Name	Description	Sequence (5'->3')	Strand on template	Length	Start	Stop	Tm	Product length
APCforward	APC and APC(1) amplification forward primer	GAATGGAGGTGCTGCCGGACTCGGAAATGG	plus	30	9	39	70,9	
APCrev1	APC whole orf amplification reverse primer	GCATGTATCTCCATTGTTTATGGAAGCCTGG	minus	31	10701	10670	90	10692
APCrev2	APC(1) amplification reverse primer	TCCTCCTTGAGCCTCATCTGTACTTCTGC	minus	29	5167	5138	68	5158
up2 APC	APC(2) amplification forward primer	GGCACAGTCAGGTGAATTTG	plus	20	5091	5110	57,3	
rev2 APC	APC(2) amplification reverse primer	GGCTTCCAGAACAAAAACCCTC	minus	22	8731	8710	60,2	3640
up KRAS	KRAS amplification forward primer	CATTTCGGACTGGGAGCGAG	plus	20	85	104	61,4	
down KRAS	KRAS amplification reverse primer	CTAACAGTCTGCATGGAGCAG	minus	21	872	852	59,8	787
up EPH Receptor B6	EPHRB6 amplification forward primer	GAGTCTTGCAAAAGCTGCAG	plus	20	711	730	57,3	
down EPH Receptor B6	EPHRB6 amplification reverse primer	CTGAGTCACGGGTATCGTC	minus	19	3876	3858	58,8	3165
up PIK3CA	PIK3CA amplification forward primer	CGTTTCTGCTTTGGGACAAC	plus	20	81	100	57,3	
down PI3CA	PIK3CA amplification reverse primer	GCAGTGTGGAATCCAGAGTG	minus	20	3408	3390	62,7	3327
up TP53	TP53 amplification forward primer	CAGACTGCCTTCCGGGTC	plus	18	227	245	60,5	
down TP53	TP53 amplification reverse primer	CTGTCAGTGGGGAACAAGAAG	minus	21	1463	1441	59,8	1236
up FBXW7	FBXW7 amplification forward primer	CTAGCCAAGGTCCAAGAAGTAGC	plus	23	111	133	62,4	
down FBXW7	FBXW7 amplification reverse primer	GGCAGGGAGTATATCGTCTACAC	minus	23	2324	2302	62,4	2213
up SMAD4	SMAD4 amplification forward primer	CCTTGCAACGTTAGCTGTTG	plus	20	441	460	57,3	
down SMAD4	SMAD4 amplification reverse primer	GTCCACCATCCTGATAAGGTTAAGG	minus	25	2241	2217	62,9	1800
up 1 CSMD3	CSMD3(1) amplification forward primer	ACAACAGCAACAACTCCACTGC	plus	22	99	120	62,7	
down 1 CSMD3	CSMD3(1) amplification reverse primer	CCACCAAGACAGATGATCTCTG	minus	22	3823	3812	60,2	3724
up 2 CSMD3	CSMD3(2) amplification forward primer	GACCTTCTCATGCTCTTCGG	plus	20	3771	3790	59,3	
down 2 CSMD3	CSMD3(2) amplification reverse primer	GGCAGGACAGAGCACTTGAC	minus	20	7533	7514	61,4	3762
up 3 CSMD3	CSMD3(3) amplification forward primer	GAACGACTGCAGATGGATGG	plus	20	7480	7499	62,7	
down 3 CSMD3	CSMD3(3) amplification reverse primer	CTGATAGTGGATGCTCCTCC	minus	20	11591	11571	59,3	4111
up TNN	TNN amplification forward primer	GGTCTGCTCCCTGTCTTTCC	plus	20	92	109	61,4	
down TNN	TNN amplification reverse primer	TGTCTCCTGCGAGGACTGC	minus	19	4044	4026	60,9	3952
up EPH A3	EPH A3 amplification forward primer	GAGATATGCTCCTCTCACTGCC	plus	22	189	2110	62,1	
down EPH A3	EPH A3 amplification reverse primer	TTCCGTCCAGAAGCACTTCC	minus	20	3207	3189	59,3	3018
up 1 NAV3	NAV3(1) amplification forward primer	GTCTACCAGACTGAGGTTAGAAGC	plus	24	112	135	62,7	
down 1 NAV3	NAV3(1) amplification reverse primer	GCTGGGCATTACTGAGGAAG	minus	20	4004	3985	62,7	3892
up 2 NAV3	NAV3(2) amplification forward primer	CTGCCTCTGCACCTAATACTGAG	plus	23	3952	3974	62,4	
down 2 NAV3	NAV3(2) amplification reverse primer	CACCCTCTAGAGGGTAGATTCAAG	minus	24	7271	7248	62,7	3319
