTCCCG
GCTGGTGCA GGGTCTTCGAGAAGACCT-NN-CTCGAG-NN

Seq. 3 Sequence of pCS2-tRNA-sgRNA-(CMV-SP6-tRNA-spacer-sgRNA scaffold-T7-PolyA)

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CATGGTGCCAATAATGGCGGCCATATTGGCTATATGCCAGGATCAATATATAGGCAATATCCAATATGGCC
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GGTTTTCTATTGACGTAGATAGCCCCTCCAATGGGCGGTCCCATATACCATATATGGGGCTTCCTAAT
ACCGCCATAGCCACTCCCCATTGACGTCAATGGTCTCTATATATGGTCTTTCTATTGACGTCAATGG
GCGGTCTATTGACGTATATGGCGCCTCCCCATTGACGTCAATTACGGTAAATGGCCCGCTGGCTCA
ATGCCATTGACGTCAATAGGACCACCACCATTGACGTCAATGGGATGGCTCATTGCCATTCAATC
CGTTCTCACGCCCCCTATTGACGTCAATGACGGTAAATGGCCACTTGGCAGTACATCAATATCTATTA
TAGTAACTTGGCAAGTACATTACTATTGGAAGGACGCCAGGGTACATTGGCAGTACTCCCATTGACGTC
AATGGCGGTAATGGCCCGCATGGCTGCCAAGTACATCCCATTGACGTCAATGGGGAGGGGCAATG
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GTAGAATAGTACCCTGCCACGGTACAGACCCGGGTTTCGATTCCCAGGCTGGTGCA AATTGTGGCGATCA
AAGCACC GTTTTAGTACTCTGGAAACAGAATCTACTAAAACAAGGCAAAATGCCGTGTTTATCTCGTC
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ATAAGATACATTGATGAGTTTGGACAAACCACA ACTAGAATGCAGTGAAAAAATGCTTTATTTGTGA
AATTTGTGATGCTATTGCTTTATTTGTAACCATTATAAGCTGCAATAAACAAGTTAACAACAACAATTGC
ATTCATTTTATGTTTTCAAGGTTCAAGGGGAGGGTGTGGGAGGTTTTTTA

Seq. 4 Sequence of pCS2-tRNA-sgRNA-tRNA-(CMV-SP6-tRNA-spacer-sgRNA scaffold-tRNA- PolyA)

GTCGACCATAGCCAATTCAATATGGCGTATATGGACTCATGCCAATTCAATATGGTGGATCTGGACCTGT
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CATGGTGCCAATAATGGCGGCCATATTGGCTATATGCCAGGATCAATATATAGGCAATATCCAATATGGCC
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G G T T C A G G G G G A G G T G T G G G A G G T T T T T A

Seq. 5 Sequence of pC322mSaCas9-tRNA-sgRNA-tRNA-(CMV-T7-SaCas9-tRNA-spacer-sgRNA scaffold-tRNA-PolyA)

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GACCGCCCAACGACCCCGCCATTGACGTCAATAATGACGTATGTTCCCATAGTACGCCAATAGGG
ACTTTCATTGACGTCAATGGTGGACTATTACGGTAACTGCCACTTGGCAGTACATCAAGTGTAT
CATATGCCAAGTACGCCCCCTATTGACGTCAATGACGGTAAATGGCCCGCTGGCATTATGCCAGTAC
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A A A G T G C C A C C T G A C G T C

Seq. 6 Sequence of T7-spacer-sgRNA scaffold

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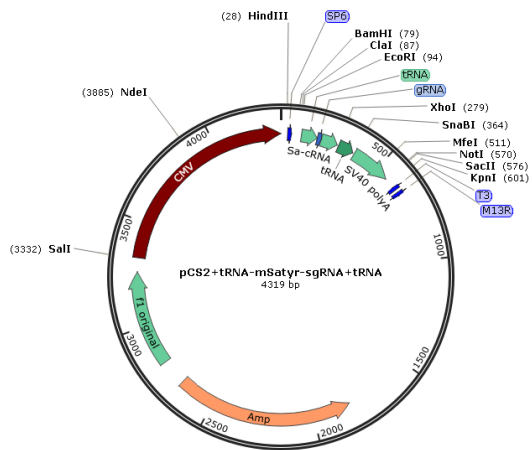


Fig. S4 Restriction endonuclease pattern of plasmid pCS2+tRNA-mSatyr-sgRNA+tRNA

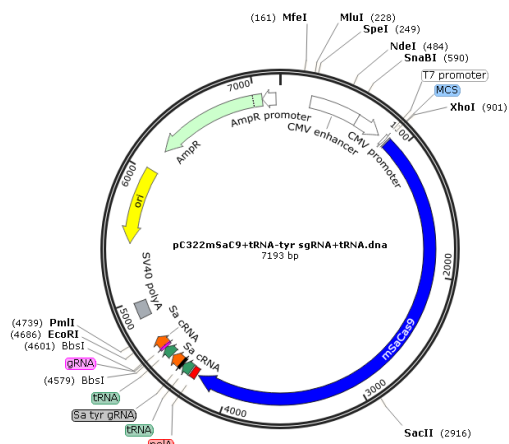


Fig. S5 Restriction endonuclease pattern of plasmid pC322mSaCas9+tRNA-tyr sgRNA+tRNA