

Table S1 Primers used in this study.

Primer	Sequence (5'-3')
P43NMK- library-F	TGATGAAAGCTTGGCGTAATCATGG
P43NMK-library-R	GTGTACATTCCTCTCTTACCTATAATGGTACCG
UTR2-EGFP-F	GGTAAGAGAGGAATGTACACGAGATTTTCCCAGTTATATTGCATTTTTCCTC
UTR3-EGFP-F	GGTAAGAGAGGAATGTACACTTTTTTTAATATAATTTGTTAGAATATTCATAATTTAG TAAAAAAGGAGGAGCGTTATG
UTR4-EGFP-F	GGTAAGAGAGGAATGTACACGTAAAAAAGGAGGAGCGTTATGAGTAAAGGAG
EGFP-R	ATTACGCCAAGCTTTCATCACTATTTGTATAGTTCATCCATGCCATGTGTAATCC
EGFP-N1-F	GGTAAGAGAGGAATGTACACGTNAAANAGGNGGANC GTNAT GAGTAAAGGAGAAGAAGCTTTTCACTGGAG
EGFP-N2-F	GGTAAGAGAGGAATGTACACGNAAANAAGNAGGNGCGNTAT GAGTAAAGGAGAAGAAGCTTTTCACTGGAG
EGFP-N3-F	GGTAAGAGAGGAATGTACACNTAANAAANGAGNAGCNTTAT GAGTAAAGGAGAAGAAGCTTTTCACTGGAG
EGFP-N4-F	GGTAAGAGAGGAATGTACACGTANAAAANGGANGAGNGTTATGAGTAAAGGAGAAGAAGCTTTTCACTGGAG
EGFP-N-R	CTATTTGTATAGTTCATCCATGCCATGTGT
G-R-F1	GGTAAGAGAGGAATGTACACGTAAAAAAGGAGGAGCGTTATGAGTAAAGGAG

G-R-R1	GTGTACATTCTCTCTTACCTATTTGTATAGTTCATCCATGCCATGTGTAATCC
G-R-F2	TGGCATGGATGAACTATACAAATAGGTAAGAGAGGAATGTACACGTAAAAAAGGAGGAGCG TTATGGTGAGCAAGGGCGAG
G-R-R2	ATTACGCCAAGCTTTCATCATTACTTGTACAGCTCGTCCATGCC
G-R-N1-F2	TGGCATGGATGAACTATACAAATAGGTAAGAGAGGAATGTACACNTAANAAAANGAGNAGCNTT ATGGTGAGCAAGGGCGAG
G-R-N2-F2	TGGCATGGATGAACTATACAAATAGGTAAGAGAGGAATGTACACGNAAANAAGNAGGNGCGNT ATGGTGAGCAAGGGCGAG
G-R-N3-F2	TGGCATGGATGAACTATACAAATAGGTAAGAGAGGAATGTACACGTNAAANAGGNGGANCNTN ATGGTGAGCAAGGGCGAG
G-R-N4-F2	TGGCATGGATGAACTATACAAATAGGTAAGAGAGGAATGTACACGTANAAANGGANGAGNGTT ATGGTGAGCAAGGGCGAG
P43NMK-F	TGATGAAAGCTTGCGCTAATCATGG
P43NMK-R	GTGTACATTCTCTCTTACCTATAATGGTACCG
P43NMK-F-F	ATGAGTAAAGGAGAAGAAGCTTTTCACTGGAG
P43NMK-F-R	GTGTACATTCTCTCTTACCTATAATGGTACCG
P43-rib-F	GGTAAGAGAGGAATGTACACATGGAAGAGTATTATATGAAGCTGGCCTTAG
P43-rib-R	ATTACGCCAAGCTTTCATCATTATTCAAATGAGCGGTTTAAATTTGCCATTTTC

