

Supplemental Table 1. List of PO-MOE-ASOs

Oligo #	Sequence	Length
	Intron 19	
100-86	AGAGAATTACCACAA	15mer
95-81	TTCACAGAGAATTAC	15mer
90-76	AACTCTTCACAGAGA	15mer
85-71	TACCTAACTCTTCAC	15mer
80-66	CATTTTACCTAACTC	15mer
75-61	TACACCATTTTACCT	15mer
70-56	CAGGATACACCATT	15mer
65-51	ATAGCCAGGATACAC	15mer
60-46	TTTAAATAGCCAGGA	15mer
55-41	AAACATTTAAATAGC	15mer
50-36	GTAGAAAACATTTAA	15mer
45-31	ATTAAGTAGAAAACA	15mer
40-26	TTTTAATTAAGTAGA	15mer
35-21	AACATTTTTAATTA	15mer
30-16	GCAGTAACATTTTTA	15mer
25-11	TTAAAGCAGTAACAT	15mer
20-6	ATAAATTAAGCAGT	15mer
15-1	CTTAAATAAATTA	15mer
	Exon 20	
1-15	GTTTCCCCTTGGCAT	15mer
6-20	TCTAAGTTTCCCCTT	15mer

11-25	CAACTTCTAAGTTTC	15mer
16-30	ATGAACAACCTCTAA	15mer
21-35	CGATGATGAACAACCT	15mer
26-40	GGGCTCGATGATGAA	15mer
31-45	AACCAGGGCTCGATG	15mer
35-40	GCTAAAACCAGGGCT	15mer
41-55	TCTGAGCTAAAACCA	15mer
46-60	CCGAATCTGAGCTAA	15mer
51-65	CACTTCCGAATCTGA	15mer
56-70	CCAACCACTCCGAA	15mer
60-74	TTGTCCAACCACTTC	15mer
	Intron 20	
1-15	TACAATGGCGCTTAC	15mer
6-20	AACAGTACAATGGCG	15mer
11-25	TCGCAAACAGTACAA	15mer
16-30	ACTAGTCGCAAACAG	15mer
21-35	AGCTAACTAGTCGCA	15mer
26-40	TCACAAGCTAACTAG	15mer
31-45	ATAAATCACAAGCTA	15mer
36-50	CACACATAAATCACA	15mer
41-55	GTCTTCACACATAAA	15mer
46-60	TTATTGTCTTCACAC	15mer
51-65	AATACTTATTGTCTT	15mer
56-70	AATAAAATACTTATT	15mer

61-75	ATTGTAATAAAATAC	15mer
66-80	TCGAAATTGTAATAA	15mer
71-85	AGTTCTCGAAATTGT	15mer
76-90	TTTTAAGTTCTCGAA	15mer
81-95	CATAATTTTAAGTTC	15mer
86-100	CTTTTCATAATTTTA	15mer
	Microwalk ASOs	
6-25	TCGCAAACAGTACAATGGCG	20mer
7-26	GTCGCAAACAGTACAATGGC	20mer
8-27	AGTCGCAAACAGTACAATGG	20mer
9-28	TAGTCGCAAACAGTACAATG	20mer
10-29	CTAGTCGCAAACAGTACAAT	20mer
11-30	ACTAGTCGCAAACAGTACAA	20mer
12-31	AACTAGTCGCAAACAGTACA	20mer
13-32	TA ACTAGTCGCAAACAGTAC	20mer
14-33	CTAACTAGTCGCAAACAGTA	20mer
15-34	GCTAACTAGTCGCAAACAGT	20mer

Supplemental Table 2. List of PCR primers used to amplify *IKBKAP* genomic fragments

Primer	Sequence
IKAP19F6	GGGGAAGGATCCGCATGGAGTTAATGGTGTGTTTAGCATTACAGG
IKAP21R3	GGGGAATCTAGACTTAGGGTTATGATCATAAATCAGATTGAG
IKAP22R	GGGGAATCTAGATTACTTCAATTCTGTAAAAACAAGTTAATATG

Supplemental Table 3. List of primers used for RT-PCR

a. Primers used to amplify minigene-specific mRNA

Primer	sequence
pCDNAF	TAATACGACTCACTATAGGG
IKAP21R4	CTTAGGGTTATGATCATAAATCAG
IKAP22R2	TTCAATTCTGTAAAAACAAG

b. Primers used to amplify endogenous *IKBKAP*-derived mRNA

Primer	Sequence
IKAPRT19F	GTTCTGCGGAAAGTGGAGAG
IKAPRT21R	CATGCATTCAAATGCCTCTT

c. Human-specific primers used to amplify human *IKBKAP*-transgene-derived mRNA from mice

Primer	Sequence
HsIKAPRT18F	TGTTTTGCCTGAGGGATGC
HsIKAPRT21R	AATGAAGGTTCCACATTTCCA

d. Human-specific primers for *GAPDH* and *ACTB*

Primer	Sequence
GAPDH_F	CAGCCTCAAGATCATCAGCAA
GAPDH_R	GGCCATCCACAGTCTTCTG
ACTB_F	AGAGCTACGAGCTGCCTGAC
ACTB_R	AGCACTGTGTTGGCGTACAG