

Supplemental Table Primers used for PCR amplification and sequencing.

PDX CRC ID	Gene Symbol	Primer	Sequence 5'--3'
CRC269 and CRC269-R	FAT4	Forward	GTGTCTGTGGTTGAGAATGC
		Reverse	TGGACCGGGTAGAAGACAGG
	KMT2C	Forward	TGAAGAGTGGCTCCAGGAGA
		Reverse	CCTGTTCTAGCTGTTTCTGAACC
	PIK3CA (for c.2176)	Forward	ACAGTTAGCCAGAGGTTTGG
		Reverse	AAACAACCTGCCCCACTGC
	PIK3CA (for c.3140)	Forward	AGCTATTCGACAGCATGCCA
		Reverse	GGTCTTGCCTGCTGAGAGT
	KMT2D (for c.2438)	Forward	CTATGCGCTGTGCCTGAGG
		Reverse	CTTCTCAAGCTCAGGGGAC
	KMT2D (for c.7411)	Forward	GTTACCCCTCGTTCAGTC
		Reverse	CTTGGACCTTGGCATGGAG
	FOXA1	Forward	GGCTTCTTACTCGTGTCT
		Reverse	CTACTGCGCCGGACTCAG
	SYNE1	Forward	TGTTGTGGGGTTTCATTCGT
		Reverse	TGCATTTTCCCTGGCTCACA
	ZFR2	Forward	GGGGCTTGGTGTGTGTTTG
		Reverse	GTAGGTAGCCATGGTGGTGG
ADCY2	Forward	GGAGGCTCTTAGAAACCAGAA	
	Reverse	CCTGGTGGGATGTGAAAAGT	
CRC293	ARID1A	Forward	GCCCTGAACAATAACCTCACG
		Reverse	GGTTGCCCGAAGCCGTAG
	TP53 (for c.626)	Forward	GCTGGGGCTGGAGAGACG
		Reverse	GCACCACCACACTATGTCGA
	TP53 (for c.743)	Forward	TGGCTCTGACTGTACCACCA
		Reverse	CTG GAG TCT TCC AGT GTG ATG
	SYNE2	Forward	TTGGCGTCTCTCAGAACAGC
		Reverse	CGATGTTTACAGCTGGAACA
	EP300	Forward	TGGTGATTCCAGTCTGAATGAGT
		Reverse	ACAAATCCGGAGCTAGCCAC
	CDKN2A	Forward	GCTTCCTTCCGTCATGCC
		Reverse	TGGAAGCTCTCAGGGTACAA
MTOR	Forward	TGATGAACTTCGAAGCTGTGC	
	Reverse	CTCAGTGACCTTCTTCTGCA	
CRC382	ATM	Forward	CTCAAACCTATTGGGTGGATTTGT
		Reverse	TCGTTTGCAGAAAGTGTGCA
	TP53 (for c.610)	Forward	GCTGGGGCTGGAGAGACG
		Reverse	GCACCACCACACTATGTCGA
	TP53 (for c.25)	Forward	TGCTGGATCCCCACTTTTCC
		Reverse	AGACAAGAGCAGAAAAGTCAGTC
	KLF5	Forward	CGTTGTCACAGGTGAAAAGCC
		Reverse	GTGGTCAGAGCGGAGAAG
	MERTK	Forward	TGTGTGTGTATGTGTGTGTGT
		Reverse	ATGCTGCAATTCCTGAACGG
	MYH10	Forward	CTGTGTACGTATGTAATAGGGGCA
		Reverse	CCACTTGAAAATCCAAAATATGCTTCT
	NUP98	Forward	GCCTAGTCCCTCGTGAAAAGTC
		Reverse	GCATCAAGAAATGTGACTCACGG
SETD2	Forward	GCCTATGTGGATCCCAGCAA	
	Reverse	GCACTGGCAAGACAGCAAC	