

Supplementary Table S4. Primers.

Name	Sequence (5'->3')	Purpose
BRAF-X1 NoPROBE F	CTTCAACAAAAATACCACGAGCA	qRT-PCR of mRNAs
BRAF-X1 NoPROBE R	TAGCAGCAGTTTCTTTCCATCAT	
BRAF-X1 Probe3 F	TCCCAGGAAGAAAGAGGAGAG	
BRAF-X1 Probe3 R	TGGTTAGAAGGGCAAAGTTGA	
BRAF-X1 Probe8 F	CCAAGCAGGCTAGATAGTGC	
BRAF-X1 Probe8 R	CTGGAAGAGCATAGGAGGAA	
BRAF-X1-exon18-F	AGTGCATCAGAACCCTCCTT	
BRAF-X1-exon19-R	CTTGAAGGCTGCAAATTCTC	
BRAF-X1-i18-e19_F	AAACCCTGGCTTCCTCATCT	
BRAF-X1-i18-e19_R	GATGCCTCACGGAACAGTTT	
qRT-Renilla-F	GAAAGTGAAGGGCCTGCACTTC	
qRT-Renilla-R	CACTGCTCGTTCTTCAGCACCC	
qRT-Firefly-F	CCCGCCGCCGTTGTTGTTTGG	
qRT-Firefly-R	CGCGCAACTTTTCGCGGTTGT	qRT-PCR of housekeeping mRNAs
RPLP0 F	GGCAGCATCTACAACCCTGA	
RPLP0 R	AACATTGCGGACACCCTCC	
GAPDH F	CGCTCTCTGCTCCTCCTGTT	
GAPDH R	CCATGGTGTCTGAGCGATGT	
HMBS F	TCCAAGCGGAGCCATGTCTG	
HMBS R	AGAATCTTGTCCTGTGGTGGA	
SDHA F	CCACTCGCTATTGCACACC	
SDHA R	CACTCCCCATTCTCCATCA	qRT-PCR of microRNAs
hsa-miR-1246	aatggatttttgagcagg	
hsa-miR-619-5p	gctgggattacagcatgagcc	
hsa-miR-1260a	atcccacctctgccacca	
hsa-miR-7704	cggggtcggcgcgacgtg	
hsa-miR-5096	gtttcaccatgttggtcaggc	
hsa-miR-1260b	atcccaccactgccaccat	
hsa-miR-423-5p	tgaggggcagagagcgagacttt	
hsa-miR-3651	catagcccgtcgctggtacatga	
hsa-miR-5701	ttattgtcacgttctgatt	
hsa-miR-320b	aaaagctgggttgagagggcaa	
hsa-mir-3180-1,hsa-miR-3180-3p	tggggcggagcttccggaggcc	
hsa-mir-3180-4,hsa-miR-3180	tggggcggagcttccggag	
hsa-miR-125b-1-3p	acgggttaggctcttgggagct	
hsa-miR-320a	aaaagctgggttgagagggcga	
hsa-miR-4792	cggtgagcgctcgctggc	
hsa-miR-146a-5p	tgagaactgaattccatgggtt	

hsa-miR-181b-5p	aacattcattgctgtcggtgggt	qRT-PCR of housekeeping RNAs
hsa-let-7e-5p	tgaggtaggaggtgtatagtt	
hsa-let-7i-5p	tgaggtagtagttgtgctgtt	
hsa-let-7b-5p	tgaggtagtaggtgtgtggtt	
SNO-110 F	TGATGTCTCCATGTCTCTGAGCAA	
SNO-110 R	TGAATCGAGCACCAGTTACGC	
SNO-44 F	CCTGGATGATGATAAGC	
SNO-44 R	TGAATCGAGCACCAGTTACGC	
SNO-55 F	AGCCAACCTTGGAGAGCTGAGC	
SNO-55 R	TGAATCGAGCACCAGTTACGC	MRE deletion
X1_Del423_F	CAGTCAACTTAACCACCAGATCAATTTGTGG	
X1_Del423_R	TCTGGTGGTTAAGTTGACTGGCAGACTTTC	
X1_Del619_F	CATACAAGTCTGCCCAGGAAGAAAGAGGAGAGAC	
X1_Del619_R	GTCTCTCCTCTTTCTTCTGGGCAGACTTGTATG	
X1_Del1246_F	TCCTGACCTCCTGGCCTTTTGTTTCCTTGC	
X1_Del1246_R	AAAAGGCCAGGAGGTCAGGAAGAAGATGCA	
X1_Del1260a_F	ATGGAGGCTGGTAGATGTGTCTTGGTATGGAG	
X1_Del1260a_R	ACACATCTACCAGCCTCCATTAAATAAAAATA	
X1_Del3180_F	CCTCCGGGGTTTTGTTTCCTTGCTCACTGAGG	
X1_Del3180_R	AGGAAACAAAACCCCGGAGGTCAGGAAGAAGA	
X1_Del3651_F	AGGGCACAAAATAGTATCTAACTAAACCCCCACA	
X1_Del3651_R	TAGTTAGATACTATTTTGTGCCCTGGACAAAGTA	
X1_Del7704_F	CATCTTCTTCTGGGTCTCTGGCCTTTTGTTTCC	
X1_Del7704_R	GGCCAGAGACCCAGGAAGAAGATGCAGCATGCCC	
X1_Del-let-7b/e_F	GTGCTGGCACACATTGCCTTTTGGGTCCAGC	3'UTR cloning
X1_Del-let-7b/e_R	GCTGGACCCAAAAGGCAATGTGTGCCAGCAC	
X1 3'UTR SpeIF	catACTAGTAGAATTTGCAGCCTTCAAGTAGCCA	
X1 3'UTR HindIIIR	gcaAAGCTTACCATTAATTGAAAAATTAT	
Ref-3'UTR SpeIF	catACTAGTGCGTTTCCTGTCCACTGAAAC	
Ref-3'UTR HindIIIR	gcaAAGCTTTGGTTCACCTTAAA	
SpeI_MEK1_UTR_F	catACTAGTTAAGTGTTTGGGAAGCAACAAAGAG	sensor cloning
MluI_MEK1_UTR_R	gcaACGCGTTTTTAATCTAAAAAGGAATGGGCCT	
3180_sensor_SS	CTAGTACCCCGCCTCGAAGGCCTCCGGA	
3180_sensor_AS	AGCTTCCGGAGGCCTTCGAGGCGGGGT	
3651_sensor_SS	CTAGTTCATGTACCAGCGACCGGGCTATGA	
3651_sensor_AS	AGCTTCATAGCCCGGTCGCTGGTACATGAA	BRAFV600E-X1 CDS cloning
SpeI-BRAFV600E-X1-F	gcaACTAGTGCCACCATGGCGGCGCTGAGCG	
SalI-BRAFV600E-X1-R	gcaGTCGACCTACTTGAAGGCTGCAATTCTC	