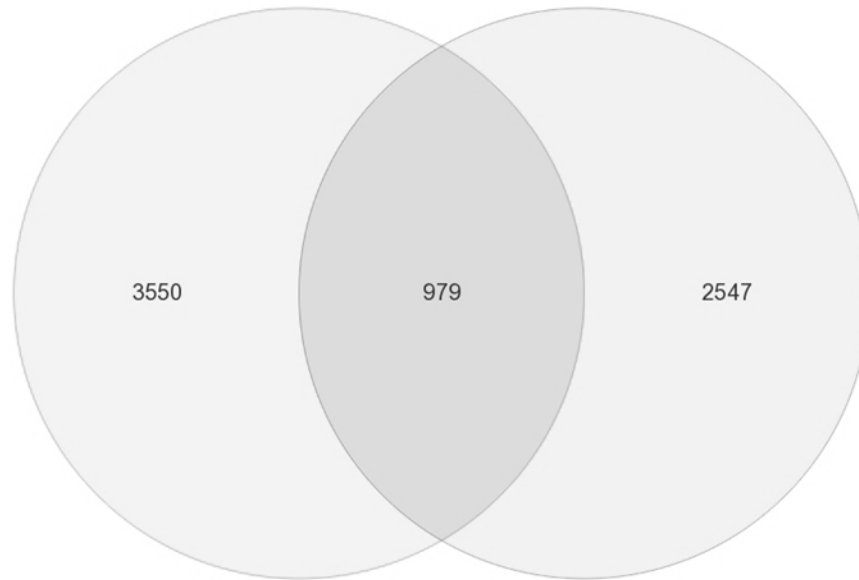


SUPPLEMENTARY MATERIALS



Healthy Controls vs. Tolerant Unique (years 5 & 6) (4529) Healthy Controls vs. Tolerant Unique (years 3 & 4) (3526)

Figure S1. Venn diagram showing the overlap of 3526 and 4529 genes that are unique to Tol subjects at years 3 + 4 and 5 + 6 post-transplant, Differential expression of 979 genes is shared at both times.

Supplementary Table S2: 1 Year Tolerant vs. 1 Year Non-Tolerant (p<0.005)

Probeset ID	Gene Symbol	Gene Title	p-value (1 Year Tolerant vs. 1 Year Non-Tolerant)	Fold-Change(1 Year Tolerant vs. 1 Year Non-Tolerant)	Fold-Change(1 Year Tolerant vs. 1 Year Non-Tolerant) (Description)
242043_PM_s_at	EST1	EST1	2.80E-06	1.57	1 Year Tolerant up vs 1 Year Non-Tolerant
234644_PM_x_at	TNFRSF10C	Tumor necrosis factor receptor superfamily, member 10c, decoy without an intracellular	8.77E-06	1.87	1 Year Tolerant up vs 1 Year Non-Tolerant
203788_PM_s_at	SEMA3C	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3C	5.27E-05	1.48	1 Year Tolerant up vs 1 Year Non-Tolerant
1553542_PM_at	CCDC125	coiled-coil domain containing 125	8.29E-05	1.53	1 Year Tolerant up vs 1 Year Non-Tolerant
215717_PM_s_at	FBN2	fibrillin 2	0.00012	1.58	1 Year Tolerant up vs 1 Year Non-Tolerant
243074_PM_at	EST2	EST2	0.00013	1.50	1 Year Tolerant up vs 1 Year Non-Tolerant
242010_PM_at	LOC728475	Hypothetical LOC728475	0.00014	-1.40	1 Year Tolerant down vs 1 Year Non-Tolerant
200773_PM_x_at	PTMA	prothymosin, alpha	0.00018	-1.12	1 Year Tolerant down vs 1 Year Non-Tolerant
212348_PM_s_at	KDM1A	lysine (K)-specific demethylase 1A	0.00021	-1.48	1 Year Tolerant down vs 1 Year Non-Tolerant
236479_PM_at	EST3	EST3	0.00023	1.36	1 Year Tolerant up vs 1 Year Non-Tolerant
210579_PM_s_at	TRIM10	tripartite motif-containing 10	0.00033	1.43	1 Year Tolerant up vs 1 Year Non-Tolerant
244787_PM_at	EST4	EST4	0.00033	2.28	1 Year Tolerant up vs 1 Year Non-Tolerant
235823_PM_at	EST5	EST5	0.00040	1.71	1 Year Tolerant up vs 1 Year Non-Tolerant
221006_PM_s_at	SNX27	sorting nexin family member 27	0.00044	1.58	1 Year Tolerant up vs 1 Year Non-Tolerant
243697_PM_at	MOXD1	monooxygenase, DBH-like 1	0.00051	1.35	1 Year Tolerant up vs 1 Year Non-Tolerant
202899_PM_s_at	SRSF3	serine/arginine-rich splicing factor 3	0.00054	-1.41	1 Year Tolerant down vs 1 Year Non-Tolerant
205015_PM_s_at	TGFA	transforming growth factor, alpha	0.00059	1.30	1 Year Tolerant up vs 1 Year Non-Tolerant
1554539_PM_a_at	RHOF	ras homolog gene family, member F (in filopodia)	0.00070	-1.83	1 Year Tolerant down vs 1 Year Non-Tolerant
227106_PM_at	LOC440104	1110012D08Rik pseudogene	0.00070	-1.52	1 Year Tolerant down vs 1 Year Non-Tolerant
208609_PM_s_at	TNXB	tenascin XB	0.00071	1.36	1 Year Tolerant up vs 1 Year Non-Tolerant
244456_PM_at	EST6	EST6	0.00072	1.37	1 Year Tolerant up vs 1 Year Non-Tolerant
205555_PM_s_at	MSX2	msh homeobox 2	0.00072	1.37	1 Year Tolerant up vs 1 Year Non-Tolerant
