

Table S3 - PCR primers and reaction conditions

Amplicon Name	Ann. Temp.	Enhancer*	Reaction times*	No. of cycles*
BAX_exon1	65			35x
BAX_exon2&3	65			35x
BAX_exon4	64			
BAX_exon5	61			
BAX_exon6	64			
BAX_exon7	65			35x
BAX_upstr_b	65			35x
BCL10_alt_upstr	62			35x
BCL10_upstr_b	58		10s ann	45x
BCL2_upstr_a	54	2x	5s ann, 10s ext	36x
BCL2_upstr_b	50	2x	5s ann, 10 s ext	36x
BCL6_exon1	63			
BCL6_exon10a	56			35x
BCL6_exon10b	54			35x
BCL6_exon2	63			
BCL6_exon3	65		10s ann	35x
BCL6_exon4	64			35x
BCL6_exon5a	62			
BCL6_exon5b	61			
BCL6_exon6	61			
BCL6_exon7	65			35x
BCL6_exon8	61		15s ann	
BCL6_exon9	65			35x
BCL6_upstr_a	59			35x
BCL6_upstr_b	59			35x
BECN1_exon1&2	61			
BECN1_exon10	59			35x
BECN1_exon11	59			
BECN1_exon12a	52			
BECN1_exon12b	52			
BECN1_exon3	61			
BECN1_exon5&6&7	64			35x
BECN1_exon8	62			
BECN1_exon9	61			35x
BECN1_upstr_a	56			35x
BECN1_upstr_b	54		15s ann	35x
BIM_upstr_a	57			35x
BIM_upstr_b	57			35x
BMI_exon10a	57			
BMI_exon10b	57			
BMI_exon10c	56			35x
BMI_exon10d	54			35x
BMI_exon1a	59		15s ann	
BMI_exon1b	50	2x	5s ann, 10 s ext	36x
BMI_exon2&3	56			
BMI_exon4&5	52			
BMI_exon6&7	59			
BMI_exon8&9	56			
BMI1_up_a	56			47x
BMI1_upstr_b	58	2x	5s ann, 10s ext	36x
FAS_alt_upstr_a	50			35x
FAS_alt_upstr_b	56			35x

FAS_upstr_a	60		10s ann	40×
FAS_upstr_b	50		10s ann	37×
MCL1_exon1a	63			
MCL1_exon1b	64			35×
MCL1_exon2	61			
MCL1_exon3b	65			35×
MCL1_upstr_a	64			35×
MCL1_upstr_b	63			35×
MDM2_alt_upstr	63			35×
MDM2_exon11a	61			35×
MDM2_exon11b	59			35×
MDM2_exon2	59			35×
MDM2_exon4	59			35×
MDM2_exon6&7	56			
MDM2_exon8	59			
MDM2_upstr_a	64			35×
MDM2_upstr_b	61			35×
miR15_upstr_A	50		10s ann	40×
miR15_upstr_B	51		10s ann	37×
miR155_loop	50	2×		36×
miR155_upstr	50	2×		
miR17_upstr_A	52			
miR17_upstr_B	51			36×
PMAIP1_exon1&2	65			35×
PMAIP1_exon3a	56			35×
PMAIP1_exon3b	54			35×
PMAIP1_exon3c	59			35×
PMAIP1_upstr_a	64			35×
PMAIP1_upstr_b	64			35×
PUMA_exon1	64			35×
PUMA_exon2	65			35×
PUMA_exon3	63			
PUMA_exon4a	64			35×
PUMA_exon4b	64			35×
PUMA_upstr_b	64			35×
RFWD2_alt_upstr_a	54			35×
RFWD2_alt_upstr_b	53			35×
RFWD2_upstr_a	56		10s ann	37×
RFWD2_upstr_b	61			35×
SKP2_alt_upstr	62			35×
SKP2_upstr_a	61			35×
SKP2_upstr_b	65			35×

*Unless conditions are specified in above table, all conditions are as described in Methods.

