
Supplementary information

Small subunits can determine enzyme kinetics of tobacco Rubisco expressed in *Escherichia coli*

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**Small subunits can determine enzyme kinetics of tobacco Rubisco
expressed in *Escherichia coli***

Myat T. Lin¹, William D. Stone^{1,2}, Vishalsingh Chaudhari¹, Maureen R. Hanson¹

¹Department of Molecular Biology and Genetics, Cornell University, Ithaca, New York, 14853

²Present address: Johns Hopkins University Applied Physics Laboratory, Laurel, Maryland, 20723

Supplementary Table 1. Oligonucleotide sequences used in the construction of expression vectors

Names	Sequences (5' to 3')
BamHI-BJF5	ACTTTCGATTCACTCGTGGGATC
NsiI-BJF3	AGATATGCATGCGGCCGCAGATCCTGCAGGGAAGTAGTCAGATGCTTCTTCTATTC
BB-SD-f	AGATCCTGCAGGAGATACGCGTGAAGGAGACGCGCGCGATCTGCGGCCGCATGCAT
BJF5623r	TGCTTCCGGCTCGTATGTTGTG
MauBI-T7P-f	GAGACGCGCGTAATACGACTCACTATAGGGAGACCACAACGGTTTCCCTCTAGAAATA
NdeI-RBS-r	AGCCATATGTATATCTCCTTCTTAAAGTTAAACAAAATTATTTCTAGAGGGAAACCGTTG
NdeI-Nt_c60a-f	ATACATATGGCTAAAGAAATTGCCTTTGAC
NotI-Nt_c60a-r	CATGCGGCCGCACTGGGCGCGCCTCACACTGAGAGCCCCTTG
NdeI-groESfor	ATAGCATATGAATATTCGTCCATTGCATGATC
AscI-groESrev	ATCAGGCGCGCCAAGTATTACGCTTCAACAATTGCCAGAATG
NdeI-NtXfor	ATACATATGGCAAAAGCATTAAAGGGTAATTAC
AscI-NtXrev	ATCAGGCGCGCCTCACCCAACCTCTCTCCGAG
NdeI-NtS1aF	ATAGCATATGCAGGTGTGGCCACC
AscI-NtS1aR	ATCAGGCGCGCCAAGTATTAATATCCTTCAGGCTTGTAGG
NdeI_NtSSUT1F	ATAGCATATGCAGGTATGGCCCCCATATG
SSUT1-RBS-rev	CTTGCCATATGGGGGCCATACCTGCATAGTTATATCTCCTTCTTAAAGTTAAAC
AscI_NtSSUT1R	ATCAGGCGCGCCAAGTATTAGTAGCCTTCAGGCTTGTAGG
BNGseqFor	TCTCTGGTTCAAGTCCAGGATG
NdeI-SSU-T-F2	ATAGCATATGAAGACTTGAATCCGATTGAC
AscI-SSU-T-R	ATCAGGCGCGCCAAGTACTATGCTGCTGCAGGTTTCTG
AscI-SSU-T2R	ATCAGGCGCGCCAAGTATTAGTAGCCTTCAGGCTTGTAGGCA
AscI-NtS2R	ATCAGGCGCGCCAAGTATTAGTAGCCTTCGGGCTTGTAG
AscI-NtT4aR	ATCAGGCGCGCCAAGTATTAGTAGCCTGCGGGCTTGTAG
NtSSUS2ctpF	CTCCTCCTTCCCTGTTACC
NtSSUT2ctpF	CTTCACTGGCCTCAAATCC
NtSSUS3ctpF	CTGGTCTCAAGTCCGCAA
NtSSUS4_3UTR	ACTTCCCCCGAAGACATG
NtSSUS2_3UTR	GGGGAAGCCCAAGGAG
NtSSUS3_3UTR	GGGAAAAACTCAAGGAGAATG
NtSSUS5_3UTR	GGGAAAAACTCAAGGAGAATT
NtSSUT2_3UTR	CAAAACAGTTTCTTCAGGGTAAG
NtSSUT3a_3UTR	AGGTTCTCCAAGCAGAAACAT
NtSSUT4a_3UTR	GTTTCTCCGGGGAAAAACAC
MauBI-T7P-lacO-f	ATCAACGCGCGCGAAGTTAATACGACTCACTATAGGGGAATTGTGAGCGGATAACAATTC
lacO-RBS-for	GAATTGTGAGCGGATAACAATCCCCTCTAGAAATAATTTTGTTTAACTTTAAGAAG
RBS-Nt_rbcL-for	GAAATAATTTTGTTTAACTTTAAGAAGGAGATATACATACCCATGTCACCACAAACAGAG
AscI-NtL-rev	ATCAGGCGCGCCAAGTATTA CTTATCCAAAACGTCCAC
AscI-6H-NtS1a-R	ACGGCGCGCCTTAATGGTGATGGTGATGGTGTTCCAGCGCATATCCTTCAGGCTTGTAGG
MauBI-extRBS-F	GATCTCGCGCGCGGATAACAATTGCCCTCTAGAAATAATTTTGTTTAACTTTAAGAAG
RBS-Nt_c20-f	GAAATAATTTTGTTTAACTTTAAGAAGGAGATATACATATGGCTGCTACTGTTGTAGC
NotI-Nt_c20-r	CATGCGGCCGCACTGGGCGCGCCTATGAAAGCACAGCCATTAC
ParaF2	ATCATCCGGAAGAAACCAATTGTCCATATTGCATC
ParaR	CATGGGTATGTATATCTCCTTCTTA