214174_PM_s_at	PDLIM4	PDZ and LIM domain 4	0.00083	1.58	1 Year Tolerant up vs 1 Year Non-Tolerant
227707_PM_at	MYLIP	Myosin regulatory light chain interacting protein	0.00089	1.52	1 Year Tolerant up vs 1 Year Non-Tolerant
241316_PM_at	EST7	EST7	0.00090	1.45	1 Year Tolerant up vs 1 Year Non-Tolerant
217607_PM_x_at	EIF4G2	eukaryotic translation initiation factor 4 gamma, 2	0.00094	1.43	1 Year Tolerant up vs 1 Year Non-Tolerant
228074_PM_at	ITPRIPL2	inositol 1,4,5-triphosphate receptor interacting protein-like 2	0.00094	1.46	1 Year Tolerant up vs 1 Year Non-Tolerant
224192_PM_at	FCRL2	Fc receptor-like 2	0.00099	-1.56	1 Year Tolerant down vs 1 Year Non-Tolerant
227922_PM_x_at	LOC441124	Hypothetical gene supported by AK093729; BX647918	0.00099	-1.68	1 Year Tolerant down vs 1 Year Non-Tolerant

213705_PM_at	LOC100509558 /// LOC100510047	hypothetical LOC100509558 /// hypothetical LOC100510047	0.00105	1.64	1 Year Tolerant up vs 1 Year Non-Tolerant
215415_PM_s_at	LYST	lysosomal trafficking regulator	0.00115	2.00	1 Year Tolerant up vs 1 Year Non-Tolerant
226744_PM_at	METT10D	methyltransferase 10 domain containing	0.00117	-1.48	1 Year Tolerant down vs 1 Year Non-Tolerant
224931_PM_at	SLC41A3	solute carrier family 41, member 3	0.00118	-1.55	1 Year Tolerant down vs 1 Year Non-Tolerant
1553483_PM_at	TSGA10IP	testis specific, 10 interacting protein	0.00119	-1.34	1 Year Tolerant down vs 1 Year Non-Tolerant
1555904_PM_at	EST8	EST8	0.00123	1.56	1 Year Tolerant up vs 1 Year Non-Tolerant
1555423_PM_at	SSH2	slingshot homolog 2 (Drosophila)	0.00130	1.34	1 Year Tolerant up vs 1 Year Non-Tolerant
201523_PM_x_at	UBE2N	ubiquitin-conjugating enzyme E2N (UBC13 homolog, yeast)	0.00132	-1.63	1 Year Tolerant down vs 1 Year Non-Tolerant
236392_PM_at	CUL9	cullin 9	0.00133	1.30	1 Year Tolerant up vs 1 Year Non-Tolerant
230208_PM_at	HCN4	hyperpolarization activated cyclic nucleotide-gated potassium channel 4	0.00140	1.32	1 Year Tolerant up vs 1 Year Non-Tolerant
207124_PM_s_at	GNB5	guanine nucleotide binding protein (G protein), beta 5	0.00144	-2.36	1 Year Tolerant down vs 1 Year Non-Tolerant
229645_PM_at	FAM69C	family with sequence similarity 69, member C	0.00153	-1.42	1 Year Tolerant down vs 1 Year Non-Tolerant
215961_PM_at	F12	coagulation factor XII (Hageman factor)	0.00158	1.45	1 Year Tolerant up vs 1 Year Non-Tolerant
1553815_PM_a_at	TCEANC	transcription elongation factor A (SII) N-terminal and central domain containing	0.00162	1.36	1 Year Tolerant up vs 1 Year Non-Tolerant
1566869_PM_at	EST9	EST9	0.00162	1.29	1 Year Tolerant up vs 1 Year Non-Tolerant
234373_PM_x_at	EST10	EST10	0.00162	1.36	1 Year Tolerant up vs 1 Year Non-Tolerant
211941_PM_s_at	PEBP1	phosphatidylethanolamine binding protein 1	0.00164	-1.49	1 Year Tolerant down vs 1 Year Non-Tolerant
239152_PM_at	EST11	EST11	0.00165	1.55	1 Year Tolerant up vs 1 Year Non-Tolerant