Amplicon Name	Forward primer
BAX_exon1	TGTAAAACGACGGCCAGTatgctcattggacagtcacg
BAX_exon2&3	TGTAAAACGACGGCCAGTctgctaggggtcccagaagtcc
BAX_exon4	TGTAAAACGACGGCCAGTtcttttagtgtgcggtggatg
BAX_exon5	TGTAAAACGACGGCCAGTcttcgggtcttcatcctgag
BAX_exon6	TGTAAAACGACGGCCAGTtaggggaggcaaagaattgac
BAX_exon7	TGTAAAACGACGGCCAGTaatgcccgttcatctcagtc
BAX_upstr_b	TGTAAAACGACGGCCAGTGCTTCAGCCCGGGAAT
BCL10_alt_upstr	TGTAAAACGACGGCCAGTGCTTCTTACACAGCGCCATA
BCL10_upstr_b	TGTAAAACGACGGCCAGTGCCTCATCCTACTTCCCTGT
BCL2_upstr_a	TGTAAAACGACGGCCAGTTCCGCCTCCGTCGTC
BCL2_upstr_b	TGTAAAACGACGGCCAGTGCTGCCAGCGAAGGTG
BCL6_exon1	TGTAAAACGACGGCCAGTcgacgtcacagaggaggag
BCL6_exon10a	TGTAAAACGACGGCCAGTtgagcaatgacatctttcttgg
BCL6_exon10b	TGTAAAACGACGGCCAGTcaagacttcagtatggtgtcaaagaga
BCL6_exon2	TGTAAAACGACGGCCAGTggcaagctgcaactatcaaa
BCL6_exon3	TGTAAAACGACGGCCAGTgctaagccacctgctctgat
BCL6_exon4	TGTAAAACGACGGCCAGTtaggggctgagtatcagtgct
BCL6_exon5a	TGTAAAACGACGGCCAGTaatggtcactggaaggtcatct
BCL6_exon5b	TGTAAAACGACGGCCAGTgagggcctcaaacctgct
BCL6_exon6	TGTAAAACGACGGCCAGTgcctacacacagggaggaga
BCL6_exon7	TGTAAAACGACGGCCAGTcggccttagagccctacct
BCL6_exon8	TGTAAAACGACGGCCAGTGGAAAACACAAGTGGCCTCA
BCL6_exon9	TGTAAAACGACGGCCAGTCTGGCTGTGTGCTAATGAGG
BCL6_upstr_a	TGTAAAACGACGGCCAGTCCCCCAACTCAGCTTCAA
BCL6_upstr_b	TGTAAAACGACGGCCAGTCGCTTGAGGGATTAGATAGGG
BECN1_exon1&2	TGTAAAACGACGGCCAGTtagcctccccattctctgc
BECN1_exon10	TGTAAAACGACGGCCAGTccttggccagaatgaagagt
BECN1_exon11	TGTAAAACGACGGCCAGTtgggaacaatctctggaagc
BECN1_exon12a	TGTAAAACGACGGCCAGTcctgccccgaacttacttaac
BECN1_exon12b	TGTAAAACGACGGCCAGTccagagctacaacatgccatc
BECN1_exon3	TGTAAAACGACGGCCAGTtcagatgccctcctgcttt
BECN1_exon5&6&7	TGTAAAACGACGGCCAGTagttaggtggaggaagcctct
BECN1_exon8	TGTAAAACGACGGCCAGTcgttcatagtgtggtgagagaga
BECN1_exon9	TGTAAAACGACGGCCAGTggtgagagtgggaaatgtcaa
BECN1_upstr_a	TGTAAAACGACGGCCAGTCAAGGGGAGATGGGAAATG
BECN1_upstr_b	TGTAAAACGACGGCCAGTCGGGATTTAACCATTTTG
BIM_upstr_a	TGTAAAACGACGGCCAGTAACAATCGCCTCGCCTTT
BIM_upstr_b	TGTAAAACGACGGCCAGTTCAGAGAAGTTCTGTCTGATTTCG
