**Table S1. Oligonucleotides used in this study.**

| Name | Sequence(5′->3′) |
|---|---|
| 6 | CTCAACCATAGCAATCATGG |
| 7 | GCGAAAAAGTGGGCACTAAG |
| 505 | GGAGCGGGGCCCCCCATTGCTTTCTTTTTGGTTTTC |
| 506 | GGAGCGCTCGAGTTCTCATTGGAGTAGAAGCAGGTG |
| 507 | GGAGCGCCGCGGTACCTTAACTTCTTCTCCCTCCC |
| 508 | GGAGCGGAGCTCGGAGTACATAGCCCAAGACCAG |
| 509 | CTAAATAAGTGAACTACCCCCCA |
| 510 | CCAATTGGAACAATGGTAGTAGC |
| 511 | CAAGATCGTGATTTCTTGACTAGAT |
| 512 | CGGCAAATTGTTGTTGTTGTTG |
| 549 | GGAGCGGGGCCCCCGACAAACACGTCTAATCAATC |
| 550 | GGAGCGCTCGAGTGAATGGGAGAAGAAAGGATGTC |
| 551 | GGAGCGCCGCGGTGGAGGTGTTGTTTCCCTTTGT |
| 552 | GGAGCGGAGCTCTGCCAGGCGAATTAACTTACG |
| 553 | TCTGCTGCTGTTGTTGTTGTTG |
| 554 | TTTATTGAATGACCTCCTCTCCC |
| 555 | CCTCCTCCACCAAAGATTTCTG |
| 556 | CATCGTTCAATACTCCTCTAAGCC |
| 601 | GGAGCGGGGCCCGCTGCTGCTGCTGCTAATGT |
| 602 | GGAGCGCTCGAGCAAATGATCTTCATGGTGTAGTTG |
| 603 | GGAGCGCCGCGGGTAAGATACACACAGCAACAGCCAT |
| 604 | GGAGCGGAGCTCATACACACAGATTGACTTGCGG |
| 605 | CCTGTATCGTTTATATACCACCAGTG |
| 606 | CACAGCAGACACAACGAAGGG |
| 607 | GGTTAATGGATTCCCACCTCAT |
| 608 | GGTGGTGATTCAACAGAACTCAA |
| 609 | GGAGCGGGGCCCTGAGTGTGATGACGATGAAGG |
| 610 | GGAGCGCTCGAGTAAGTTGTAATGAAATGAAAGCAAC |
| 611 | GGAGCGCCGCGGGCATTGGGGGATGGTTCATT |
| 612 | GGAGCGGAGCTCTTGATCTTGAAAGTCTGGATTATTC |
| 613 | GAGAATGTAGGAAGTGTTGCATC |
| 614 | CAGAACAAATTGCGTTTCATTGC |
| 615 | CCAAGGTGCTACTGCTGCTG |
| 616 | AGGTGGTGGTAATGCAATTCC |
| 625 | GGAGCGGGGCCCCCAAGATGGCTGTTGATAAAGTTC |

| | |
|---|---|
| 626 | GGAGCGCTCGAGGATCTTGATTGATGTTGATCACTTG |
| 627 | GGAGCGCCGCGGCACTGAAACTTAGTAGGCCGG |
| 628 | GGAGCGGAGCTCCTTGAGAGAAAAGGGTTTGG |
| 629 | CATGTCCTGCTTCATTCATTTTG |
| 630 | ACGGGTGTCAAGGTGTGGTG |
| 631 | CCATACAAGGACGCAGAGGATT |
| 632 | CCTCGCTGGTTGACAATTCTT |
| 675 | GGAGCGGGGCCCCCACACTGACAGAGATATCC |
| 676 | GGAGCGCTCGAGCAAACCTTCTTCTTTTAATGC |
| 677 | GGAGCGCCGCGGGGGGGAAATTAAATATAGACTACA |
| 678 | GGAGCGGAGCTCTAAAGCACTAGGGTGAAGTCC |
| 679 | CCCCATCCATTGGAAGTAGATA |
| 680 | ACAGAAATATCAACTCAAAGGT |
| 681 | AATTATACTAGTGCTCCTGCAG |
| 682 | TTTAGTATTACTGGCAGTGGTG |
| 745 | ATGTCAACTTATTCCATACCTTATTATAAT |
| 746 | GGAGCGCTCGAGTCTATTTTTCTTCTTTCACACCACTATTGT |
| 753 | ATGGCAAGTAGCACTTCAACTCGATATCCT |
| 754 | GGAGCGCTCGAGTGATACAAAAGATTCCTATAAACCAAATCC |
| 755 | GGAGCGGGGCCCGGCCATTTAAGCAGCAGCTTAT |
| 756 | AGGATATCGAGTTGAAGTGCTACTTGCCATGGTGTTCCTGAATGT |
| 763 | ATGTCAAGTAATACTCAGGTATATCAGAAA |
| 764 | GGAGCGGGATCCAATGTATTAAATATTTCATTCTTCTTTGAT |
| 765 | GGAGCGGGGCCCTATATATATAAACCAACCAACATTCCAATT |
| 766 | TTTCTGATATACCTGAGTATTACTTGACATGATATATATCGAGAT |
| 747 | GGAGCGGGGCCCGTAATTTCAATCTTATTTAACTATCCAATT |
| 748 | ATTATAATAAGGTATGGAATAAGTTGACATTAATATGGGTTATAT |
| 805 | GGAGCGGGGCCCAATGATTGCGATAGAAAGAG |
| 806 | GGAGCGCTCGAGCTATTTTTCTTCTTTCACACC |
| 929 | GGAGCGGGGCCCACAACAACGATCACAAG |
| 930 | GGAGCGGGATCCTCATTCTTCTTTGATCGAAA |
| 931 | GGAGCGGGGCCCCATAGTGATATTTTTCCGCA |
| 932 | GGAGCGCTCGAGATCATACCATTGTTAAAATG |
| 933 | GGAGCGGGGCCCAGAAAGAGGAGCGGAGCATA |
| 934 | GGAGCGCTCGAGTTACTGAGGAGTTGGTGTTG |
| 935 | GGAGCGGGGCCCCCCTTTGTATTTCTCTTTCC |
| 936 | GGAGCGCTCGAGCCTATAAACCAAATCCAGTAG |

| | |
|---|---|
| 937 | GGAGCGGGGCCCGGTACCACAGGCTATTTATCAC |
| 938 | GGAGCGCTCGAGATTAAAATTCGCCAGCAAATC |
| 1795 | AGATGGCGTGTCCAAAGCTCAA |
| 1796 | AAACAGATGTACATATTACTACG |
| 1797 | CCCACTTTAGTCCCACTCGCTT |
| 1798 | ATTCAATGGAAATCTGTGAGAC |
| 1799 | TGAGTTCCTCGGTACTTCCTTGT |
| 1800 | CCTAGTAGACGGATTTTACGAGCACG |
| 1801 | TATGCCACGGCGATACACTGAGA |
| 1802 | CGACATAGGTTACATCTGAAGTG |
| 1803 | GAAGGAAGAATGCACTGTAGGAT |
| 1804 | GTGTCCTTTCTTTGAAACCAAAAC |
| 1805 | TGCATACTGTACATTATGTAACG |
| 1806 | GAAATAATATATGGTGTGAGTGT |
| 1807 | AAGTGCGAGAGAGAGAACGACAG |
| 1808 | CATCCAATTCAAGTAGTGGCAA |
| 1809 | GAATAATCTATCATCTATCAAATAG |