

Supplementary Table 1: Statistically significant chromosomal alterations in *Rassf1A*; *Apc*^{+/*Min*} adenomas. Array CGH was performed to analyse DNA copy number changes (gains and losses, 'indels') in the adenomas of *Rassf1A*^{+/+}; *Apc*^{+/*Min*} (n=3) and *Rassf1A*^{-/-}; *Apc*^{+/*Min*} (n=9) mice (adenoma samples analysed were of moderate-severe histological grade of dysplasia, contained ≤20% normal tissue and had a low presence of infiltrating inflammatory cells). Array-CGH analysis was performed by fluorochrome-reversed pairs of two-colour hybridizations of a tiling path mouse BAC microarray with fluorescently labelled adenoma DNA and normal DNA, using a method described previously [Chung et al., 2004]. Overlapping or adjacent BACs in the tiling path were merged to form segments using GLAD [Hupe et al., 2004] and statistical significance (LimmaP value <0.03) was calculated by comparing the signal ratios using LIMMA/Bioconductor [Smyth, 2005]. 'Indel' refers to a significantly amplified or deleted segment.

Indel	Chr.	Aberration	Start BAC	End BAC	Start position (bp)	Region (kbp)	Log2 ratio (range)
Adenoma 1 (<i>Rassf1A</i>^{+/+}; <i>Apc</i>^{+/<i>Min</i>})							
1	1	Loss	RP23-102K10	RP23-393I20	152879854	224	-0.259 / -0.332
2	5	Loss	RP23-159G12	RP24-288A1	76624982	512	-0.351 / -0.580
3	5	Loss	RP24-370J14	RP23-299D9	94397167	1558	-0.173 / -0.642
4	6	Gain	RP23-296B6	RP23-329P9	51756081	486	+0.421 / +0.625
5	9	Gain	RP23-315J10	RP24-136G21	123711616	229	+0.345 / +0.366
6	12	Gain	RP24-121E15	RP24-76I22	115953449	471	+0.300 / +0.579
7	14	Gain	RP24-192I1	RP23-78D19	3000001	3454	+0.271 / +0.924
8	X	Loss	RP23-105O4	RP23-373M10	131553060	304	-0.250 / -0.386
Adenoma 2 (<i>Rassf1A</i>^{+/+}; <i>Apc</i>^{+/<i>Min</i>})							
1	4	Loss	RP23-286N14	RP23-145B5	21091871	718	-0.363 / -0.390
2	4	Loss	RP23-285K4	RP23-411B7	41898266	1146	-0.544 / -0.737
3	4	Loss	RP23-269E13	RP23-200O20	111452440	1947	-0.373 / -1.331
4	4	Loss	RP23-350D7	RP23-132K17	121089250	1080	-0.239 / -0.738
5	5	Loss	RP23-239L21	RP23-438G9	14818107	471	-0.688 / -0.880
6	7	Loss	RP23-342N5	RP23-123H4	19298186	3494	-0.401 / -0.784
7	7	Loss	RP23-466F9	RP24-347J6	31024602	2229	-0.560 / -1.302
8	7	Loss	RP23-379I14	RP24-104I11	104136169	215	-0.352 / -0.390
9	10	Loss	RP24-325B7	RP24-290I13	81004872	294	-0.453 / -0.518
10	16	Loss	RP24-140N16	RP23-238B16	36160827	178	-0.287 / -0.313
11	17	Gain	RP23-364A24	RP23-480C16	30146798	553	+0.557 / +0.654
Adenoma 3 (<i>Rassf1A</i>^{+/+}; <i>Apc</i>^{+/<i>Min</i>})							
1	1	Loss	RP23-102K10	RP23-393I20	152879854	224	-0.259 / -0.332
2	5	Loss	RP23-159G12	RP24-288A1	76624982	512	-0.351 / -0.580
3	5	Loss	RP24-370J14	RP23-299D9	94397167	1558	-0.173 / -1.195
4	6	Gain	RP23-296B6	RP23-329P9	51756081	486	+0.396 / +0.625
5	9	Gain	RP23-315J10	RP24-136G21	123711616	229	+0.345 / +0.366
6	11	Gain	RP24-331H6	RP23-452E21	38513340	265	+0.430 / +0.641
7	12	Gain	RP24-121E15	RP24-76I22	115953449	471	+0.300 / +0.579
8	14	Gain	RP24-192I1	RP23-78D19	3000001	3454	+0.333 / +0.924
9	X	Loss	RP23-105O4	RP23-373M10	131553060	304	-0.250 / -0.386
Adenoma 4 (<i>Rassf1A</i>^{-/-}; <i>Apc</i>^{+/<i>Min</i>})							
1	4	Gain	RP23-285K4	RP23-411B7	41898266	1146	+0.415 / +0.520
2	5	Loss	RP23-159G12	RP24-288A1	76624982	512	-0.209 / -0.506
3	5	Loss	RP24-370J14	RP23-299D9	94397167	1558	-0.383 / -0.589
4	6	Gain	RP23-296B6	RP23-329P9	51756081	486	+0.410 / +0.623
5	9	Loss	RP23-465E17	RP23-93E19	107150756	427	-0.271 / -0.378
6	12	Gain	RP24-376H17	RP24-76I22	116196448	228	+0.463 / +0.589
7	14	Gain	RP24-192I1	RP24-532L14	3000001	3672	+0.256 / +0.884
Adenoma 5 (<i>Rassf1A</i>^{-/-}; <i>Apc</i>^{+/<i>Min</i>})							
1	14	Gain	RP24-192I1	RP23-78D19	3000001	3454	+0.103 / +0.488
2	17	Loss	RP23-213F10	RP24-168J3	12838167	282	-0.295 / -0.347
Adenoma 6 (<i>Rassf1A</i>^{-/-}; <i>Apc</i>^{+/<i>Min</i>})							
1	14	Gain	RP24-192I1	RP23-78D19	3000001	3454	+0.161 / +0.378
2	17	Loss	RP23-213F10	RP24-168J3	12838167	282	-0.296 / -0.323

