

## Supplementary Table S1. Oligonucleotides used in this study.

| NAME      | <sup>a)</sup> SEQUENCE (5' to 3')   | Application |
|-----------|---|-------------|
| A1U       | GTCCATGCCCCAAAGCCACCCAAGGCACAGCTTGGAGGCT <b>AGA</b> ACAGTAGGACATGAAC          | Template    |
| A1G       | GTCCATGCCCCAAAGCCACCCAAGGCACAGCTTGGAGGCT <b>CGA</b> ACAGTAGGACATGAAC          | "           |
| A1C       | GTCCATGCCCCAAAGCCACCCAAGGCACAGCTTGGAGGCT <b>GGA</b> ACAGTAGGACATGAAC          | "           |
| A1,2U     | GTCCATGCCCCAAAGCCACCCAAGGCACAGCTTGGAGG <b>CA</b> AGAACAGTAGGACATGAAC          | "           |
| A1,2G     | GTCCATGCCCCAAAGCCACCCAAGGCACAGCTTGGAGG <b>CC</b> GAACAGTAGGACATGAAC           | "           |
| A1,2C     | GTCCATGCCCCAAAGCCACCCAAGGCACAGCTTGGAGG <b>CG</b> GAACAGTAGGACATGAAC           | "           |
| U29A      | GTCCATGCCCC <b>ATAG</b> CCACCCAAGGCACAGCTTGGAGGCTTGAACAGTAGGACATGAAC          | "           |
| U28,29A   | GTCCATGCCCC <b>ATTG</b> CCACCCAAGGCACAGCTTGGAGGCTTGAACAGTAGGACATGAAC          | "           |
| rb1UA     | GTCCATGCCCC <b>ATAG</b> CCACCCAAGGCACAGCTTGGAGGCT <b>AGA</b> ACAGTAGGACATGAAC | "           |
| rb1GC     | GTCCATGCCCC <b>AGAG</b> CCACCCAAGGCACAGCTTGGAGGCT <b>CGA</b> ACAGTAGGACATGAAC | "           |
| rb1,2UA   | GTCCATGCCCC <b>ATTG</b> CCACCCAAGGCACAGCTTGGAGG <b>CA</b> AGAACAGTAGGACATGAAC | "           |
| rb1,2GC   | GTCCATGCCCC <b>AGGG</b> CCACCCAAGGCACAGCTTGGAGG <b>CC</b> GAACAGTAGGACATGAAC  | "           |
| A9U       | GTCCATGCCCCAAAGCCACCCAAGGCACAGCT <b>AGG</b> AGGCTTGAACAGTAGGACATGAAC          | "           |
| A9G       | GTCCATGCCCCAAAGCCACCCAAGGCACAGCT <b>CGG</b> AGGCTTGAACAGTAGGACATGAAC          | "           |
| A9C       | GTCCATGCCCCAAAGCCACCCAAGGCACAGCT <b>GGG</b> AGGCTTGAACAGTAGGACATGAAC          | "           |
| A9,10U    | GTCCATGCCCCAAAGCCACCCAAGGCACAG <b>CAAGG</b> AGGCTTGAACAGTAGGACATGAAC          | "           |
| A9,10G    | GTCCATGCCCCAAAGCCACCCAAGGCACAG <b>CCGG</b> AGGCTTGAACAGTAGGACATGAAC           | "           |
| A9,10C    | GTCCATGCCCCAAAGCCACCCAAGGCACAG <b>GGGG</b> AGGCTTGAACAGTAGGACATGAAC           | "           |
| U13A      | GTCCATGCCCCAAAGCCACCCAAGGC <b>ACTG</b> CTTGGAGGCTTGAACAGTAGGACATGAAC          | "           |
| U13G      | GTCCATGCCCCAAAGCCACCCAAGGC <b>CG</b> CTTGGAGGCTTGAACAGTAGGACATGAAC            | "           |
| U13C      | GTCCATGCCCCAAAGCCACCCAAGGC <b>GG</b> CTTGGAGGCTTGAACAGTAGGACATGAAC            | "           |
| U13,15A   | GTCCATGCCCCAAAGCCACCCAAGG <b>CTCTG</b> CTTGGAGGCTTGAACAGTAGGACATGAAC          | "           |
| U13,15G   | GTCCATGCCCCAAAGCCACCCAAGG <b>CCC</b> GCTTGGAGGCTTGAACAGTAGGACATGAAC           | "           |
| U13,15C   | GTCCATGCCCCAAAGCCACCCAAGG <b>GCG</b> GCTTGGAGGCTTGAACAGTAGGACATGAAC           | "           |
| mut       | GTCCATGCCCCAAAGCCACCCAAGG <b>CGCGCAACC</b> AGGCTTGAACAGTAGGACATGAAC           | "           |
| eps-for   | CTGCGATATCATCTCTTGTTCATGTCCTAC  | PCR         |
| eps-rev   | TTCTTTATA <u>AGCTTC</u> GATGTCCATGCCCCA                                       | PCR         |
| b-act-for | CACTGTGCCCATCTACGAG   | RT-PCR      |
| b-act-rev | CCATCTCCTGCTCGAAGTC   | RT-PCR      |

<sup>a)</sup>The template oligonucleotides had anti-sense orientation; mutated residues are shown in bold face. PCR primers eps-for and eps-rev were used for amplification and the products were restricted with Eco RV and Hind III (recognition sites underlined in the sequences) for cloning.