

## Apc<sup>1638N/+</sup> F10/Wild type F10

Probe set	Gene symbol	Gene name	Fold change	p value
1459747_at	NA	NA	0.361	0.0272683
1435872_at	NA	NA	0.371	0.0143635
1426715_s_at	Slc46a1	solute carrier family 46, member 1	0.393	0.0370555
1417898_a_at	Gzma	granzyme A	0.395	0.0330584
1440218_at	Pcdh24	protocadherin 24	0.400	0.0185226
1444258_at	NA	NA	0.402	0.0282398
1418015_at	Pum2	pumilio 2 (Drosophila)	0.403	0.0453897
1448683_at	Cyp2d26	cytochrome P450, family 2, subfamily d, polypeptide 26	0.405	0.0316206
1422453_at	Prpf8	pre-mRNA processing factor 8	0.411	0.0156287
1451139_at	Slc39a4	solute carrier family 39 (zinc transporter), member 4	0.411	0.0019328
1425079_at	Tm6sf2	transmembrane 6 superfamily member 2	0.421	0.0316473
1437669_x_at	Ccr1	chemokine (C-C motif) receptor-like 1	0.435	0.0448629
1451683_x_at	H2-K1	histocompatibility 2, K1, K region	0.435	0.0413122
1455889_at	Far2	fatty acyl CoA reductase 2	0.438	0.037102
1424715_at	Retsat	retinol saturase (all trans retinol 13,14 reductase)	0.438	0.0163892
1418331_at	1110031I02Rik	RIKEN cDNA 1110031I02 gene	0.446	0.0216148
1420426_at	Myo7b	myosin VIIb	0.446	0.0256166

1452150_at	AU040320	expressed sequence AU040320	0.446	0.0124992
1426014_a_at	Mupcdh	mucin-like protocadherin	0.446	0.036641
1443341_at	NA	NA	0.448	0.0116822
1438714_at	NA	NA	0.450	0.0074319
1416759_at	Mical1	microtubule associated monooxygenase , calponin and LIM domain containing 1	0.451	0.0180164
1417601_at	Rgs1	regulator of G- protein signaling 1	0.452	0.0492094
1418646_at	Gna-rs1	guanine nucleotide binding protein, related sequence 1	0.455	0.0236889
1427294_a_at	Slc38a10	solute carrier family 38, member 10	0.458	0.0446729
1448110_at	Sema4a	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4A	0.462	0.0183148
1417920_at	Amn	amionless	0.462	0.0339486
1417042_at	Slc37a4	solute carrier family 37 (glucose-6- phosphate transporter), member 4	0.464	0.0220935
1430527_a_at	Rnf167	ring finger protein 167	0.464	0.0131824
1456849_at	NA	NA	0.465	0.0152178
1460170_at	Ext2	exostoses (multiple) 2	0.467	0.0106283

1417440_at	Arid1a	AT rich interactive domain 1A (SWI-like)	0.468	0.0464827
1417868_a_at	Ctsz	cathepsin Z	0.468	0.0370989
1448402_at	Tln1	talin 1	0.469	0.0499263
1424456_at	Pvrl2	poliovirus receptor-related 2	0.469	0.0374555
1448148_at	Grn	granulin	0.474	0.0341025
1427889_at	Spna2	spectrin alpha 2	0.476	0.0127787
1440819_s_at	BC059842	cDNA sequence BC059842	0.477	0.0173178
1448128_at	Ctsa	cathepsin A	0.481	0.025811
1454658_at	Ilvbl	ilvB (bacterial acetolactate synthase)-like	0.484	0.0251278
1425545_x_at	H2-L	histocompatibility 2, D region	0.485	0.0266003
1420843_at	Ptpnf	protein tyrosine phosphatase, receptor type, F	0.486	0.0244289
1430043_at	Ttc19	tetratricopeptide repeat domain 19	0.486	0.0117217
1417108_at	Klc4	kinesin light chain 4	0.486	0.0214801
1451931_x_at	H2-L	histocompatibility 2, D region	0.488	0.0215466
1416683_at	Plxnb2	plexin B2	0.489	0.0109914
1416275_at	Slc26a6	solute carrier family 26, member 6	0.489	0.0318773
1449202_at	Sema4g	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4G	0.490	0.0451329