Para-S1aF	TAAGAAGGAGATATACATACCCATGCAGGTGTGGCCACCAATTA
B1002-S1aR	CGAAGCGGGGTTTTTTGCGACTTAATATCCTTCAGGCTTGTAGG
B1002R	ATCATCCGGAGCGAAAAAACCCGCCGAAGCGGGGTTTTTTGCG
NcoI-NtRbcXF	ATCTCCATGGCAAAAGCATTAAAGGGTAATTAC
NotI-R	GTTAGCAGCGGCCGCACTG
PstI-pCDF-F	TAGACTGCAGGTCTGGCGATATAG
pCDF-IG2-R	CATCATATGTATATCTCCTTCTTAAAG
pCDF-IG2-RN	ATGTATATCTCCTTCTTAAAGTTAAAC
pCDF-IG2-F	GCTAGCATGACTGGTGGAC
XhoI-pCDF-R	CTTTACCAGACTCGAGGGTAC
IG2-Ntraf2FN	GTTTAACTTTAAGAAGGAGATATACATATGCTATTGGGCGATTTTGGG
IG2-Ntraf2R	GTCCACCAGTCATGCTAGCTTATGCCCAAACCTCTTTTCTTGG
IG2-Ntbsd2F	CTTTAAGAAGGAGATATACATATGATGGCCACTGACAGTGATAAAG
IG2-Ntbsd2R	GTCCACCAGTCATGCTAGCCTACTCATCGAACGTACTCATAAATC
NcoI-NtrbcLF	GACACCATGGCACCACAAACAGAGACTAAAG
NtrbcLR-S-H	GACAAAGCTTAGTACTAGTTTACTTATCCAAAACGTCCACTGCTG
pBAD_138F	GACCAAAGCCATGACAAAAACG
NtrbcLR_A2S	TCTGTTTGTGGTGACATGGGTATG
NtrbcLF_A2S	ACCCATGTCACCACAAACAGAG
NtrbcL_518R	GATAACCCCAATTTAGGTTTAATAG
NaeI-araC-F	ATCAGCCGGCGAAGCGGCATGC
NaeI-rrnBT2-R	ATCAGCCGGCAAAAGGCCATCCGTCAGG
NdeI-NtC60bF	TATACATATGGCAGCAAAGGAGTTGTATTTTC
EcoRV-NtC60bR	CCGGCCGATATCTTAGTATCCATAACCTGAATTGTC
NcoI-NtC60aF	ATATACCATGGCTAAAGAAATTGCCTTTGACCAG
AscI-NtC60aR	CACTGGGCGCGCCAAGTATCACACTGAGAGCCCTTG
NheI-NtC60aF	GATCTGCTAGCAATAATTTTGTTTAACTTTAAGAAGGAGATATACATATGGCTAAAG
BsiWI-NtC60bR	ATCTCGTACGTTGCAGATTACAAAGATATAACATAATTAGTATCCATAACCTGAATTGTC
NtC60b_dMluI_F	GTTGTCTAGAGCATGCGTCATCAGTG
pET148_R	GGTTATTGTCTCATGAGCGGATAC
AgeI-T7P-for	ATCAACCGGTAAGTTAATACGACTCACTATAGGGGAATTG
AgeI-NotI-rev	ATCAACCGGTGCATGCGGCCGCAC