up 1 LAMA1	LAMA1(1) amplification forward primer	CTTTCTCCCCAGACCCACCGAG	plus	22	57	78	65,8	
down 1 LAMA1	LAMA1(1) amplification reverse primer	TGAGTGTGTGGGGCAGTCACAGG	minus	22	3105	3084	63,9	3048
up 2 LAMA1	LAMA1(2) amplification forward primer	GTGTCACTGTGTCCCAGGTGTGG	plus	23	3020	2958	65,9	
down 2 LAMA1	LAMA1(2) amplification reverse primer	GGTTTGCCTGGTAATTTCAACAGC	minus	24	6064	6041	61	3044
up 3 LAMA1	LAMA1(3) amplification forward primer	GCAGGAAGCTTCCAGGTATTGC	plus	22	5970	5991	62,1	
down 3 LAMA1	LAMA1(3) amplification reverse primer	GCAATGATTCCAACTGAGGATTCTGC	minus	26	9355	9330	63,2	3385
up C10orf.137	C10orf.137 amplification forward primer	GTATCGCCTGCCCTGGATCG	plus	20	269	288	63,9	
down C10orf.137	C10orf.137 amplification reverse primer	TCTGGGACACGGCTCTGTGC	minus	20	3922	3911	63,4	3653
down MAP2K7	MAP2K7 amplification reverse primer	CTCTCTGTCCTCAGTCCTAGGTG	minus	23	1456	1434	59,3	
down MAP2K7	MAP2K7 amplification reverse primer	CTCTCTGTCCTCAGTCCTAGGTG	minus	23	1456	1434	59,3	1393
up PTEN	PTEN amplification forward primer	GCTTCTGCCATCTCTCTCCTCC	plus	22	983	1004	63,9	
down PTEN	PTEN amplification reverse primer	TCTGACACAATGTCCTATTGCC	minus	22	2343	2322	58,3	1360
up ADAMTSL3	ADAMTSL3 amplification forward primer	GCTACAACTGAGACCGGAGG	plus	21	192	212	59,3	
down ADAMTSL3	ADAMTSL3 amplification reverse primer	CTTCACAGCAGCATCATGACC	minus	21	5322	5312	59,8	5130
up GUCY1A2	GUCY1A2 amplification forward primer	CGCTTAACGTTGTCGCTTGC	plus	20	293	313	59,3	
down GUCY1A2	GUCY1A2 amplification reverse primer	GAGGAGTCTTTGATCTGTAGCAGG	minus	24	2615	2592	62,7	2322
up SMAD2	SMAD2 amplification forward primer	AGAGGCTGTTTTCCTAGCGTGG	plus	22	206	227	62,1	
down SMAD2	SMAD2 amplification reverse primer	CCATAGGGACCACACACAATGC	minus	22	1729	1707	62,1	1523
up OR51E1	OR51E1 amplification forward primer	GGTGCTGGTCACAGTTCAGC	plus	20	119	138	62,1	
down OR51E1	OR51E1 amplification reverse primer	CTGAATCAGAGGACTCTGAATGG	minus	23	1147	1125	60,6	1028
up TCF7L2	TCF7L2 amplification forward primer	CCAAAATTGCTGCTGGTGGG	plus	20	478	497	59,3	
down TCF7L2	TCF7L2 amplification reverse primer	AACAAAACCTTTCAAGGTGGGG	minus	22	2387	2366	58,3	1909
up MAP2K7	MAP2K7 amplification forward primer	GAAGATGGCGGCGTCCTC	plus	18	63	79	60,5	
CAN01 TNN for	TNN amplification forward primer	TCTGCTCCCTGTCTTTCCAAGG	plus	22	92	113	62,1	
CAN02 TNN rev	TNN amplification reverse primer	TCTCCTGCGAGGACTGCTCAC	minus	21	4044	4026	63,7	3950
CAN03 EPHA3 for	EPH A3 amplification forward primer	TGGAGATATGCTCCTCTCACTGC	plus	23	187	209	62,4	
CAN04 EPHA3 rev	EPH A3 amplification reverse primer	TCTGTCTGCAGGATGATGCTACG	minus	23	3247	3225	62,4	3060
CAN05 MAP2K7 for	MAP2K7 amplification forward primer	TCCTCCCTGGAACAGAAGCTGTC	plus	23	75	97	64,2	1381
CAN06 ADAMTSL3 for	ADAMTSL3 amplification forward primer	ATTCCGCACGAGGTGTTGACG	plus	21	86	106	62,1	
CAN07 ADAMTSL3 sv rev	ADAMTSL3 splice variant amplification reverse primer	TTTGGTGTGGATGTCCTTCTG	minus	22			58,4	1154
