

MOMA cfDNA validated ddPCR assays

Gene	Nucleotide position & Change	Amino Acid Change	Chr	Position (hg19)	Position (hg38)	Amplicon size (nt)	Fluorophor (MUT/WT)	Limit of detection (25ng input)*
APC	c.637C>T	p.R213*	5	112116592	112780895	<80	FAM/VIC	LOD=0,001172
APC	c.637C>T	p.R213*	5	112116592	112780895	<80	FAM/VIC	LOD=0,000996
APC	c.646C>T	p.R216*	5	112128143	112792446	<80	FAM/VIC	LOD=0,00149
APC	c.673G>T	p.Q225*	5	112128170	112792473	<80	FAM/VIC	LOD=0,000267
APC	c.1495C>T	p.R499*	5	112162891	112827194	86	FAM/VIC	LOD=0,000751
APC	c.2626C>T	p.R876*	5	112173917	112838220	<80	FAM/VIC	LOD=0,000309
APC	c.3147G>A	p.W1049*	5	112174438	112838741	104	FAM/VIC	LOD=0,000911
APC	c.3340C>T	p.R1114*	5	112174631	112838934	108	FAM/VIC	LOD=0,00068
APC	c.3850G>T	p.E1284*	5	112175141	112839444	<80	FAM/VIC	LOD=0,00023
APC	c.3880C>T	p.Q1294*	5	112175171	112839474	<80	FAM/VIC	LOD=0,000911
APC	c.3916G>T	p.E1306*	5	112175207	112839510	<80	FAM/VIC	LOD=0,000231
APC	c.3925G>T	p.E1309*	5	112175216	112839519	<80	FAM/VIC	LOD=0,0000597
APC	c.3980C>G	p.S1327*	5	112175271	112839574	<80	FAM/VIC	LOD=0
APC	c.4037C>G	p.S1346*	5	112175328	112839631	<80	FAM/VIC	LOD=0
APC	c.4057G>T	p.E153*	5	112175348	112839651	<80	FAM/VIC	LOD=0
APC	c.4120G>T	p.E1374*	5	112175411	112839714	<80	FAM/VIC	LOD=0,0000645
APC	c.4175C>A	p.S1392*	5	112175466	112839769	69	FAM/VIC	LOD=0
APC	c.4221delT	p.S1407fs*8	5	112175512	112839815	<80	FAM/VIC	LOD=0
APC	c.4339C>T	p.Q1447*	5	112175630	112839933	<80	FAM/VIC	LOD=0,0006061
APC	c.4348C>T	p.R1450*	5	112175639	112839942	<80	FAM/VIC	LOD=0,00103
APC	c.4393_4394delAG	p.S1465fs*3	5	112175684	112839987	90	FAM/VIC	LOD=0,0011
APC	c.3546delA	p.K1182fs	5	112174833	112839136	<80	FAM/VIC	LOD=0,0003098
APC	c.694C>T	p.Arg232*	5	112128191	112792494	<80	FAM/VIC	LOD=0,000898
BRAF	c.1799T>A	p.V600E	7	140453136	140753336	<80	FAM/VIC	LOD=0
EIF1B	c.335G>T	p.G112V	3	40353498	40312007	<80	FAM/VIC	LOD=0,00029
KRAS	c.34G>C	p.G12R	12	25398285	25245351	75	FAM/VIC	LOD=0,0000321