217023_PM_x_at	TPSAB1	tryptase alpha/beta 1	0.00166	-1.37	1 Year Tolerant down vs 1 Year Non-Tolerant
239956_PM_at	EST12	EST12	0.00170	2.00	1 Year Tolerant up vs 1 Year Non-Tolerant
230155_PM_x_at	MSL1	Male-specific lethal 1 homolog (Drosophila)	0.00171	1.42	1 Year Tolerant up vs 1 Year Non-Tolerant
1553020_PM_at	SMCR5	Smith-Magenis syndrome chromosome region, candidate 5 (non-protein coding)	0.00174	1.30	1 Year Tolerant up vs 1 Year Non-Tolerant
209298_PM_s_at	ITSN1	intersectin 1 (SH3 domain protein)	0.00175	1.54	1 Year Tolerant up vs 1 Year Non-Tolerant
229185_PM_at	LIFR	leukemia inhibitory factor receptor alpha	0.00177	-1.27	1 Year Tolerant down vs 1 Year Non-Tolerant
242300_PM_at	EST13	EST13	0.00177	2.25	1 Year Tolerant up vs 1 Year Non-Tolerant
241922_PM_at	LMO4	LIM domain only 4	0.00185	1.39	1 Year Tolerant up vs 1 Year Non-Tolerant
1560411_PM_at	EST14	EST14	0.00193	1.29	1 Year Tolerant up vs 1 Year Non-Tolerant
1557415_PM_s_at	LETM2	leucine zipper-EF-hand containing transmembrane protein 2	0.00195	-1.34	1 Year Tolerant down vs 1 Year Non-Tolerant
216164_PM_at	LRRN2	leucine rich repeat neuronal 2	0.00196	-1.37	1 Year Tolerant down vs 1 Year Non-Tolerant
219222_PM_at	RBKS	ribokinase	0.00201	1.37	1 Year Tolerant up vs 1 Year Non-Tolerant
230736_PM_at	LOC387647	patched domain containing 3 pseudogene	0.00206	1.29	1 Year Tolerant up vs 1 Year Non-Tolerant

1559474_PM_at	SPEG	SPEG complex locus	0.00211	1.38	1 Year Tolerant up vs 1 Year Non-Tolerant
242281_PM_at	GLUL	glutamate-ammonia ligase	0.00211	1.70	1 Year Tolerant up vs 1 Year Non-Tolerant
240946_PM_at	EST15	EST15	0.00213	1.41	1 Year Tolerant up vs 1 Year Non-Tolerant
216277_PM_at	BUB1	budding uninhibited by benzimidazoles 1 homolog (yeast)	0.00214	-1.52	1 Year Tolerant down vs 1 Year Non-Tolerant
207127_PM_s_at	HNRNPH3	heterogeneous nuclear ribonucleoprotein H3 (2H9)	0.00215	-1.30	1 Year Tolerant down vs 1 Year Non-Tolerant
1556172_PM_at	EST16	EST16	0.00215	1.49	1 Year Tolerant up vs 1 Year Non-Tolerant
207618_PM_s_at	BCS1L	BCS1-like (<i>S. cerevisiae</i>)	0.00220	-1.64	1 Year Tolerant down vs 1 Year Non-Tolerant
215605_PM_at	NCOA2	Nuclear receptor coactivator 2	0.00220	1.89	1 Year Tolerant up vs 1 Year Non-Tolerant
231220_PM_at	CELF4	CUGBP, Elav-like family member 4	0.00223	1.29	1 Year Tolerant up vs 1 Year Non-Tolerant
213229_PM_at	DICER1	dicer 1, ribonuclease type III	0.00228	1.65	1 Year Tolerant up vs 1 Year Non-Tolerant
240409_PM_at	SUGT1P3	suppressor of G2 allele of SKP1 (<i>S. cerevisiae</i>) pseudogene 3	0.00231	1.28	1 Year Tolerant up vs 1 Year Non-Tolerant
221131_PM_at	A4GNT	alpha-1,4-N-acetylglucosaminyltransferase	0.00232	1.26	1 Year Tolerant up vs 1 Year Non-Tolerant
214014_PM_at	CDC42EP2	CDC42 effector protein (Rho GTPase binding) 2	0.00233	1.43	1 Year Tolerant up vs 1 Year Non-Tolerant
239327_PM_at	EST17	EST17	0.00233	1.49	1 Year Tolerant up vs 1 Year Non-Tolerant
237140_PM_x_at	EST18	EST18	0.00234	1.32	1 Year Tolerant up vs 1 Year Non-Tolerant
