

	Annotation	Forward/ Reverse	Primer	Region (Bp)	Genbank Accession
<i>Promoter</i>					
<i>hypermethylation</i>					
	SPRY1TV1_BS_1	F	ATTGTTATTTTAAAAGTGGGAAG	-441 to -141	NM_005841
	SPRY1TV1_BS_1	R	AAATCTCACTTTATCTCCAACTAAA	-441 to -141	NM_005841
	SPRY1TV1_BS_2	F	TTATAGAGAGAGGGGAGAAAGAATTTGTT	-67 to +220	NM_005841
	SPRY1TV1_BS_2	R	CCACCAAAATTTCTAAAAATCATAAA	-67 to +220	NM_005841
	SPRY1TV2_BS-1	F	TTAAGGAAATTTGTTTTAGGTTTT	-119 to + 125	NM_199327
	SPRY1TV2_BS-1	R	AAATTACAAATTACTTTTCAAACACATTTA	-119 to + 125	NM_199327
SPRY1_shRNA	shSPRY1_#1_S	sense	GATCCCGGGTGCAGATGTAAGAAGTTTCAAGAGAAGTCTTACATCTGCACCCTTTTTGGAAA		
	shSPRY1_#1_AS	antisense	AGCTTTTCCAAAAGGGTGCAGATGTAAGAAGTTCTCTTGAAGTTCTTACATCTGCACCCTGG		
	shSPRY1_#2_S	sense	GATCCCGAGAGAGATTTCAGCCTACTTTCAAGAGAAGTAGGCTGAATCTCTCTTTTTGGAAA		
	shSPRY1_#2_AS	antisense	AGCTTTTCCAAAAGAGAGAGATTTCAGCCTACTTCTTGAAGTAGGCTGAATCTCTCTCGG		
<i>Cloning</i>					
	T7a	F	TAATACGACTCACTATAGGGCG		
	SP6a	R	GCCAAGCTATTTAGGTGACA		
<i>Sequencing</i>					
HRAS	HRAS Ex2F	F	GTGGGTTTGCCTTCAGATG	Exon 2	NG_007666.1
	HRAS Ex2R	R	TCTAGAGGAAGCAGGAGACAGG		NG_007666.1
	HRAS Ex3F	F	ATGAGAGGTACCAGGGAGAGG	Exon 3	NG_007666.1
	HRAS Ex3R	R	ACATGCGCAGAGAGGACAG		NG_007666.1
NRAS	NRAS Ex2F	F	TGAGGCCGATATTAATCC	Exon 2	NG_007572
	NRAS Ex2R	R	TCCGACAAGTGAGAGAGACAGG		NG_007572
	NRAS Ex3F	F	GAGGGACAAACCAGATAGGC	Exon 3	NG_007572
	NRAS Ex3R	R	GGTAACCTCATTCCCCATAAAG		NG_007572
KRAS	KRAS Ex2F	F	TTAACCTTATGTGTGACATGTTCTAA	Exon 2	NG_007524
	KRAS Ex2R	R	AGAATGGTCTGCACCAAGTAA		NG_007524
	KRAS Ex3F	F	TGCACTGTAATAATCCAGACTGTG	Exon 3	NG_007524
	KRAS Ex3R	R	TGCATGGCATTAGCAAAGAC		NG_007524
BRAF	BRAF Ex11F	F	TCCTCTCAGGCATAAGGTAA	Exon 11	NG_007873
	BRAF Ex11R	R	CGAACAGTGAATATTTCCCTTGAT	Exon 11	NG_007873
	BRAF Ex15F	F	TCATAATGCTTGCTCTGATAGGA	Exon 15	NG_007873
	BRAF Ex15R	R	TTTCTAGTAACTCAGCAGCATCTCA	Exon 15	NG_007873
SPRY1	SPRY1 Ex1B	F	CCTTTCCTTCTCCGTC AAC	Exon 1B	NM_005841
	SPRY1 Ex1B	R	TCAAGCAGTGACAGTCTGGAC	Exon 1B	NM_005841
	SPRY1 Ex1B	F	AATCCTGTCCAGGTTTTCG	Exon 1B	NM_199327
	SPRY1 Ex1B	R	TAGCAGTGGGAATGCTACCG	Exon 1B	NM_199327
	SPRY1 Ex2	F	TCATTACTAGGCGGTTAGGC	Exon 2	NM_005841
	SPRY1 Ex2	R	GATTGCCCTTTCAGACCTATG	Exon 2	NM_005841
	SPRY1 Ex2	F	TTGAGCAGATCAACCAGCAC	Exon 2	NM_005841
	SPRY1 Ex2	R	GGGAAGAGAAGGTGGGAAAC	Exon 2	NM_005841
<i>Northern blot probes</i>					
	SPRY1-F1	F	TTATTCAGTGCGGATTGCAG		NM_005841
	SPRY1-R1	R	AAAGAAGGCTGCTGGATCAC		NM_005841
	RAS		Full length cDNA		NM_002524.3