BMI_exon10a	TGTAAAACGACGGCCAGTcctggagaagggtagtagca
BMI_exon10b	TGTAAAACGACGGCCAGTtttggctataaaaagatggactaca
BMI_exon10c	TGTAAAACGACGGCCAGTgacataaacaggaaacagttattgatga
BMI_exon10d	TGTAAAACGACGGCCAGTaaagagttgcttttacagttaacaatg
BMI_exon1a	TGTAAAACGACGGCCAGTggcctgactacaccgacact
BMI_exon1b	TGTAAAACGACGGCCAGTCAGCCCCGAGAATAAAAC
BMI_exon2&3	TGTAAAACGACGGCCAGTttgtgattactagatgatctccattc
BMI_exon4&5	TGTAAAACGACGGCCAGTtagacagcatcacaatcaagtaaaa
BMI_exon6&7	TGTAAAACGACGGCCAGTttgactttaccacttccatcctc
BMI_exon8&9	TGTAAAACGACGGCCAGTgaggttggtcacctccaattt
BMI1_up_a	TGTAAAACGACGGCCAGTCGATTTGAACATGAGGTATTTTC
BMI1_upstr_b	TGTAAAACGACGGCCAGTGCTTCTTACACAGCGCCATA
FAS_alt_upstr_a	TGTAAAACGACGGCCAGTAGTCTACTGAAAGGTGGAACAGA
FAS_alt_upstr_b	TGTAAAACGACGGCCAGTCTAAGAGCTATCTACCGTTCCA

FAS_upstr_a	TGTA AACGACGGCCAGTGAAGAAGGAGAAAGGCAGGA
FAS_upstr_b	TGTA AACGACGGCCAGTCCAACCCCTTTGACATTAGCA
MCL1_exon1a	TGTA AACGACGGCCAGTcgcccctttccccttt
MCL1_exon1b	TGTA AACGACGGCCAGTccccgtccaccctcac
MCL1_exon2	TGTA AACGACGGCCAGTgaatcttgcgccggttttag
MCL1_exon3b	TGTA AACGACGGCCAGTgcactaagaatgccagtgacc
MCL1_upstr_a	TGTA AACGACGGCCAGTCCCTGCCCACAAAACATT
MCL1_upstr_b	TGTA AACGACGGCCAGTGAGATGGGAGAAGCAAGCAG
MDM2_alt_upstr	TGTA AACGACGGCCAGTCGGATGGTGAGGAGCAG
MDM2_exon11a	TGTA AACGACGGCCAGTtagcattcctgtgactgagca
MDM2_exon11b	TGTA AACGACGGCCAGTcaattcaa atgattgtgctaactt
MDM2_exon2	TGTA AACGACGGCCAGTtgatgtat tttccacagatgtttc
MDM2_exon4	TGTA AACGACGGCCAGTcctggttgtttaccctattca
MDM2_exon6&7	TGTA AACGACGGCCAGTaaattgcataagggtttgtgtt
MDM2_exon8	TGTA AACGACGGCCAGTggtactcaaacagctcaat tttc
MDM2_upstr_a	TGTA AACGACGGCCAGTGAAGCGGGAGAAGGGAAG
MDM2_upstr_b	TGTA AACGACGGCCAGTCGGCCTACCCAAAGTGA
miR15_upstr_A	TGTA AACGACGGCCAGTTATTTCCGGTCCATTTACCA
miR15_upstr_B	TGTA AACGACGGCCAGTtttctcatctcagggtagcaaaa
miR155_loop	TGTA AACGACGGCCAGTTGTA CTGTGTCAGAATGCAAGC
miR155_upstr	TGTA AACGACGGCCAGTCATACGTTTCTTTTGA ACTTAGTCAC
miR17_upstr_A	TGTA AACGACGGCCAGTCCCGGTCTTCTGTTCTCTAAA
miR17_upstr_B	TGTA AACGACGGCCAGTCAAATTTTTCTTGCTATTAAAGTTGA