217000_PM_at	EST19	EST19	0.00238	1.37	1 Year Tolerant up vs 1 Year Non-Tolerant
209114_PM_at	TSPAN1	tetraspanin 1	0.00238	-1.43	1 Year Tolerant down vs 1 Year Non-Tolerant
229949_PM_at	LOC100507625	hypothetical LOC100507625	0.00244	-1.40	1 Year Tolerant down vs 1 Year Non-Tolerant
1562094_PM_at	EST20	EST20	0.00247	1.57	1 Year Tolerant up vs 1 Year Non-Tolerant
213559_PM_s_at	ZNF467	Zinc finger protein 467	0.00257	1.27	1 Year Tolerant up vs 1 Year Non-Tolerant
1562747_PM_at	EST21	EST21	0.00258	1.25	1 Year Tolerant up vs 1 Year Non-Tolerant
225115_PM_at	HIPK2	homeodomain interacting protein kinase 2	0.00258	1.55	1 Year Tolerant up vs 1 Year Non-Tolerant
1559035_PM_a_at	EST22	EST22	0.00258	3.32	1 Year Tolerant up vs 1 Year Non-Tolerant
240690_PM_at	EST23	EST23	0.00261	-1.90	1 Year Tolerant down vs 1 Year Non-Tolerant
202123_PM_s_at	ABL1	c-abl oncogene 1, non-receptor tyrosine kinase	0.00263	-1.51	1 Year Tolerant down vs 1 Year Non-Tolerant
205531_PM_s_at	GLS2	glutaminase 2 (liver, mitochondrial)	0.00263	1.35	1 Year Tolerant up vs 1 Year Non-Tolerant
240625_PM_at	EST24	EST24	0.00269	1.40	1 Year Tolerant up vs 1 Year Non-Tolerant
213176_PM_s_at	LTBP4	latent transforming growth factor beta binding protein 4	0.00273	1.38	1 Year Tolerant up vs 1 Year Non-Tolerant
208821_PM_at	SNRPB	small nuclear ribonucleoprotein polypeptides B and B1	0.00277	-1.41	1 Year Tolerant down vs 1 Year Non-Tolerant
1554868_PM_s_at	PCNP	PEST proteolytic signal containing nuclear protein	0.00277	-1.32	1 Year Tolerant down vs 1 Year Non-Tolerant
225608_PM_at	SNX29	sorting nexin 29	0.00279	-1.50	1 Year Tolerant down vs 1 Year Non-Tolerant
242248_PM_at	PHKB	phosphorylase kinase, beta	0.00281	2.00	1 Year Tolerant up vs 1 Year Non-Tolerant
237897_PM_at	LOC100506357	hypothetical LOC100506357	0.00288	1.40	1 Year Tolerant up vs 1 Year Non-Tolerant
1562863_PM_at	EST25	EST25	0.00299	1.53	1 Year Tolerant up vs 1 Year Non-Tolerant
201125_PM_s_at	ITGB5	integrin, beta 5	0.00300	-1.90	1 Year Tolerant down vs 1 Year Non-Tolerant

242168_PM_at	NDUFS7	NADH dehydrogenase (ubiquinone) Fe-S protein 7, 20kDa (NADH-coenzyme Q reductase)	0.00303	1.40	1 Year Tolerant up vs 1 Year Non-Tolerant
1566471_PM_at	EST26	EST26	0.00304	-1.35	1 Year Tolerant down vs 1 Year Non-Tolerant
201524_PM_x_at	UBE2N	ubiquitin-conjugating enzyme E2N (UBC13 homolog, yeast)	0.00308	-1.21	1 Year Tolerant down vs 1 Year Non-Tolerant
215246_PM_at	LARP7	La ribonucleoprotein domain family, member 7	0.00308	1.74	1 Year Tolerant up vs 1 Year Non-Tolerant
235967_PM_at	LOC100127891	hypothetical LOC100127891	0.00311	-1.42	1 Year Tolerant down vs 1 Year Non-Tolerant
229576_PM_s_at	TBX3	T-box 3	0.00312	1.32	1 Year Tolerant up vs 1 Year Non-Tolerant
217915_PM_s_at	RSL24D1	ribosomal L24 domain containing 1	0.00313	-1.37	1 Year Tolerant down vs 1 Year Non-Tolerant
229179_PM_at	RUFY1	RUN and FYVE domain containing 1	0.00314	1.25	1 Year Tolerant up vs 1 Year Non-Tolerant