1434586_a_at	Ptdss2	phosphatidylserine synthase 2	0.491	0.026475
1456610_at	Jmjd3	jumonji domain containing 3	0.492	0.0411598
1416769_s_at	Atp6v0b	ATPase, H <sup>+</sup> transporting, lysosomal V0 subunit B	0.497	0.0196648
1438266_at	Adamts15	ADAMTS-like 5	0.498	0.0267019
1424238_at	Sirt7	sirtuin 7 (silent mating type information regulation 2, homolog) 7 (S. cerevisiae)	0.499	0.0162015
1459860_x_at	Trim2	tripartite motif-containing 2	2.001	0.0141431
1452388_at	Hspa1a	heat shock protein 1A	2.004	0.0236075
AFFX-BioB-3_at	NA	NA	2.008	0.0454378
1446483_at	Akr1e1	aldo-keto reductase family 1, member E1	2.009	0.0484743
1460302_at	Thbs1	thrombospondin 1	2.009	0.0169981
1437249_at	Skap1	src family associated phosphoprotein 1	2.012	0.0188387
1423836_at	Zfp503	zinc finger protein 503	2.014	0.01207
1426327_s_at	Zfp91	zinc finger protein 91	2.015	0.0153741
1448290_at	Reg3b	regenerating islet-derived 3 beta	2.016	0.0166414
1447739_x_at	Klhd4	kelch domain containing 4	2.017	0.028739
1438659_x_at	Chchd6	coiled-coil-helix coiled-coil-helix domain containing 6	2.020	0.0281448
1430680_a_at	5830417110Rik	RIKEN cDNA 5830417110 gene	2.024	0.048529

1453928_a_at	Ssb	Sjogren syndrome antigen B	2.025	0.0361339
1428916_s_at	Sirt5	sirtuin 5 (silent mating type information regulation 2 homolog) 5 (S. cerevisiae)	2.027	0.009676
1447060_at	NA	NA	2.033	0.026877
AFFX-MURINE_b1_at	NA	NA	2.035	0.0253516
1420994_at	B3gnt5	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5	2.040	0.021133
1424217_at	Papola	poly (A) polymerase alpha	2.046	0.0128153
1426407_at	Cugbp1	CUG triplet repeat, RNA binding protein 1	2.053	0.0332755
1440770_at	Bcl2	B-cell leukemia/lymphoma 2	2.057	0.0179207
1444028_s_at	Dock9	dedicator of cytokinesis 9	2.057	0.0066224
1448505_at	C1d	nuclear DNA binding protein	2.062	0.0272645
1450618_a_at	Sprr2a	small proline-rich protein 2A	2.062	0.0487749
1437104_at	Arfgef1	ADP-ribosylation factor guanine nucleotide-exchange factor 1 (brefeldin A-inhibited)	2.067	0.0399663
1439200_x_at	Erdr1	erythroid differentiation regulator 1	2.067	0.0053515
1451456_at	6430706D22 Rik	RIKEN cDNA 6430706D22 gene	2.071	0.0052352

1457150_at	AI428301	expressed sequence AI428301	2.073	0.0118897
1415784_at	Vps35	vacuolar protein sorting 35	2.077	0.0462366
1438573_at	Rmi1	RMI1, RecQ mediated genome instability 1, homolog (S. cerevisiae)	2.087	0.0061015
1434111_at	LOC1000480 50	similar to calcium- independent alpha- latrotoxin receptor homolog 2	2.087	0.0375112
1459704_at	NA	NA	2.087	0.0197827
1447696_x_at	Adcy5	adenylate cyclase 5	2.087	0.0236629
1439158_at	Tlk1	tousled-like kinase 1	2.092	0.0034561
1456489_at	Pcf11	cleavage and polyadenylatio n factor subunit homolog (S. cerevisiae)	2.094	0.0169975
1456717_at	NA	NA	2.095	0.024805
1447838_x_at	Eml4	echinoderm microtubule associated protein like 4	2.095	0.0115038
1420017_at	Tspan8	tetraspanin 8	2.098	0.0298278
1440578_at	NA	NA	2.099	0.0110016
1440452_at	Drp2	dystrophin related protein 2	2.121	0.0075073
1435856_x_at	Smrcb1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily b, member 1	2.128	0.0084636
1429003_at	Snw1	SNW domain containing 1	2.134	0.0356522