PMAIP1_exon1&2	TGTA AACGACGGCCAGTCTACGTCACCAGGGAAGTT
PMAIP1_exon3a	TGTA AACGACGGCCAGTTGGGCGTATTAGGTTTTGCT
PMAIP1_exon3b	TGTA AACGACGGCCAGTGCTGGGAGAAACAGTTTCAG
PMAIP1_exon3c	TGTA AACGACGGCCAGTAGTGTGCATCCTACAAAAGTGA
PMAIP1_upstr_a	TGTA AACGACGGCCAGTCAAGCAACTGGGACGACAG
PMAIP1_upstr_b	TGTA AACGACGGCCAGTTCAAACACGATGTTCTTTCTGG
PUMA_exon1	TGTA AACGACGGCCAGTggcagtcaagtttgagaagtctg
PUMA_exon2	TGTA AACGACGGCCAGTcatgcacacacacctccact
PUMA_exon3	TGTA AACGACGGCCAGTgcgatgggatcactagaaatg
PUMA_exon4a	TGTA AACGACGGCCAGTcccactcccatcaccatact
PUMA_exon4b	TGTA AACGACGGCCAGTctctcggtgctccttcactc
PUMA_upstr_b	TGTA AACGACGGCCAGTGGCGGATCCCCGAGGT
RFWD2_alt_upstr_a	TGTA AACGACGGCCAGTTGCCATTAGACTTTACATTCTTG
RFWD2_alt_upstr_b	TGTA AACGACGGCCAGTCGTAGACCTGAATTTGAATTTTGA
RFWD2_upstr_a	TGTA AACGACGGCCAGTTTTCCGACTGGTGTACCTT
RFWD2_upstr_b	TGTA AACGACGGCCAGTAAAAAGCCTACCAGAAATTGTATATT
SKP2_alt_upstr	TGTA AACGACGGCCAGTCGAGCAGCTCTGCAGTTAAT
SKP2_upstr_a	TGTA AACGACGGCCAGTTTTCACTACAGAGCGAATCATTTT
SKP2_upstr_b	TGTA AACGACGGCCAGTCGTCCACAGACCCAATTCTT

Amplicon Name	Reverse primer
BAX_exon1	CAGGAAACAGCTATGACcccctcagtgcttggagat
BAX_exon2&3	CAGGAAACAGCTATGACcttaggggaggaggagaatgc
BAX_exon4	CAGGAAACAGCTATGACatccccaggctctcacagat
BAX_exon5	CAGGAAACAGCTATGACccaatacggagtaatgccatc
BAX_exon6	CAGGAAACAGCTATGACgaacgggcattaaagagctg
BAX_exon7	CAGGAAACAGCTATGACgacagggcctgctctcct
BAX_upstr_b	CAGGAAACAGCTATGACGGACCCGTCATCACC
BCL10_alt_upstr	CAGGAAACAGCTATGACCAAACGCACTCATAACACACA
BCL10_upstr_b	CAGGAAACAGCTATGACCCGATTTACTGAACCATCCTT
BCL2_upstr_a	CAGGAAACAGCTATGACGGCTGCGCACCCCTTTC
BCL2_upstr_b	CAGGAAACAGCTATGACGAGGATTTCCAGATCGATTCC
BCL6_exon1	CAGGAAACAGCTATGACttggcaagagcggaaaaa
BCL6_exon10a	CAGGAAACAGCTATGACtgcagcctttaacgcagttt
BCL6_exon10b	CAGGAAACAGCTATGACcctccaagagctttttccac
BCL6_exon2	CAGGAAACAGCTATGACcagtggcaaagtccacagaga
BCL6_exon3	CAGGAAACAGCTATGACcgtcatcccagatgcagtaa
BCL6_exon4	CAGGAAACAGCTATGACaaggtttctgatcggggact
BCL6_exon5a	CAGGAAACAGCTATGACaaatgcagggcaatctcatc