CAN08 GUCY1A2 for	GUCY1A2 amplification forward primer	TTAACGTTGTCGCTTGCCGGTCC	plus	23	296	318	64,2	2319
CAN09 OR51E1 for	OR51E1 amplification forward primer	ACATTCCTTCCATACGGTTGAGC	plus	23	84	106	60,6	1064
CAN10 TCF7L2 for	TCF7L2 amplification forward primer	TCTTCCAAAATTGCTGCTGGTGG	plus	23	474	492	60,6	
CAN11 TCF7L2 rev	TCF7L2 amplification reverse primer	ACATCAACTAATGTAGCCACATGG	minus	24	2432	2409	62,1	1958
CAN12 qRT TNN for	semi quantitative RT-PCR forward primer	ATATGGCCACTGTCTCCTGG	Plus	20	2809	2828	59.95	364
CAN13 qRT TNN rev	semi quantitative RT-PCR reverse primer	CCCAGCTGCATCTCCTTAAC	Minus	20	3172	3153	59.84	
CAN14 qRT NAV3 for	semi quantitative RT-PCR forward primer	TTCAGCAAATGCTCACCTTG	Plus	20	4949	4968	59.99	412
CAN15 qRT NAV3 rev	semi quantitative RT-PCR reverse primer	ATGTGATGAAGGAGGCTTGG	Minus	20	5360	5341	60.07	
CAN16 qRT EPHA3 for	semi quantitative RT-PCR forward primer	CCACCCCAATATCATTCGAC	Plus	20	2259	2278	60.01	329
CAN17 qRT EPHA3 rev	semi quantitative RT-PCR reverse primer	TTGGGATCTTCCCTCCTCTT	Minus	20	2587	2568	60.01	
CAN18 qRT ADAMTSL3 for	semi quantitative RT-PCR forward primer	ACAGGGAGTGTGTCCCAAAG	Plus	20	3687	3706	60.00	394
CAN19 qRT ADAMTSL3 rev	semi quantitative RT-PCR reverse primer	TGACAGGTGCCTCTGCATAC	Minus	20	4080	4061	59.86	
CAN20 qRT GUCY1A2 for	semi quantitative RT-PCR forward primer	TGGAAGACCGATTCAGATGAG	Plus	21	2211	2231	60.20	357
CAN21 qRT GUCY1A2 rev	semi quantitative RT-PCR reverse primer	AACATGGTGCCGATGTTGTA	Minus	20	2567	2548	59.85	
CAN22 qRT OR51E1 for	semi quantitative RT-PCR forward primer	TTCCATACGGTTGAGCCTCT	Plus	20	91	110	59.69	382
CAN23 qRT OR51E1 rev	semi quantitative RT-PCR reverse primer	AGGAGTGGATGGCAAACATC	Minus	20	472	453	59.93	
CAN24 APC all splvar for	APC(1) amplification all known spliced variant, forward primer	GGCTGCAGCTTCATATGATCAGTTGTT	Plus	27	88	114	58.08	5107
CAN25 APC exonanal rev	APC analysis of first 15 exons reverse primer	CCACAAAGTTCCACATGCATTACTGAC	Minus	27	2248	2222	57.11	2053
CAN26 bACT for	beta ACTIN human amplification forward primer	AGCCTCGCCTTTGCCGATCC	Plus	20	34	53	59.49	
CAN27 bACT rev	beta ACTIN human amplification reverse primer	CCCAGGGAGACCAAAAGCCTTCA	Minus	23	1735	1713	58.49	1701
CAN28 BRAF for	BRAF amplification forward primer	GTTATAAGATGGCGGCGCTGAG	Plus	22	54	75	56.01	
CAN29 BRAF rev	BRAF amplification reverse primer	TTTGTTGCTACTCTCCTGAACTCTC	Minus	25	2400	2376	54.56	2347
up-1247-SMAD4 WT	PCR typing expression SMAD4 WT in tumor cell lines	GCTTTTGTTTGGGTCAACTCTCCAATGT	Plus	28			64	629
up-1247-SMAD4 Mut	PCR typing expression SMAD4 Mut in tumor cell lines	GCTTTTGTTTGGGTCAACTCTCCAATGC	Plus	28			65	629
up1869-SMAD4 WT	PCR typing expression SMAD4 WT in tumor cell lines	CGTGGACCCTTCTGGAGGAGATC	Plus	23			66	640
up1869-SMAD4 Mut	PCR typing expression SMAD4 Mut in tumor cell lines	CGTGGACCCTTCTGGAGGAGATT	Plus	23			64	640
up1869-TP53 WT	PCR typing expression TP53 WT in tumor cell lines	CACATGACGGAGGTTGTGAGGCG	Plus	23			66	729
up1869-TP53 Mut	PCR typing expression TP53 Mut in tumor cell lines	CACATGACGGAGGTTGTGAGGCA	Plus	23			64	729