Adenoma 7 (*Rassf1A*^{-/-}; *Apc*^{+Min})

1	4	Loss	RP23-196N14	RP23-145B5	20554242	1256	-0.278 / -0.716
2	4	Loss	RP23-167I12	RP23-411B7	41832111	1212	-0.477 / -0.871
3	4	Loss	RP23-350D7	RP23-290P16	121089250	770	-0.314 / -0.446
4	5	Loss	RP23-239L21	RP23-438G9	14818107	471	-0.369 / -0.493
5	7	Gain	RP24-487D5	RP24-562E3	8703067	322	+0.392 / +0.335
6	7	Loss	RP24-352A16	RP23-464J8	16435863	331	-0.291 / -0.354
7	7	Loss	RP23-153P2	RP23-123H4	19084806	3707	-0.263 / -0.663
8	7	Loss	RP23-466F9	RP24-542I6	31024602	2017	-0.213 / -0.419
9	7	Loss	RP23-379I14	RP24-104I11	104136169	215	-0.348 / -0.349
10	9	Gain	RP23-312L20	RP23-86N15	46583828	396	+0.493 / +0.889
11	9	Loss	RP23-465E17	RP23-456B9	107150756	149	-0.310 / -0.347
12	9	Loss	RP23-197K11	RP23-451B4	115006580	595	-0.220 / -0.405
13	9	Gain	RP23-315J10	RP24-136G21	123711616	229	+0.451 / +0.588
14	12	Gain	RP23-218B2	RP24-76I22	115896815	527	+0.263 / +0.687
15	17	Loss	RP23-213F10	RP24-168J3	12838167	282	-0.532 / -0.645
16	17	Loss	RP24-263O10	RP24-321P20	59213211	384	-0.440 / -1.570
17	18	Gain	RP23-426G16	RP23-232N14	9742449	391	+0.356 / +0.502

Adenoma 8 (*Rassf1A*^{-/-}; *Apc*^{+Min})