BCL6_exon5b	CAGGAAACAGCTATGACcaggcaagaaaagaagaaacg
BCL6_exon6	CAGGAAACAGCTATGACtgaggactgctccaatcaga
BCL6_exon7	CAGGAAACAGCTATGACaggatcctctccctgtcctg
BCL6_exon8	CAGGAAACAGCTATGACACTTTCTCTGCCCGCTCT
BCL6_exon9	CAGGAAACAGCTATGACGTGGTTGCCCCACTGTGT
BCL6_upstr_a	CAGGAAACAGCTATGACTTTTGCTTTTGCAAGTTTGT
BCL6_upstr_b	CAGGAAACAGCTATGACTTCGAGGTCCTCATAAGCAGA
BECN1_exon1&2	CAGGAAACAGCTATGACgccaccataagaattatcacca
BECN1_exon10	CAGGAAACAGCTATGACgccaatatcaaagcaaacca
BECN1_exon11	CAGGAAACAGCTATGACtgcctgcttcaattctgttcaa
BECN1_exon12a	CAGGAAACAGCTATGACtttttcagagaagaaagggaaa
BECN1_exon12b	CAGGAAACAGCTATGACcagaatttccacatacctgcat
BECN1_exon3	CAGGAAACAGCTATGACgccaagtagcctgcagaaac
BECN1_exon5&6&7	CAGGAAACAGCTATGACggaagccatctcctcctg
BECN1_exon8	CAGGAAACAGCTATGACaccaggcttagtggccaac
BECN1_exon9	CAGGAAACAGCTATGACtggacagcagtagcagggtg
BECN1_upstr_a	CAGGAAACAGCTATGACGCAAGGCTCCATCTCAGAAC
BECN1_upstr_b	CAGGAAACAGCTATGACCCCGATGCTCTTCACCTC
BIM_upstr_a	CAGGAAACAGCTATGACAAGTGCGTCACAATAGAGTTTG
BIM_upstr_b	CAGGAAACAGCTATGACACCTTCTCGGTCACACTCAG
BMI_exon10a	CAGGAAACAGCTATGACgaaaccatttcccatctttcc
BMI_exon10b	CAGGAAACAGCTATGACgggtatctgcaaaggtcgaa
BMI_exon10c	CAGGAAACAGCTATGACttttaaattcaacatgcttgctc
BMI_exon10d	CAGGAAACAGCTATGACgccacatcaactataagtacgcaa
BMI_exon1a	CAGGAAACAGCTATGACCCACGCTCGTCTCATGC
BMI_exon1b	CAGGAAACAGCTATGACagcgggggaactaaaacgtg
BMI_exon2&3	CAGGAAACAGCTATGACgaaataaagaggggttgcttca
BMI_exon4&5	CAGGAAACAGCTATGACgaggatggaagtggtaaagtcaa
BMI_exon6&7	CAGGAAACAGCTATGACgggcaacacaatccctgata
BMI_exon8&9	CAGGAAACAGCTATGACtggagtggaaccattctacaaa
BMI1_up_a	CAGGAAACAGCTATGACTCGCATCGTTTCTCCGTGT
BMI1_upstr_b	CAGGAAACAGCTATGACCAAACGCACTCATAACACACA
FAS_alt_upstr_a	CAGGAAACAGCTATGACTTCTGGCCAATTTTCTTT
FAS_alt_upstr_b	CAGGAAACAGCTATGACGTCAGGAGGATGGGAAGGA

FAS_upstr_a	CAGGAAACAGCTATGACTATGTGCTTTGTGGGGAGAC
FAS_upstr_b	CAGGAAACAGCTATGACGGCTTGTCTCTGTTCCACCT
MCL1_exon1a	CAGGAAACAGCTATGACgggcgcgaagaaaagcag
MCL1_exon1b	CAGGAAACAGCTATGACgactcgtttcggtttccaac
MCL1_exon2	CAGGAAACAGCTATGACccttttagatatccccacctctc