1456544_at	Tmem38b	transmembrane protein 38B	2.137	0.0063218
1452054_at	Ube2w	ubiquitin-conjugating enzyme E2W (putative)	2.140	0.015785
1434820_s_at	Pkig	protein kinase inhibitor, gamma	2.141	0.0333066
1429129_at	Lrrcc1	leucine rich repeat and coiled-coil domain containing 1	2.150	0.0199902
1455284_x_at	Pigx	phosphatidylinositol glycan anchor biosynthesis, class X	2.155	0.0197582
1458661_at	NA	NA	2.156	0.0124228
1425565_at	Rest	RE1-silencing transcription factor	2.161	0.0265607
1432651_at	2510019K15 Rik	RIKEN cDNA 2510019K15 gene	2.162	0.0131418
1425862_a_at	Pik3c2a	phosphatidylinositol 3-kinase, C2 domain containing, alpha polypeptide	2.164	0.0054893
1457964_at	1810044D09 Rik	RIKEN cDNA 1810044D09 gene	2.167	0.0048916
1438476_a_at	Chd4	chromodomain helicase DNA binding protein 4	2.169	0.0088546
1447993_a_at	Snhg10	small nucleolar RNA host gene (non-protein coding) 10	2.171	0.0144216

1422005_at	Eif2ak2	eukaryotic translation initiation factor 2-alpha kinase 2	2.172	0.0118289
1435520_at	Msi2	Musashi homolog 2 (Drosophila)	2.173	0.002094
1457281_at	Dnajc21	DnaJ (Hsp40) homolog, subfamily C, member 21	2.181	0.024693
1455648_at	NA	NA	2.181	0.0218464
1427169_at	Pard3b	par-3 partitioning defective 3 homolog B (C. elegans)	2.184	0.0370099
1444574_at	NA	NA	2.185	0.0471522
1455998_at	LOC667118	similar to Zinc finger BED domain containing protein 4	2.186	0.0495609
1416568_a_at	Acin1	apoptotic chromatin condensation inducer 1	2.187	0.0326437
1435137_s_at	1200016E24 Rik	RIKEN cDNA 1200016E24 gene	2.190	0.0262621
1440205_at	NA	NA	2.198	0.0237797
1428670_at	2610305J24 Rik	RIKEN cDNA 2610305J24 gene	2.211	0.0200956
1435324_x_at	Hmgb1	high mobility group box 1	2.219	0.0310795
1430698_a_at	Pibf1	progesterone immunomodulatory binding factor 1	2.223	0.0253615
1452466_a_at	Rbm6	RNA binding motif protein 6	2.227	0.0336777
1447908_x_at	Ttc3	tetratricopeptide repeat domain 3	2.233	0.0060107



1441089_at	Eif2c3	eukaryotic translation initiation factor 2C, 3	2.237	0.0091414
1440928_at	D630037F22 Rik	RIKEN cDNA D630037F22 gene	2.246	0.0270085
AFFX-r2-Bs-dap-3_at	NA	NA	2.251	0.0257328
1437264_at	BC051142	cDNA sequence BC051142	2.263	0.0149527
1437267_x_at	Hnrnp1	heterogeneous nuclear ribonucleoprotein H1	2.265	0.0017498
1429434_at	Pik3ca	phosphatidylinositol 3-kinase, catalytic, alpha polypeptide	2.274	0.0127718
1437745_at	Chd7	chromodomain helicase DNA binding protein 7	2.280	0.0431018
1417736_at	Smc6	structural maintenance of chromosomes 6	2.286	0.0086159
1443792_at	Tsga14	testis specific gene A14	2.295	0.0167923
1435493_at	Dsp	desmoplakin	2.296	0.0320716
1430561_at	Dnajb14	DnaJ (Hsp40) homolog, subfamily B, member 14	2.300	0.0384125
1439828_at	NA	NA	2.314	0.0217005
1431804_a_at	Sp3	trans-acting transcription factor 3	2.322	0.0408457
AFFX-DapX-3_at	NA	NA	2.323	0.0401573
1452318_a_at	Hspa1b	heat shock protein 1B	2.325	0.0024122
1420935_a_at	Srrm1	serine/arginine repetitive matrix 1	2.330	0.017146
1457348_at	NA	NA	2.331	0.0221526