206132_PM_at	MCC	mutated in colorectal cancers	0.00314	-1.28	1 Year Tolerant down vs 1 Year Non-Tolerant
241086_PM_at	EST27	EST27	0.00314	1.26	1 Year Tolerant up vs 1 Year Non-Tolerant
221423_PM_s_at	YIPF5	Yip1 domain family, member 5	0.00316	-2.02	1 Year Tolerant down vs 1 Year Non-Tolerant
243341_PM_at	EST28	EST28	0.00318	1.55	1 Year Tolerant up vs 1 Year Non-Tolerant
AFFX-r2-Bs-phe-3_at	EST29	EST29	0.00323	3.30	1 Year Tolerant up vs 1 Year Non-Tolerant
AFFX-ThrX-5_at	EST30	EST30	0.00327	3.88	1 Year Tolerant up vs 1 Year Non-Tolerant
1561219_PM_x_at	EST31	EST31	0.00333	-1.36	1 Year Tolerant down vs 1 Year Non-Tolerant
231716_PM_at	RC3H2	ring finger and CCCH-type domains 2	0.00333	1.43	1 Year Tolerant up vs 1 Year Non-Tolerant
237875_PM_at	EST32	EST32	0.00334	2.25	1 Year Tolerant up vs 1 Year Non-Tolerant
212766_PM_s_at	ISG20L2	interferon stimulated exonuclease gene 20kDa-like 2	0.00335	-1.44	1 Year Tolerant down vs 1 Year Non-Tolerant
223582_PM_at	GPR98	G protein-coupled receptor 98	0.00336	1.30	1 Year Tolerant up vs 1 Year Non-Tolerant
1552834_PM_at	B3GNT6	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 6 (core 3 synthase)	0.00336	-1.32	1 Year Tolerant down vs 1 Year Non-Tolerant
219126_PM_at	PHF10	PHD finger protein 10	0.00345	-1.31	1 Year Tolerant down vs 1 Year Non-Tolerant
244257_PM_at	EST33	EST33	0.00351	2.23	1 Year Tolerant up vs 1 Year Non-Tolerant
206708_PM_at	FOXN2	forkhead box N2	0.00351	1.49	1 Year Tolerant up vs 1 Year Non-Tolerant
201104_PM_x_at	NBPF1 /// NBPF11 /// NBPF14 /// NBPF15 /// NBPF16 /// NBPF24 /// NBPF8	neuroblastoma breakpoint family, member 1 /// neuroblastoma breakpoint family, member 1	0.00352	-1.28	1 Year Tolerant down vs 1 Year Non-Tolerant
239630_PM_at	EST34	EST34	0.00354	2.13	1 Year Tolerant up vs 1 Year Non-Tolerant
237746_PM_at	SFRS11	Splicing factor, arginine/serine-rich 11	0.00355	1.42	1 Year Tolerant up vs 1 Year Non-Tolerant
208184_PM_s_at	TRAPPC10	trafficking protein particle complex 10	0.00355	-1.38	1 Year Tolerant down vs 1 Year Non-Tolerant
1556988_PM_s_at	CHD1L	chromodomain helicase DNA binding protein 1-like	0.00361	-1.39	1 Year Tolerant down vs 1 Year Non-Tolerant
1560926_PM_at	EST35	EST35	0.00364	2.18	1 Year Tolerant up vs 1 Year Non-Tolerant
202143_PM_s_at	COPS8	COP9 constitutive photomorphogenic homolog subunit 8 (Arabidopsis)	0.00365	-1.49	1 Year Tolerant down vs 1 Year Non-Tolerant

201997_PM_s_at	SPEN	spen homolog, transcriptional regulator (Drosophila)	0.00370	-1.22	1 Year Tolerant down vs 1 Year Non-Tolerant
1561449_PM_at	EST36	EST36	0.00370	-1.31	1 Year Tolerant down vs 1 Year Non-Tolerant
226597_PM_at	REEP6	receptor accessory protein 6	0.00374	-1.29	1 Year Tolerant down vs 1 Year Non-Tolerant
221237_PM_s_at	OSBP2	oxysterol binding protein 2	0.00379	1.55	1 Year Tolerant up vs 1 Year Non-Tolerant
222721_PM_at	CNIH4	cornichon homolog 4 (Drosophila)	0.00379	2.07	1 Year Tolerant up vs 1 Year Non-Tolerant
