

Supplemental_Table_S1. Sequences of oligomers used in this study

Name	Sequences (5'→3')	Length (nt)
AS-a^[a]	TTATAAAGCAATGAGACTGATTTCACTGCATGACAGACTTGGTC CTTCATTCCACCGGA	59
AS-b0	GTCTGCACAAATTCGGTTCTACACCCATACCGTCACAGTTAGCT GGTTGT	50
Sp-AS-ab^[b]	GTGCAGACTCCGGTGG	16
Sp-AS-ba	CTTTATAAACAACCAG	16
S-a^[c]	TCCGGTGGAATGAAGGACCAAGTCTGTCATGCACTGAAATCAG TCTCATTGCTTTATAA	59
S-b	ACAACCAGCTAAGACACTGCCATACCCTGTAGAACCGAATTTG TGCAGAC	50
Sp-S-ab	CTGGTTGTTTATAAAG	16
Sp-S-ba	CCACCGGAGTCTGCAC	16
AS-b1	GTCTGCACAAATTCGGTTCTACACCCATACCGTCAGTCTTAGCT GGTTGT	50
AS-b2	GTCTGCACAAATTCGGTTCTACACCCATACCGAGTGTCTTAGCT GGTTGT	50
AS-b3	GTCTGCACAAATTCGGTTCTACACCCATTGGCAGTGTCTTAGC TGGTTGT	50
AS-b4	GTCTGCACAAATTCGGTTCTACAAAAAAAAAAGTGTCTTAGCT GGTTGT	50
AS-b5	GTCTGCACAAATTCGGTTCTACATTTTTTTTTAGTGTCTTAGCTG GTTGT	50
AS-b6	GTCTGCACAAATTCGGTTCTACAAAAAATGGCAGTGTCTTAGCT GGTTGT	50
AS-b7	GTCTGCACAAATTCGGTTCTACATTTTTTTGGCAGTGTCTTAGCT GGTTGT	50
A	CCAGGAATCAGCGGCAAATTCCTCTACTTTCCTCGTCACATCTT	44
B	CGACTCCTGTACTGACAACACTCTCACACGACACATCCGCGTC ACAAAAGGT	52
Sp-AB	ACAGGAGTCGAAGATGTGAC	20
Sp-BA	TGATTCCTGGACCTTTTGTG	20
C	GAAGAACTCATGACATCGAATTGTTGAGCGAAGAATATGACG CCACTCCTTTCATCAA	59
Sp-BC	GAGTTTCTTCACCTTTTGTG	20
Sp-CA	TGATTCCTGGTTGATGAAAG	20
D	AATCGGCAGTCCATTGCGAGAAGCAACTGTACTCAAATTCGGT AAACTCCAACGC	55
E	ACTCAGTACGCATACTTCGTCAGTGTGATGACATCAGGGTTG GTTCAATGTCCGCCGA	59
F	CGGCTACCACAACATTTCTACCAAGGATGGTGAAGTGCAGTTCA CTCCTCTTTG	53
Sp-CD	ACTGCCGATTTTGATGAAAG	20
Sp-DE	CGTACTGAGTGCCTTGGAGT	20
Sp-EF	GTGGTAGCCGTCGGCGGACA	20
Sp-FB	ACAGGAGTCGCAAAGAGGAG	20
A'	AAGATGTGAGCTCCTTTCATCTCCAATTTGCCGCTGATTCCTGG	44
B'	ACCTTTTGTGACGCGGATGTGTCGTGTGAGAGTGTGTCAGTA CAGGAGTCG	52
Sp-A'B'	CACAAAAGGTCCAGGAATCA	20
Sp-B'A'	CTCACATCTTCGACTCCTGT	20
C'	TTGATGAAAGGAGTGGCGTCATATTCTTCGCTCAACAATTCGAT GTCATGAGTTTCTTC	59

Table S1 (Continued)

