

Supplementary Table S2 List of pyrosequencing assays

Assay ^a	Primer ^b	Sequence 5' to 3'
ADCY8_a1	Forward Reverse Sequencing	AGTGGAGGTTAGGGTAAAGTTT Biotin-TAACCCCTCCATAACTATAACCCCCATTAA GGGAGGAGGTTTTAATTATT
ADRA1A_a1	Forward Reverse Sequencing	GGAATTGTATGTTGTAAGGAGTTT Biotin-ACAACCCTAACCAACCCTAAAA TGTAAGGAGTTTTTTGGA
AKT1_01		Qiagen Hs_BMP3_01 PM00112595
AKT3_01		Qiagen Hs_AKT2_01 PM00086044
ALK_a5	Forward Reverse Sequencing	AGTTGGGGGAAAGTAAGAGA Biotin-AAAACTCTAAACAATCCTTAATACC GGGGAAAGTAAGAGAT
ALK_a7	Forward Reverse Sequencing	GGTAGAGGTGGTAGTAGTTGGTATT Biotin-CCCTCCTCACCCATCATCA GTGGTAGTAGTTGGTATTT
APC_a1	Forward Reverse Sequencing	GGTATGGGGTTAGGGTTAGGTAGG Biotin-AATCCCACAACACCTCCATTCTATCT AGAGAAGTAGTTGTGTAAT
APC_a3	Forward Reverse Sequencing	GGGTTAGGGTTAGGTAGGTTGT Biotin-AATTACACA ACTACTTCTCTCC GGTTAGGGTTAGGTAGGTT
BCAR3_03		Qiagen HS_BCAR3_03 PM00088326
BMP2_01		Qiagen HS_BMP2_01 PM00196763
BMP3_01		Qiagen Hs_BMP3_01 PM00112595
BMP3_02		Qiagen HS_BMP3_02 PM00112602
BMP4_01		Qiagen HS_BMP4_01 PM00056525
BMP7_01		Qiagen Hs_BMP7_01 PM00079345
CCNA1_01		Qiagen Hs_CCNA1_01 PM00162708

CDH8_01		Qiagen HS_CDH8_01 PM00062944
CDH13_yh1	Forward Reverse Sequencing	Biotin-AGTTTAAAGAAGTAAATGGGATGTTAT TCTACCTCCCAACCAACCAACTTC ACCAAAACCAATAACTTTAC
CDKN2A_01		Qiagen Hs_CDKN2A_01 PM00039900
CDKN2A_02		Qiagen Hs_CDKN2A_02 PM00039907
Chr3_a1	Forward Reverse Sequencing	Biotin-AAGAGATGGGGTTTTAGGAAGTG CACCATTCAACATCTAACAAAACTTAAA AATCATTTTTACTTTAAAAATAATA
Chr3_a2	Forward Reverse Sequencing	GAGTTTTTATGAATGGGATTGGTGTTT Biotin-AAACCTCTAACACCTACAACACTAC GAGTTTATTTATTTTTTTTGTATG
Chr7_a1	Forward Reverse Sequencing	TGTTTTTGTGTTTTGGTTTTGTAA Biotin-AATAACCAATACAAAACACTTCCCTTACT GTTAAGTTTTTTGTTTTGGG
Chr7_a2	Forward Reverse Sequencing	TTGAGGGAGTAAGGGAAAGTG Biotin-ACTCTTAAAATTCCTAACACAACACTATC GAGTAAGGGAAAGTGT
Chr7_a3	Forward Reverse Sequencing	GGAGGAGTTTTTGGAGTAGG Biotin-ACCCTCAACACCAACAAA TGTTAGGAAATTTAAGAGTATT
Chr7_a4	Forward Reverse Sequencing	GTGTTGAGGGTTTTGAGATTAT Biotin-ATCCTCCTAACTAAATAAACTACCTCACT TTGTTTTAGAGTTTTTAAG
Chr8_a1	Forward Reverse Sequencing	TTGGTTTAGAAGTTTTTTATTGAGTATT Biotin-ATCCCCTAATCCACCAAATTTTCATA AGTTTTTTATTGAGTATTTTGTG
CMTM1		Qiagen Hs_CMTM1_01 PM00061215
DAPK1_01		Qiagen Hs_DAPK1_01 PM00041258
EPHA5_01		Qiagen Hs_EPHA5_01 PM00018683
EPHB1_01		Qiagen Hs_EPHB1_01 PM00015183
EPHB1_02		Qiagen_Hs_EPHB1_02 PM00015190