1436936_s_at	Tsix	X (inactive)-specific transcript, antisense	2.334	0.0110941
1431889_x_at	Psg21	pregnancy-specific glycoprotein 21	2.336	0.0022268
1456506_at	Prpf38b	PRP38 pre-mRNA processing factor 38 (yeast) domain containing B	2.360	0.026501
1453421_at	Srr	serine racemase	2.365	0.0062646
1427488_a_at	Birc6	baculoviral IAP repeat-containing 6	2.373	0.0337884
1425523_at	Rbm25	RNA binding motif protein 25	2.380	0.031179
1428045_a_at	Elf2	E74-like factor 2	2.408	0.0465537
1450051_at	Atrx	alpha thalassemia/mental retardation syndrome X-linked homolog (human)	2.409	0.0209497
1419092_a_at	Slk	STE20-like kinase (yeast)	2.413	0.0018268
1433383_at	1500002K03 Rik	RIKEN cDNA 1500002K03 gene	2.432	0.0304745
1430820_a_at	Bbx	bobby sox homolog (Drosophila)	2.436	0.0069515
1438771_at	Brd1	bromodomain containing 1	2.454	0.0112815
AFFX-r2-Ec-bioC-3_at	NA	NA	2.464	0.0210453
1448820_a_at	Eif2s2	eukaryotic translation initiation factor 2, subunit 2 (beta)	2.470	0.0027369

1420098_s_at	D13Ert787e	DNA segment, Chr 13, ERATO Doi 787, expressed	2.476	0.0121903
1429196_at	Rabgap1l	RAB GTPase activating protein 1-like	2.479	0.0212252
1448008_at	Ankhd1	ankyrin repeat and KH domain containing 1	2.511	0.0056297
1426936_at	LOC215866	hypothetical protein LOC215866	2.513	0.0062722
1428463_a_at	Ppp2r5e	protein phosphatase 2, regulatory subunit B (B56), epsilon isoform	2.528	0.0262376
1440146_at	Vps13a	vacuolar protein sorting 13A (yeast)	2.535	0.003624
1423390_at	Siah1a	seven in absentia 1A	2.543	0.0098655
1448794_s_at	Dnajc2	DnaJ (Hsp40) homolog, subfamily C, member 2	2.547	0.0310338
1447059_at	NA	NA	2.567	0.0152638
1440972_at	Nsd1	nuclear receptor-binding SET-domain protein 1	2.575	0.0277813
1440929_at	Ggnbp2	gametogenetin binding protein 2	2.577	0.0156559
1456493_at	MGC118608	similar to Sp110 nuclear body protein	2.588	0.0206351
1455831_at	Fus	fusion, derived from t(12;16) malignant liposarcoma (human)	2.594	0.0350183
1438556_a_at	Tmod3	tropomodulin 3	2.597	0.046144

AFFX-r2-Ec-bioC-5_at	NA	NA	2.632	0.0165195
1418024_at	Narg1	NMDA receptor-regulated gene 1	2.636	0.0449654
1439450_x_at	A230046K03 Rik	RIKEN cDNA A230046K03 gene	2.646	0.0214322
1455151_at	Akap9	A kinase (PRKA) anchor protein (yotiao) 9	2.650	0.0490794
1439114_at	Ddx60	DEAD (Asp-Glu-Ala-Asp) box polypeptide 60	2.651	0.0112689
1428563_at	Ddx10	DEAD (Asp-Glu-Ala-Asp) box polypeptide 10	2.674	0.0147241
1420479_a_at	Nap111	nucleosome assembly protein 1-like 1	2.680	0.0208863
1425319_s_at	6530403A03 Rik	RIKEN cDNA 6530403A03 gene	2.690	0.0358225
AFFX-BioC-3_at	NA	NA	2.695	0.0129799
1449292_at	Rb1cc1	RB1-inducible coiled-coil 1	2.696	0.0481605
1425177_at	Shmt1	serine hydroxymethyltransferase 1 (soluble)	2.700	0.008003
1437497_a_at	Hsp90aa1	heat shock protein 90, alpha (cytosolic), class A member 1	2.712	0.0386227
1423597_at	Atp8a1	ATPase, aminophospholipid transporter (APLT), class I, type 8A, member 1	2.718	0.0426415