1	9	Gain	RP23-312L20	RP23-235J18	46583828	485	+0.259 / +0.405
2	9	Gain	RP23-315J10	RP24-136G21	123711616	229	+0.280 / +0.330
3	12	Gain	RP24-121E15	RP24-76I22	115953449	471	+0.331 / +0.512
4	17	Gain	RP23-456P8	RP23-103I10	6020648	654	+0.333 / +0.609
5	17	Loss	RP23-213F10	RP24-168J3	12838167	282	-0.475 / -0.495

Adenoma 9 (*Rassf1A*^{-/-}; *Apc*^{+Min})

1	4	Gain	RP23-167I12	RP23-411B7	41832111	1212	+0.433 / +0.685
2	5	Loss	RP23-159G12	RP24-288A1	76624982	512	-0.877 / -1.421
3	5	Loss	RP24-352H15	RP24-370J14	94337985	1618	-0.617 / -1.656
4	6	Gain	RP23-424B15	RP24-87H5	130593647	521	+0.322 / +0.437
5	17	Loss	RP23-213F10	RP24-168J3	12838167	282	-0.343 / -0.455

Adenoma 10 (*Rassf1A*^{-/-}; *Apc*^{+Min})

1	4	Gain	RP23-285K4	RP23-411B7	76624982	1146	+0.383 / +0.591
2	5	Loss	RP23-159G12	RP24-288A1	76624982	512	-0.245 / -0.599
3	5	Loss	RP24-370J14	RP23-299D9	94397167	1558	-0.424 / -0.634
4	6	Gain	RP23-296B6	RP23-329P9	51756081	486	+0.452 / +0.599
5	7	Loss	RP23-342N5	RP23-123H4	19298186	3494	-0.327 / -0.635
6	9	Gain	RP23-312L20	RP23-235J18	46583828	485	+0.256 / +0.629
7	9	Gain	RP23-315J10	RP24-136G21	123711616	229	+0.189 / +0.210
8	12	Loss	RP23-122J17	RP23-349L22	104049300	473	-0.363 / -0.456
9	12	Gain	RP24-275L15	RP23-333D9	113909699	402	+0.204 / +0.472
10	12	Gain	RP23-18L19	RP24-430M1	114852316	389	+0.178 / +0.338
11	12	Gain	RP23-218B2	RP24-76I22	115896815	527	+0.352 / +0.858
12	13	Gain	RP23-135A24	RP23-374O23	27651458	461	+0.284 / +0.368
13	13	Gain	RP23-229D10	RP24-94N16	65300201	2023	+0.225 / +0.500
14	17	Loss	RP23-213F10	RP24-168J3	12838167	282	-0.410 / -0.500

Adenoma 11 (*Rassf1A*^{-/-}; *Apc*^{+Min})

1	4	Gain	RP23-285K4	RP23-411B7	41898266	1146	+0.235 / +0.340
2	6	Gain	RP23-296B6	RP23-329P9	51756081	486	+0.317 / +0.464
3	18	Loss	RP24-141F1	RP24-483G17	23216262	2223	-0.239 / -0.399
4	18	Loss	RP24-129H18	RP24-114C6	25578202	1002	-0.232 / -0.509
5	18	Loss	RP24-228J4	RP23-101L2	31943444	3968	-0.180 / -0.402
6	18	Loss	RP24-88N19	RP23-51A20	36042312	627	-0.306 / -0.480
7	18	Loss	RP23-19K11	RP24-313G11	37895710	1863	-0.115 / -0.483
8	18	Loss	RP23-69K14	RP23-166K13	41855956	540	-0.126 / -0.360
9	18	Loss	RP23-392G14	RP23-408H14	46052519	1821	-0.225 / -0.334

Adenoma 12 (*Rassf1A*^{-/-}; *Apc*^{+Min})

1	6	Gain	RP23-296B6	RP23-329P9	51756081	486	+0.471 / +0.703
2	6	Loss	RP24-495F22	RP23-278A22	127848336	288	-0.289 / -0.304
3	17	Loss	RP23-213F10	RP24-168J3	12838167	282	-0.364 / -0.428