215412_PM_x_at	PMS2L2	postmeiotic segregation increased 2-like 2 pseudogene	0.00389	-1.42	1 Year Tolerant down vs 1 Year Non-Tolerant
244200_PM_at	EST37	EST37	0.00389	1.44	1 Year Tolerant up vs 1 Year Non-Tolerant
215160_PM_x_at	LOC100509419 /// LOC100510581 /// LOC642236	protein FRG1B-like /// protein FRG1-like /// FSHD region gene 1 pseudogene	0.00408	-1.39	1 Year Tolerant down vs 1 Year Non-Tolerant
239508_PM_x_at	CCDC108	coiled-coil domain containing 108	0.00408	1.29	1 Year Tolerant up vs 1 Year Non-Tolerant
210978_PM_s_at	TAGLN2	transgelin 2	0.00413	-1.63	1 Year Tolerant down vs 1 Year Non-Tolerant
210823_PM_s_at	PTPRS	protein tyrosine phosphatase, receptor type, S	0.00421	1.36	1 Year Tolerant up vs 1 Year Non-Tolerant
209445_PM_x_at	C7orf44	chromosome 7 open reading frame 44	0.00423	-1.46	1 Year Tolerant down vs 1 Year Non-Tolerant
1560563_PM_at	EST38	EST38	0.00425	1.27	1 Year Tolerant up vs 1 Year Non-Tolerant
AFFX-LysX-5_at	EST39	EST39	0.00425	3.09	1 Year Tolerant up vs 1 Year Non-Tolerant
223423_PM_at	GPR160	G protein-coupled receptor 160	0.00426	-1.82	1 Year Tolerant down vs 1 Year Non-Tolerant
211510_PM_s_at	CRHR2	corticotropin releasing hormone receptor 2	0.00427	1.31	1 Year Tolerant up vs 1 Year Non-Tolerant
225048_PM_at	PHF10	PHD finger protein 10	0.00429	-1.74	1 Year Tolerant down vs 1 Year Non-Tolerant
209475_PM_at	USP15	ubiquitin specific peptidase 15	0.00433	1.46	1 Year Tolerant up vs 1 Year Non-Tolerant
224547_PM_at	EST40	EST40	0.00433	1.32	1 Year Tolerant up vs 1 Year Non-Tolerant
230284_PM_at	MYOM3	myomesin family, member 3	0.00435	1.29	1 Year Tolerant up vs 1 Year Non-Tolerant
1568748_PM_at	LOC100508869	hypothetical LOC100508869	0.00437	-1.36	1 Year Tolerant down vs 1 Year Non-Tolerant
1555988_PM_a_at	LOC126536	hypothetical LOC126536	0.00443	1.25	1 Year Tolerant up vs 1 Year Non-Tolerant
218418_PM_s_at	KANK2	KN motif and ankyrin repeat domains 2	0.00443	1.64	1 Year Tolerant up vs 1 Year Non-Tolerant
228416_PM_at	ACVR2A	activin A receptor, type IIA	0.00447	1.89	1 Year Tolerant up vs 1 Year Non-Tolerant
230377_PM_s_at	TBC1D2B	TBC1 domain family, member 2B	0.00448	1.24	1 Year Tolerant up vs 1 Year Non-Tolerant
AFFX-LysX-M_at	EST41	EST41	0.00454	3.32	1 Year Tolerant up vs 1 Year Non-Tolerant
237606_PM_at	CD53	CD53 molecule	0.00456	1.45	1 Year Tolerant up vs 1 Year Non-Tolerant
1568795_PM_at	EST42	EST42	0.00457	1.25	1 Year Tolerant up vs 1 Year Non-Tolerant
223597_PM_at	ITLN1	intelectin 1 (galactofuranose binding)	0.00458	1.72	1 Year Tolerant up vs 1 Year Non-Tolerant
222505_PM_at	LMBR1	limb region 1 homolog (mouse)	0.00459	1.58	1 Year Tolerant up vs 1 Year Non-Tolerant
211993_PM_at	WNK1	WNK lysine deficient protein kinase 1	0.00464	1.63	1 Year Tolerant up vs 1 Year Non-Tolerant
214929_PM_s_at	KIAA1109	KIAA1109	0.00468	1.34	1 Year Tolerant up vs 1 Year Non-Tolerant