1430987_s_at	Wbp11	WW domain binding protein 11	2.723	0.0041309
1448007_at	Baz2b	bromodomain adjacent to zinc finger domain, 2B	2.725	0.0204969
1418431_at	Kif5b	kinesin family member 5B	2.728	0.0336933
1437719_x_at	A230046K03 Rik	RIKEN cDNA A230046K03 gene	2.744	0.0148144
1429624_at	Sltm	SAFB-like, transcription modulator	2.745	0.0212925
AFFX-BioC-5_at	NA	NA	2.747	0.0133444
1442038_at	Rbm26	RNA binding motif protein 26	2.760	0.0310236
1449042_at	Ctcf	CCCTC-binding factor	2.767	0.0256688
1417135_at	Srpk2	serine/arginine-rich protein specific kinase 2	2.768	0.0154087
1456112_at	Tpr	translocated promoter region	2.775	0.0389852
1420947_at	Atrx	alpha thalassemia/mental retardation syndrome X-linked homolog (human)	2.778	0.0482306
1451640_a_at	Rsrc2	arginine/serine-rich coiled-coil 2	2.778	0.0255843
1417713_at	Eif2s2	eukaryotic translation initiation factor 2, subunit 2 (beta)	2.796	0.0027185
1428951_at	Nol8	nucleolar protein 8	2.799	0.0297925
1441858_at	NA	NA	2.802	0.0098663
1437110_at	2810474O19 Rik	RIKEN cDNA 2810474O19 gene	2.807	0.0431039

1427311_at	Bptf	bromodomain PHD finger transcription factor	2.828	0.0140271
1437884_at	Arl5b	ADP-ribosylation factor-like 5B	2.851	0.0023361
1427209_at	Baz2a	bromodomain adjacent to zinc finger domain, 2A	2.888	0.0054918
1424084_at	Rod1	ROD1 regulator of differentiation 1 (S. pombe)	2.897	0.0126927
1436741_at	Obox5	oocyte specific homeobox 5	2.926	0.0007592
1445843_at	Chd2	chromodomain helicase DNA binding protein 2	2.945	0.0116082
1455869_at	NA	NA	2.945	0.0431005
1428497_at	Secisbp2	SECIS binding protein 2	2.946	0.037313
AFFX-DapX-M_at	NA	NA	2.959	0.0091759
1453185_at	Sfrs18	splicing factor, arginine/serine-rich 18	3.008	0.0145777
1428942_at	Mt2	metallothionein 2	3.024	0.0164553
AFFX-LysX-M_at	NA	NA	3.040	0.0445343
1439566_at	Gprin3	GPRIN family member 3	3.055	0.0477696
1429537_at	Sfrs18	splicing factor, arginine/serine-rich 18	3.061	0.0066532
1437303_at	Il6st	interleukin 6 signal transducer	3.074	0.0069616
1426892_at	Utrn	utrophin	3.084	0.0421969
AFFX-ThrX-M_at	NA	NA	3.108	0.038525
1438833_at	Casc5	cancer susceptibility candidate 5	3.118	0.0058852
AFFX-r2-Bs-dap-M_at	NA	NA	3.145	0.0041621
1432962_at	2610024D14 Rik	RIKEN cDNA 2610024D14 gene	3.149	0.0357865