MCL1_exon3b	CAGGAAACAGCTATGACtgagtattgccaatcagagc
MCL1_upstr_a	CAGGAAACAGCTATGACGCTCCACGTGCTACCCTAAA
MCL1_upstr_b	CAGGAAACAGCTATGACGAAGCGGAAGTGAGAAGTGG
MDM2_alt_upstr	CAGGAAACAGCTATGACGCACCATCAGTAGGTACAGACA
MDM2_exon11a	CAGGAAACAGCTATGACcaggttgtctaaattcctagggtta
MDM2_exon11b	CAGGAAACAGCTATGACgcgacagagagactcatctcaa
MDM2_exon2	CAGGAAACAGCTATGACgagccatgctacaattgaggt
MDM2_exon4	CAGGAAACAGCTATGACggttagaggtgaactgaaatgtagc
MDM2_exon6&7	CAGGAAACAGCTATGACggaacaatttaattaagtctaaaagc
MDM2_exon8	CAGGAAACAGCTATGACtcttattaggactgccagga
MDM2_upstr_a	CAGGAAACAGCTATGACAACGAAGATGCTGGTTACCG
MDM2_upstr_b	CAGGAAACAGCTATGACGCTTCTTGCTCCATCTTTCC
miR15_upstr_A	CAGGAAACAGCTATGACTCTTAGAGTTGGATATCATTTGATACAGT
miR15_upstr_B	CAGGAAACAGCTATGACTgcataattatTTTTaaggagattttaag
miR155_loop	CAGGAAACAGCTATGACTTCTGTTAATGATAAAAAACAAACATGG
miR155_upstr	CAGGAAACAGCTATGACAAACCGCTCTTCGGAGTTTT
miR17_upstr_A	CAGGAAACAGCTATGACGCAAATCCGTAATAATGAGTTAGTTT
miR17_upstr_B	CAGGAAACAGCTATGACTGACTGGTCACAATCTTCAGTT
PMAIP1_exon1&2	CAGGAAACAGCTATGACCTGGAAGCGCTGGGAGTC
PMAIP1_exon3a	CAGGAAACAGCTATGACTTTTCAGTGTTCAGAAATGAGTTTTT
PMAIP1_exon3b	CAGGAAACAGCTATGACTCACCAATGCATATATGGAACTTT
PMAIP1_exon3c	CAGGAAACAGCTATGACCAGAGGATGTCTGCTGATGG
PMAIP1_upstr_a	CAGGAAACAGCTATGACACCTTAATCACCGCAGAGGA
PMAIP1_upstr_b	CAGGAAACAGCTATGACGATGCTGGGATCGGGTGT
PUMA_exon1	CAGGAAACAGCTATGACcacctgtgacagcttcttgct
PUMA_exon2	CAGGAAACAGCTATGACcagttcctccgagctctccag
PUMA_exon3	CAGGAAACAGCTATGACagctgcccacatctgg
PUMA_exon4a	CAGGAAACAGCTATGACctggagcaaccggcaaac
PUMA_exon4b	CAGGAAACAGCTATGACctctcccaccactcacaag
PUMA_upstr_b	CAGGAAACAGCTATGACACCCCATGCCAAATTTTCAT
RFWD2_alt_upstr_a	CAGGAAACAGCTATGACTTTCAACAACAAAGTGAAATAGGT
RFWD2_alt_upstr_b	CAGGAAACAGCTATGACGTGGCCACATTTTGTCTATGT
RFWD2_upstr_a	CAGGAAACAGCTATGACCAATAATGGGAAAACAGATTTTG
RFWD2_upstr_b	CAGGAAACAGCTATGACAGAGGGCAGGCCGTCTTAAT
SKP2_alt_upstr	CAGGAAACAGCTATGACGCCTGACAGCAGTTCAGAAG
SKP2_upstr_a	CAGGAAACAGCTATGACAGGTGAGAGGCTGCGAACT
SKP2_upstr_b	CAGGAAACAGCTATGACGCAGCCAGACCCGCTAAG