P43-rib-F5-F	GGTAAGAGAGGAATGTACACGTAAAAAAGGAGGAGCGTTATGGAAGAGTATTATATGAAGCTGGCCTTAG
ribDEBAH-F1-1	GGTAAGAGAGGAATGTACACNTAANAAANGAGNAGCNTTATGGAAGAGTATTATATGAAGCTGGCCTTAG
ribDEBAH-F1-2	GGTAAGAGAGGAATGTACACGNAAANAAGNAGGNGCGNTATGGAAGAGTATTATATGAAGCTGGCCTTAG
ribDEBAH-F1-3	GGTAAGAGAGGAATGTACACGTNAAANAGGNGGANC GTNATGGAAGAGTATTATATGAAGCTGGCCTTAG
ribDEBAH-F1-4	GGTAAGAGAGGAATGTACACGTANAAANGGANGAGNGTTATGGAAGAGTATTATATGAAGCTGGCCTTAG
ribDEBAH-R1	GTGTACATTCTCTCTTACCTATTCCTTTGTCTGGTTTTGCCGT
ribDEBAH-F2-1	CCGACAAAGGAATAGGTAAGAGAGGAATGTACACNTAANAAANGAGNAGCNTTATGTTTACAGGAATTATC GAAGAAACAGGC
ribDEBAH-F2-2	CCGACAAAGGAATAGGTAAGAGAGGAATGTACACGNAAANAAGNAGGNGCGNTATGTTTACAGGAATTATC GAAGAAACAGGC
ribDEBAH-F2-3	CCGACAAAGGAATAGGTAAGAGAGGAATGTACACGTNAAANAGGNGGANC GTNATGTTTACAGGAATTATC GAAGAAACAGGC
ribDEBAH-F2-4	CCGACAAAGGAATAGGTAAGAGAGGAATGTACACGTANAAANGGANGAGNGTTATGTTTACAGGAATTATC GAAGAAACAGGC
ribDEBAH-R2	GTGTACATTCTCTCTTACCTAAAAGCCGTTTTCTGCTTAAGAAGG
ribDEBAH-F3-1	CTTAAGCGAAAACGGCTTTTAGGTAAGAGAGGAATGTACACNTA ANAAANGAGNAGCNTTATGTTTCATCCGATAGAAGAAGCACTG
ribDEBAH-F3-2	CTTAAGCGAAAACGGCTTTTAGGTAAGAGAGGAATGTACACGNAAANAAGNAGGNGCGNTATGTTTCATCC GATAGAAGAAGCACTG

ribDEBAH-F3-3	CTTAAGCGAAAACGGCTTTTAGGTAAGAGAGGAATGTACACGTNAAANAGGNGGANC GTNATGTTTCATCCG ATAGAAGAAGCACTG
ribDEBAH-F3-4	CTTAAGCGAAAACGGCTTTTAGGTAAGAGAGGAATGTACACGTANAAANGGANGAGNGTTATGTTTCATCCGA TAGAAGAAGCACTG
ribDEBAH-R3	GTGTACATTCCCTCTCTTACTTAGAAATGAAGTAAATGACCTAGCTTGTTTCATTTTGG
ribDEBAH-F4-1	ACTTCATTTCTAAGTAAGAGAGGAATGTACACNTAANAAANGAGNAGCNTTATGAATATCATACAAGGAAATT TAGTTGGTACAGG
ribDEBAH-F4-2	ACTTCATTTCTAAGTAAGAGAGGAATGTACACGNAAANAAGNAGGNGCGNTATGAATATCATACAAGGAAATT TAGTTGGTACAGG
ribDEBAH-F4-3	ACTTCATTTCTAAGTAAGAGAGGAATGTACACGTNAAANAGGNGGANC GTNATGAATATCATACAAGGAAATTT AGTTGGTACAGG
ribDEBAH-F4-4	ACTTCATTTCTAAGTAAGAGAGGAATGTACACGTANAAANGGANGAGNGTTATGAATATCATACAAGGAAATTT AGTTGGTACAGG
ribDEBAH-F2	CCGACAAAGGAATAGGTAAGAGAGGAATGTACACGTAAAAAAGGAGGAGCGTTATGTTTACAGGAATTATCGAA GAAACAGGC
ribDEBAH-F3	CTTAAGCGAAAACGGCTTTTAGGTAAGAGAGGAATGTACACGTAAAAAAGGAGGAGCGTTATGTTTCATCCGATA GAAGAAGCACTG
ribDEBAH-F4	ACTTCATTTCTAAGTAAGAGAGGAATGTACACGTAAAAAAGGAGGAGCGTTATGAATATCATACAAGGAAATTTA GTTGGTACAGG
ribDEBAH-R4	ATTACGCCAAGCTTTCATCATTATTCAAATGAGCGGTTTAAATTTGCCATTTTC