AFFX-r2-Bs-thr-M_s_at	NA	NA	3.151	0.0319428
1416218_x_at	Rpl37a	ribosomal protein L37a	3.159	0.0047882
1459565_at	Uty	ubiquitously transcribed tetratricopeptide repeat gene, Y chromosome	3.164	0.0058317
1439463_x_at	2810416G20 Rik	RIKEN cDNA 2810416G20 gene	3.239	0.0075146
1439058_at	Sfpq	splicing factor proline/glutamine rich (polypyrimidine tract binding protein associated)	3.252	0.0073025
1444952_a_at	Nucks1	nuclear casein kinase and cyclin-dependent kinase substrate 1	3.270	0.0018313
AFFX-PheX-M_at	NA	NA	3.300	0.0358023
AFFX-r2-Bs-phe-M_at	NA	NA	3.311	0.0276457
1457744_at	Ddx46	DEAD (Asp-Glu-Ala-Asp) box polypeptide 46	3.330	0.0043166
1426541_a_at	Endod1	endonuclease domain containing 1	3.398	0.0064998
1449446_at	Ccdc59	coiled-coil domain containing 59	3.409	0.0025094
1441466_at	Sfrs10	splicing factor, arginine/serine-rich 10 (transformer 2 homolog, Drosophila)	3.419	0.0118036
AFFX-r2-Bs-phe-5_at	NA	NA	3.484	0.0302019

1452708_a_at	Luc7l	Luc7 homolog (S. cerevisiae)-like	3.495	0.0220084
AFFX-ThrX-5_at	NA	NA	3.533	0.0267839
1444004_at	Thoc2	THO complex 2	3.546	0.0388227
AFFX-LysX-5_at	NA	NA	3.570	0.0204446
1456319_at	NA	NA	3.585	0.0112417
1430216_at	Zfp292	zinc finger protein 292	3.648	0.0006681
1456420_at	Arid4a	AT rich interactive domain 4A (RBP1-like)	3.657	0.0157006
1436505_at	Ppig	peptidyl-prolyl isomerase G (cyclophilin G)	3.697	0.0122708
AFFX-DapX-5_at	NA	NA	3.703	0.0076425
AFFX-r2-Bs-thr-5_s_at	NA	NA	3.709	0.0200456
1436746_at	Wnk1	WNK lysine deficient protein kinase 1	3.791	0.0163493
1415859_at	Eif3c	eukaryotic translation initiation factor 3, subunit C	3.881	0.0113674
1452333_at	Smarca2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2	3.932	0.000463
AFFX-r2-Bs-lys-5_at	NA	NA	4.020	0.0108107
1458685_at	Garnl1	GTPase activating RANGAP domain-like 1	4.047	0.0172665
AFFX-r2-Bs-dap-5_at	NA	NA	4.055	0.0036696
AFFX-PheX-5_at	NA	NA	4.135	0.0165357



1451920_a_at	Rfc1	replication factor C (activator 1) 1	4.148	0.0032625
1434300_at	2610101N10 Rik	RIKEN cDNA 2610101N10 gene	4.161	0.0106819
1456110_at	Ankrd11	ankyrin repeat domain 11	4.349	0.0167188
1443602_at	NA	NA	4.372	0.0034879
1431024_a_at	Arid4b	AT rich interactive domain 4B (RBP1-like)	4.418	0.0036213
1451485_at	3300001P08 Rik	RIKEN cDNA 3300001P08 gene	4.522	0.0172686
1426360_at	Zc3h11a	zinc finger CCCH type containing 11A	4.543	0.0017533
1456102_a_at	Cul5	cullin 5	4.632	0.0025593
1420946_at	Atrx	alpha thalassemia/mental retardation syndrome X-linked homolog (human)	4.756	0.0015104
1452885_at	Sfrs2ip	splicing factor, arginine/serine-rich 2, interacting protein	4.801	0.0054179
1443867_at	Ankrd12	ankyrin repeat domain 12	5.613	0.0004093
1437082_at	Akap9	A kinase (PRKA) anchor protein (yotiao) 9	5.840	0.005754
1443877_a_at	Rapgef6	Rap guanine nucleotide exchange factor (GEF) 6	6.179	0.0017994
1419734_at	Actb	actin, beta	7.191	0.000917