AFFX-r2-Bs-lys-M_at	EST43	EST43	0.00469	3.58	1 Year Tolerant up vs 1 Year Non-Tolerant
217742_PM_s_at	WAC	WW domain containing adaptor with coiled-coil	0.00470	-1.16	1 Year Tolerant down vs 1 Year Non-Tolerant

AFFX-LysX-3_at	EST44	EST44	0.00474	3.30	1 Year Tolerant up vs 1 Year Non-Tolerant
212237_PM_at	ASXL1	additional sex combs like 1 (Drosophila)	0.00474	-1.38	1 Year Tolerant down vs 1 Year Non-Tolerant
207354_PM_at	CCL16	chemokine (C-C motif) ligand 16	0.00476	-1.20	1 Year Tolerant down vs 1 Year Non-Tolerant
202570_PM_s_at	DLGAP4	discs, large (Drosophila) homolog-associated protein 4	0.00479	-1.57	1 Year Tolerant down vs 1 Year Non-Tolerant
243826_PM_at	EST45	EST45	0.00480	1.76	1 Year Tolerant up vs 1 Year Non-Tolerant
1569371_PM_at	LRRC59	leucine rich repeat containing 59	0.00481	1.25	1 Year Tolerant up vs 1 Year Non-Tolerant
1568853_PM_at	EST46	EST46	0.00482	-1.33	1 Year Tolerant down vs 1 Year Non-Tolerant
1558466_PM_at	UGGT2	UDP-glucose glycoprotein glucosyltransferase 2	0.00483	1.36	1 Year Tolerant up vs 1 Year Non-Tolerant
228265_PM_at	EST47	EST47	0.00483	1.31	1 Year Tolerant up vs 1 Year Non-Tolerant
1556352_PM_at	EST48	EST48	0.00485	2.13	1 Year Tolerant up vs 1 Year Non-Tolerant
237637_PM_at	EST49	EST49	0.00486	1.42	1 Year Tolerant up vs 1 Year Non-Tolerant
216174_PM_at	HCRP1	hepatocellular carcinoma-related HCRP1	0.00487	1.26	1 Year Tolerant up vs 1 Year Non-Tolerant
203069_PM_at	SV2A	synaptic vesicle glycoprotein 2A	0.00488	1.33	1 Year Tolerant up vs 1 Year Non-Tolerant
201390_PM_s_at	CSNK2B	casein kinase 2, beta polypeptide	0.00494	-1.35	1 Year Tolerant down vs 1 Year Non-Tolerant
234956_PM_at	LOC93444	hypothetical protein LOC93444	0.00496	1.28	1 Year Tolerant up vs 1 Year Non-Tolerant
226997_PM_at	ADAMTS12	ADAM metalloproteinase with thrombospondin type 1 motif, 12	0.00498	1.28	1 Year Tolerant up vs 1 Year Non-Tolerant
207560_PM_at	SLC28A1	solute carrier family 28 (sodium-coupled nucleoside transporter), member 1	0.00499	1.40	1 Year Tolerant up vs 1 Year Non-Tolerant

Supplementary Table S3: 2 Year Tolerant vs. 2 Year Non-Tolerant (p<0.005)

Probeset ID	Gene Symbol	Gene Title	p-value(2 Year Tolerant vs. 2 Year Non-Tolerant)	Fold-Change (2 Year Tolerant vs. 2 Year Non-Tolerant)	Fold-Change(2 Year Tolerant vs. 2 Year Non-Tolerant) (Description)
243376_PM_at	EST1	EST1	5.47E-06	1.98	2 Year Tolerant up vs 2 Year Non-Tolerant
203969_PM_at	PEX3	peroxisomal biogenesis factor 3	2.10E-05	-1.83	2 Year Tolerant down vs 2 Year Non-Tolerant
215211_PM_at	RRN3P1	RNA polymerase I transcription factor homolog (S. cerevisiae) pseudogene 1	2.91E-05	-2.44	2 Year Tolerant down vs 2 Year Non-Tolerant
233436_PM_at	MTBP	Mdm2, transformed 3T3 cell double minute 2, p53 binding protein (mouse) binding protein	3.33E-05	-1.42	2 Year Tolerant down vs 2 Year Non-Tolerant
1565759_PM_at	RPL13	Ribosomal protein L13	4.63E-05	-2.11	2 Year Tolerant down vs 2 Year Non-Tolerant