Name	Sequences (5'→3')	Length (nt)
Sp-A'C'	CTTTCATCAACCAGGAATCA	20
Sp-C'B'	CACAAAAGGTGAAGAAACTC	20
D'	GCGTTGGAGTTTACCGAATTTGAGTTGTCAACGAAGACGC AATGGACTGCCGATT	55
E'	TCGGCGGACATTGAACCAACCCTGATGTCATCAGCAGTG ACGAAGTATGCGTACTGAGT	59
F'	CAAAGAGGAGTGAACCGCAGTCACCATCCTTGGTAGAAA TGTTGTGGTAGCCG	53
Sp-D'C'	CTTTCATCAAAATCGGCAGT	20
Sp-E'D'	ACTCCAACGCACTCAGTACG	20
Sp-F'E'	TGTCCGCCGACGGCTACCAC	20
Sp-B'F'	CTCCTCTTTGCGACTCCTGT	20
SD1^[d]	TAAACAACCAGCTAAGACACTGCCA	25
SD2	ACCGTCACAGTTAGCTGGTTGTTA	25
SD3	TGCCATACCCTGTAGAACCGAATTT	25
SD4	AAATTCGGTTCTACACCCATACCGT	25
SD5	GCACTGAAATCAGTCTCATTGCTTT	25
SD6	AAAGCAATGAGACTGATTTCAGTGC	25
SD7	CGAATTTGTGCAGACTCCGGTGGAA	25
SD8	TTCCACCGGAGTCTGCACAAATTCG	25
S	ATGTGGACTCAATGCGATCTGGTTCTACACCAACAGCATC TTTGGGAAAGCTGGGATCC	59
A15^[a]	TGTTGGTGTAGAACCAGATCGCATTGAGAGGTGTACCTAG GGTGCTTTCCCAAAGATGC	59
A12	TGTTGGTGTAGAACCAGATCGCATTGAGTCCTGTACCTAG GGTGCTTTCCCAAAGATGC	59
Sp-S	GTCCACATGGATCCCA	16
S-1	GTATATCCTCAATGCGATCTGGTTCTACACCAACAGCATCT TTGGGAAAGCCATAGACT	59
A15-1	TGTTGGTGTAGAACCAGATCGCATTGAGCATAGACTGTATA TCGCTTTCCCAAAGATGC	59
Sp-S-1	GGATATACAGTCTATG	16
S-b-1	ACAACCAGCTAACATAGACTGTATATCTGTAGAACCGAATT TGTGCAGAC	50
AS-b0-1	GTCTGCACAAATTCGGTTCTACACATAGACTGTATATCTTA GCTGGTTGT	50
Helper-Ab^[e]	CCCATACCGTCACAG	15
Helper-Sb	GACACTGCCATACCC	15
Helper-Sc^[f]	GTGGAATGAAGGACCAAG	18
Helper-Ac	CTTGGTCCTTCATTCCAC	18
AS-pro^[g]	TCAAAGTGTTCGTCTCACGACTCATCAGGAGGGAACCTA TAGTGAGTCGTATTAATTC	59
S-pro	GAATTAATACGACTCACTATAGGTTCCCTCCTGATGAGTCG TGAGACGAAACACTTTGA	59
Helper-15	CATAGACTGTATATC	15
Helper-12	TAGACTGTATAT	12
Helper-10	AGACTGTATA	10
Helper-8	GACTGTAT	8
Helper-B13	CTGTACTGAACAC	13
S-b-2	ACAACCAGCTAACCTGTACTGAACACGTGTAGAACCGAAT TTGTGCAGAC	50
AS-b0-2	GTCTGCACAAATTCGGTTCTACACCTGTACTGAACACGTT AGCTGGTTGT	50

Table S1 (Continued)

Name	Sequences (5'→3')	Length (nt)
S-b-3	ACAACCACTACACCTGTACTGAACACGTGTAGAACCGAAT TTGTGCAGAC	50
AS-b0-3	GTCTGCACAAATTCGGTTCTACACCTGTACTGAACACGTG TAGTGGTTGT	50
S-b-4	ACAACCAGCTAACCTGTACTGAACACGTTAGCAACCGAAT TTGTGCAGAC	50
AS-b0-4	GTCTGCACAAATTCGGTTGCTAACCTGTACTGAACACGTT AGCTGGTTGT	50
90S-A	AGCTGGGATCCCTCAGAACATAGACTGTATATCTGACCAA CTATGTGGAC	50
90S-B	TCAATGCGATCTGGTTCTACACCAACAGCATCTTTGGGAA	40
Sp-90S-AB	CGCATTGAGTCCACAT	16
Sp-90S-BA	TCCCAGCTTTCCCAA	16
90AS-A	GTCCACATAGTTGGTCACATAGACTGTATATCTTCTGAGGG ATCCCAGCT	50
90AS-B	TTCCCAAAGATGCTGTTGGTGTAGAACCAGATCGCATTGA	40
Sp-90AS-AB	TTTGGGAAAGCTGGGA	16
Sp-90AS-BA	ATGTGGACTCAATGCG	16

Note: ^[a] “AS/A” is the abbreviation form of “Antisense”; ^[b] “Sp” refers to “Splint”; ^[c] “S” refers to “Sense”; ^[d] “SD” indicates “Short DNA”; ^[e] “b” in “Helper-Ab” means bubble; ^[f] “c” in “Helper-Sc” means complementary; ^[g] “Pro” refers to “Promoter”.