

S1 Table. SSOs used for the assay.

Twenty-one LNA-based SSOs, PRO-051, and AVI-4658 for dystrophin exon 51 skipping are shown. Sequences are shown from 5' to 3'. Capital letters with (L); LNA. Small letters: DNA. Capital letters with (M); 2'-OMe RNA. Capital letters with (P); PMO. ^; phosphorothioate backbone. For T_m analysis, SSOs and complementary native RNAs were diluted in 10 mM phosphate buffer (pH 7.2), 10 mM NaCl at 2 μ M. Values represent the mean \pm standard deviation of three independent experiments.

Entry	Target	Sequence	T_m value ($^{\circ}$ C)
01	DMD exon51 -20-8	a [^] T(L) [^] t [^] T(L) [^] t [^] G(L) [^] g [^] G(L) [^] t [^] T(L) [^] t [^] T(L) [^] t	55.1 \pm 0.3
02	DMD exon51 -7+6	t [^] A(L) [^] g [^] G(L) [^] a [^] G(L) [^] c [^] T(L) [^] a [^] A(L) [^] a [^] A(L) [^] t	54.0 \pm 0.7
03	DMD exon51 +7+19	g [^] T(L) [^] a [^] A(L) [^] c [^] A(L) [^] g [^] T(L) [^] c [^] T(L) [^] g [^] A(L) [^] g	64.6 \pm 0.3
04	DMD exon51 +20+32	t [^] T(L) [^] g [^] T(L) [^] g [^] T(L) [^] c [^] A(L) [^] c [^] C(L) [^] a [^] G(L) [^] a	70.0 \pm 0.3
05	DMD exon51 +33+45	t [^] A(L) [^] g [^] T(L) [^] a [^] A(L) [^] c [^] C(L) [^] a [^] C(L) [^] a [^] G(L) [^] g	66.7 \pm 0.2
06	DMD exon51 +46+58	a [^] T(L) [^] g [^] G(L) [^] c [^] A(L) [^] g [^] T(L) [^] t [^] T(L) [^] c [^] C(L) [^] t	70.3 \pm 0.4
07	DMD exon51 +59+71	t [^] T(L) [^] c [^] T(L) [^] a [^] G(L) [^] t [^] T(L) [^] t [^] G(L) [^] g [^] A(L) [^] g	62.3 \pm 0.7
08	DMD exon51 +72+84	a [^] G(L) [^] g [^] A(L) [^] a [^] G(L) [^] a [^] T(L) [^] g [^] G(L) [^] c [^] A(L) [^] t	67.7 \pm 0.4
09	DMD exon51 +85+97	a [^] C(L) [^] c [^] T(L) [^] c [^] C(L) [^] a [^] A(L) [^] c [^] A(L) [^] t [^] C(L) [^] a	68.5 \pm 0.3
10	DMD exon51 +98+110	t [^] G(L) [^] c [^] C(L) [^] a [^] G(L) [^] a [^] G(L) [^] c [^] A(L) [^] g [^] G(L) [^] t	77.9 \pm 0.5
11	DMD exon51 +111+123	c [^] C(L) [^] c [^] G(L) [^] g [^] T(L) [^] t [^] G(L) [^] a [^] A(L) [^] a [^] T(L) [^] c	66.1 \pm 0.5
12	DMD exon51 +124+136	a [^] G(L) [^] t [^] T(L) [^] c [^] T(L) [^] g [^] T(L) [^] c [^] C(L) [^] a [^] A(L) [^] g	69.4 \pm 0.8
13	DMD exon51 +137+149	a [^] A(L) [^] g [^] C(L) [^] c [^] A(L) [^] g [^] T(L) [^] c [^] G(L) [^] g [^] T(L) [^] a	74.8 \pm 0.4

Entry	Target	Sequence	T_m value (°C)
14	DMD exon51 +150+162	g^A(L)^t^C(L)^a^A(L)^g^C(L)^a^ G(L)^a^G(L)^a	64.1 ± 0.6
15	DMD exon51 +163+175	g^A(L)^t^T(L)^t^T(L)^a^T(L)^a^ A(L)^c^T(L)^t	42.7 ± 0.9
16	DMD exon51 +176+188	c^A(L)^t^C(L)^a^C(L)^c^C(L)^t^ C(L)^t^G(L)^t	74.2 ± 0.8
17	DMD exon51 +189+201	c^A(L)^a^G(L)^g^T(L)^c^A(L)^c^ C(L)^c^A(L)^c	73.7 ± 0.5
18	DMD exon51 +202+214	t^C(L)^g^T(L)^t^G(L)^a^T(L)^a^ T(L)^c^C(L)^t	62.9 ± 0.5
19	DMD exon51 +215+227	c^T(L)^t^G(L)^a^T(L)^g^A(L)^t^ C(L)^a^T(L)^c	55.0 ± 0.4
20	DMD exon51 +228-7	c^T(L)^c^A(L)^t^A(L)^c^C(L)^t^ T(L)^c^T(L)^g	64.1 ± 0.2
21	DMD exon51 -8-20	t^T(L)^t^A(L)^t^C(L)^a^T(L)^t^ T(L)^t^T(L)^t	41.7 ± 0.7
22	PRO-051	U(M)^C(M)^A(M)^A(M)^G(M)^G(M)^ A(M)^A(M)^G(M)^A(M)^U(M)^G(M)^ G(M)^C(M)^A(M)^U(M)^U(M)^U(M)^ C(M)^U(M)	-
23	AVI-4658	C(P)T(P)C(P)C(P)A(P)A(P)C(P)A(P)T(P)C(P)A(P)A(P)G(P)G(P)A(P) A(P)G(P)A(P)T(P)G(P)G(P)C(P)A(P)T(P)T(P)T(P)C(P)T(P)A(P)G(P)	-