

Supplementary Table 2. List of the genes examined by MS-MLPA analysis

Number	MMR Genes	Chromosomal position	Reference sequence	Amplicon size
1	<i>MSH2</i>	2p21	NM_000251.1	184 [^] , 274 [^] , 400 [^]
2	<i>MSH6</i>	2p21	NM_000179.2	160 [^] , 208 [^] , 301 [^]
3	<i>MLH1</i>	3p22.2	NM_000249.3	166 [^] , 167 [*] , 196 [^] , 238 [^] , 265 [^] , 292 [^] , 463 [*]
4	<i>MSH3</i>	5q14.1	NM_002439.3	220 [^]
5	<i>PMS2</i>	7p22.1	NM_000535.5	142 [^] , 154 [^] , 339 [^]
6	<i>MGMT</i>	10q26.3	NM_002412.3	172 [^] , 191 ^{**} , 202 [^] , 214 [^] , 346 ^{**} , 391 [^]
7	<i>MLH3</i>	14q24.3	NM_014381.2	355 [^]
Number	Other Genes	Chromosomal position	Reference sequence	Amplicon size
8	<i>TP73</i>	1p36.3	NM_005427.2	400 [*] , 238 ^{**}
9	<i>CASP8</i>	2q33-q34	NM_001080125.1	265 [*]
10	<i>FHIT</i>	3p14.2	NM_002012	409 [*]
11	<i>RASSF1</i>	3p21.3	NM_007182	328 [*] , 382 [*]
12	<i>RARB</i>	3p24	NM_000965	193 [*] , 453 ^{**}
13	<i>VHL</i>	3p25.3	NM_000551	355 [*] , 265 ^{**}
14	<i>APC</i>	5q21-q22	NM_000038	148 [*] , 337 ^{**}
15	<i>ESR1</i>	6q24-q27	NM_000125	373 [*] , 301 ^{**}
16	<i>PAX5</i>	9p13.2	NM_016734	208 ^{**}
17	<i>CDKN2A (p14)</i>	9p21	NM_058195.2	161 [*]
18	<i>CDKN2A (p16)</i>	9p21	NM_058195	427 ^{**}
19	<i>DAPK1</i>	9q34.1	NM_004938	346 [*]
20	<i>PTEN</i>	10q23	NM_000314	292 [*] , 183 ^{**} , 373 ^{**}
21	<i>CD44</i>	11p13	NM_000610	319 [*] , 462 ^{**}
22	<i>WT1</i>	11p13	NM_000378	247 ^{**}
23	<i>PAX6</i>	11p13	NM_001604	409 ^{**}
24	<i>GSTP1</i>	11q13.2	NM_000852	454 [*] , 273 ^{**}
25	<i>ATM</i>	11q22-q23	NM_000051	184 [*] , 160 ^{**} , 418 ^{**}
26	<i>CADMI</i>	11q23.2	NM_014333	427 [*] , 364 ^{**}
27	<i>CDKN1B</i>	12p13.1-p12	NM_004064	274 [*]
28	<i>CHFR</i>	12q24.33	NM_001161344	238 [*] , 292 ^{**}
29	<i>BRCA2</i>	13q12-q13	NM_000059	301 [*] , 418 [*] , 148 ^{**}
30	<i>RBI</i>	13q14.2	NM_000321	319 ^{**} , 472 ^{**}
31	<i>THBS1</i>	15q15	NM_003246	355 ^{**}
32	<i>PYCARD</i>	16p11.2	NM_013258	398 ^{**}
33	<i>CDH13</i>	16q23.3	NM_001257	436 [*] , 219 ^{**}
34	<i>TP53</i>	17p13.1	NM_000546	168 ^{**}
35	<i>HIC1</i>	17p13.3	NM_006497.3	220 [*]
36	<i>BRCA1</i>	17q21.31	NM_007294.3	246 [*] , 140 ^{**}
37	<i>STK11</i>	19p13.3	NM_000455	382 ^{**}
38	<i>GATA5</i>	20q13.33	NM_080473	434 ^{**}
39	<i>TIMP-3</i>	22q12.3	NM_000362	142 [*]

PCR products obtained with ME011 ([^]), ME001 (^{*}) and ME002- MS-MLPA kit (^{**}). Twenty-one genes were examined with at least two MS-MLPA probes, due to a partial overlapping between the probe mixes contained in the three kits. For these genes a mean value of raw MS-MLPA results was calculated.