EPHB3_04		Qiagen Hs_EPHB3_04 PM00109641
EPHB3_05		Qiagen Hs_EPHB3_05 PM00109648
FHIT_01		Qiagen Hs_FHIT_01 PM00017129
FOXA1_a1	Forward Reverse Sequencing	GGATAATAAAGTTATTTGTTGGGAAATAGA Biotin-CTTACACCCCAAACCTCAAAAACCTAATTC ATGTTTATAGGTGATTTGTTTTA
FOXA1_a2	Forward Reverse Sequencing	GAGGGGGTTTTGGAAGTT Biotin-CTAACCCCAAACAATACAAAACACTTT GGTTTTGGAAGTTAGT
FOXA1_a3	Forward Reverse Sequencing	ATTTTTTTGGGGTTATTTTTTTGTGAG Biotin- ACCCAAACCTAAATTCATATTACTAAC TTTTTTTTGTAGTGTAAAGATAT
FOXB2_a2	Forward Reverse Sequencing	GAGTATATATAGAGTTGGTAGAATAGTT Biotin- ATAATAAAAATAAAAATACCCTCCC AGAATAGTTTGAGTTATAATTTTTT
FOXB2_02		Qiagen Hs_CDKN2A_02 PM00039907
FOXE1_01		Qiagen Hs_FOXE1_01 PM00041013
GSTP1_a1	Forward Reverse Sequencing	GAGTTAGAGGGATTTTTTAGAAGAG CAATTAACCCCATACTAAAACTCT GGAGAGGGGAGGGATTATTTTTATA
HIF1A_01		Qiagen Hs_HIF1A PM00056147
IRS1_05		Qiagen Hs_IRS1_05 PM00011711
KDM6B_a2	Forward Reverse Sequencing	TAGGGAGTTTTGAGGATAAGTAGGG Biotin-CACATACCCTTCTATATTTACCTTCATATT GAAGGTAGATAGATTTTTAAATTTT
KDM6B_a3	Forward Reverse Sequencing	GTTATAGGGAGTTTTGAGGATAAGT Biotin-ACATACCCTTCTATATTTACCTTCATATT GAGGAGTGTAGTAAGGA
L1-MET_a1	Forward Reverse Sequencing	ATTGTTTGGTATTTTTTAGTGAGATGAA Biotin-ATCATAATCCTCCAACCACTAC ATTTTAGATGGAAATGTAGAAA
LINE 1_a1sup	Forward Reverse Sequencing	TTGGAAGAGTAAGGGTTAGG Biotin-ACCCTCTAAACCAAATATAAAATATAAT GAAAATCGGGTATTTT

MGMT		Qiagen Hs_MGMT_01 PM00149702
NEFL	Forward Reverse Sequencing	AGTTGGAGTAGTAGAATAAGGT Biotin-ATTACCCAAAATCTCCTCCAACCCCTTC TTGGTGTGAGTTAGAAGTAT
OGG1_03		Qiagen Hs_OGG1_03 PM00013776
RARB_a1	Forward Reverse Sequencing	TTGTTAAAGGGGGGATTAGAAT Biotin-ACCCAAACAAACCCTACT GTTTGAGGATTGGGAT
RASSF1_01		Qiagen Hs_RASSF1_01 PM00013292
RASSF1_02		Qiagen Hs_RASSF1_02 PM00013300
RASSF1_03		Qiagen Hs_RASSF1_03 PM00013307
SNAI1_01		Qiagen Hs_SNAI1_01 PM00196588
TCF3_01		Qiagen Hs_TCF3_01 PM00072219
TSC2_02		Qiagen Hs_TSC2_02 PM00172886
TWIST 1_01		Qiagen Hs_TWIST_01_ PM00030121
VEGFA_01		Qiagen Hs_VEGFA_01 PM00121968
VHL_01		Qiagen Hs_VHL_01 PM00014504
ZNF582_01		Qiagen Hs_ZNF582_01 PM00071925

^aAssays were designed in-house (alphanumeric suffix) or acquired commercially from QIAGEN (numerical suffix).

^bTypes of in-house designed primers.