KRAS	c.34G>A	p.G12S	12	25398285	25245351	75	FAM/VIC	LOD=0,00101
KRAS	c.34G>T	p.G12C	12	25398285	25245351	75	FAM/VIC	LOD=0,000035
KRAS	c.35G>A	p.G12D	12	25398284	25245350	75	FAM/VIC	LOD=0,000039
KRAS	c.35G>C	p.G12A	12	25398284	25245350	75	FAM/VIC	LOD=0,000104
KRAS	c.35G>T	p.G12V	12	25398284	25245350	75	FAM/VIC	LOD = 0,000046194
KRAS	c.38G>A	p.G12D	12	25398281	25245347	<80	FAM/VIC	LOD = 0,000807
KRAS	c.183A>C	p.Q61H	12	25380275	25227341	<80	FAM/VIC	LOD=0,00032
KRAS	c.436G>A	p.A146V	12	25378562	25225628	<80	FAM/VIC	LOD=0,000515
NRAS	c.37G>C	p.G13R	1	115258745	114716124	<80	FAM/VIC	LOD=0
NRAS	c.181C>A	p.Q61K	1	115256530	114713909	83	FAM/VIC	LOD=0,000028
NRAS	c.182A>T	p.Q61L	1	115256529	114713908	<80	FAM/VIC	LOD=0
PIK3CA	c.1624G>A	p.E542K	3	178936082	179218294	<80	FAM/VIC	LOD=0,000723
PIK3CA	c.1633G>A	p.E545K	3	178936091	179218303	<80	FAM/VIC	LOD=0,00026
PIK3CA	c.3140A>G	p.H1047R	3	178952085	179234297	<80	FAM/VIC	LOD=0,0000842
SMAD4	c.1523G>C	p.G508A	18	48604701	51078331	<80	FAM/VIC	LOD=0,000075
TP53	c.281C>A	p.Ser94*	17	7579406	7676088	<80	FAM/VIC	LOD=0,000215
TP53	c.375+5G>T	N/A*	17	7579307	7675989	<80	FAM/VIC	LOD=0
TP53	c.375+5G>C	N/A*	17	7579307	7675989	<80	FAM/VIC	LOD=0
TP53	c.469G>T	p.V157F	17	7578461	7675143	77	FAM/VIC	LOD=0,0000318
TP53	c.527G>T	p.C176F	17	7578403	7675085	<80	FAM/VIC	LOD=0,000127
TP53	c.584A>G	p.I195T	17	7578265	7674947	<110	FAM/VIC	LOD=0,000123
TP53	c.586C>T	p.R196*	17	7578263	7674945	<80	FAM/VIC	LOD=0,000647
TP53	c.637C>T	p.R213*	17	7578212	7674894	<80	FAM/VIC	LOD=0,000514
TP53	c.645T>G	p.S215R	17	7578204	7674886	<80	FAM/VIC	LOD=0
TP53	c.733G>A	p.G245S	17	7577548	7674230	104	FAM/VIC	LOD=0,0006869
TP53	c.742C>T	p.R248W	17	7577539	7674221	85	FAM/VIC	LOD=0,00066
TP53	c.743G>A	p.R248Q	17	7577538	7674220	<80	FAM/VIC	LOD=0,00058
TP53	c.772G>T	p.E258*	17	7577509	7674191	<80	FAM/VIC	LOD=0,0000605
TP53	c.775G>T	p.D259Y	17	7577506	7674188	<80	FAM/VIC	LOD=0,00004089
TP53	c.817C>T	p.R273C	17	7577121	7673803	64	FAM/VIC	LOD=0,001167
TP53	c.818G>A	p.R273H	17	7577120	7673802	<80	FAM/VIC	LOD=0,00107
TP53	c.838A>G	p.R280G	17	7577100	7673782	<80	FAM/VIC	LOD=0
TP53	c.844C>T	p.R282W	17	7577094	7673776	<80	FAM/VIC	LOD=0,000956

TP53	c.916C>T	p.R306*	17	7577022	7673704	<80	FAM/VIC	LOD=0,000209
TP53	c.919+1G>A	Splice donor variant	17	7577018	7673700	<80	FAM/VIC	LOD=0,000775
TP53	c.919+2T>G	Splice donor variant	17	7577017	7673699	<80	FAM/VIC	LOD=0,0000481

*N/A= Not applicable

*May be subject to change from batch to batch. A positive results always requires 3 or more positive droplets.