211330_PM_s_at	HFE	hemochromatosis	0.00011037	1.62	2 Year Tolerant up vs 2 Year Non-Tolerant
225562_PM_at	RASA3	RAS p21 protein activator 3	0.0001421	-1.45	2 Year Tolerant down vs 2 Year Non-Tolerant
227106_PM_at	LOC440104	1110012D08Rik pseudogene	0.00016357	-1.60	2 Year Tolerant down vs 2 Year Non-Tolerant
212475_PM_at	AVL9	AVL9 homolog (S. cerevisiae)	0.00019908	1.63	2 Year Tolerant up vs 2 Year Non-Tolerant
229577_PM_at	AGPAT6	1-acylglycerol-3-phosphate O-acyltransferase 6 (lysophosphatidic acid acyltransferase,	0.00024443	-1.60	2 Year Tolerant down vs 2 Year Non-Tolerant
231016_PM_s_at	ARNT	Aryl hydrocarbon receptor nuclear translocator	0.00025127	1.68	2 Year Tolerant up vs 2 Year Non-Tolerant
220095_PM_at	CNTLN	centlein, centrosomal protein	0.00027423	1.44	2 Year Tolerant up vs 2 Year Non-Tolerant
210222_PM_s_at	RTN1	reticulon 1	0.00030478	1.98	2 Year Tolerant up vs 2 Year Non-Tolerant
204438_PM_at	MRC1 /// MRC1L1	mannose receptor, C type 1 /// mannose receptor, C type 1-like 1	0.00041898	2.05	2 Year Tolerant up vs 2 Year Non-Tolerant
207960_PM_at	EST2	EST2	0.00043923	1.37	2 Year Tolerant up vs 2 Year Non-Tolerant
1555881_PM_s_at	LZTS2	leucine zipper, putative tumor suppressor 2	0.00046645	-1.40	2 Year Tolerant down vs 2 Year Non-Tolerant
239726_PM_at	EST3	EST3	0.00047504	-2.54	2 Year Tolerant down vs 2 Year Non-Tolerant
222040_PM_at	HNRNPA1 /// LOC100506653	heterogeneous nuclear ribonucleoprotein A1 /// hypothetical LOC100506653	0.00048921	-1.77	2 Year Tolerant down vs 2 Year Non-Tolerant
233274_PM_at	EST4	EST4	0.00050641	-1.61	2 Year Tolerant down vs 2 Year Non-Tolerant
230344_PM_x_at	EST5	EST5	0.00051943	1.30	2 Year Tolerant up vs 2 Year Non-Tolerant
232586_PM_x_at	OR7E126P	olfactory receptor, family 7, subfamily E, member 126 pseudogene	0.00057558	-1.75	2 Year Tolerant down vs 2 Year Non-Tolerant
223861_PM_at	HORMAD1	HORMA domain containing 1	0.00058423	1.40	2 Year Tolerant up vs 2 Year Non-Tolerant
226484_PM_at	ZBTB47	zinc finger and BTB domain containing 47	0.00062582	1.41	2 Year Tolerant up vs 2 Year Non-Tolerant
201041_PM_s_at	DUSP1	dual specificity phosphatase 1	0.00063087	1.35	2 Year Tolerant up vs 2 Year Non-Tolerant
235555_PM_at	EST6	EST6	0.00063337	1.47	2 Year Tolerant up vs 2 Year Non-Tolerant
1556042_PM_s_at	LOC338799	hypothetical LOC338799	0.00063481	-1.76	2 Year Tolerant down vs 2 Year Non-Tolerant
212377_PM_s_at	NOTCH2	notch 2	0.00065626	1.35	2 Year Tolerant up vs 2 Year Non-Tolerant

1570032_PM_at	AP3B2	adaptor-related protein complex 3, beta 2 subunit	0.0006666	-1.44	2 Year Tolerant down vs 2 Year Non-Tolerant
41644_PM_at	SASH1	SAM and SH3 domain containing 1	0.00072946	2.01	2 Year Tolerant up vs 2 Year Non-Tolerant
214639_PM_s_at	HOXA1	homeobox A1	0.0007466	1.68	2 Year Tolerant up vs 2 Year Non-Tolerant
236587_PM_at	EST7	EST7	0.00077043	1.52	2 Year Tolerant up vs 2 Year Non-Tolerant
206385_PM_s_at	ANK3	ankyrin 3, node of Ranvier (ankyrin G)	0.00080438	-2.08	2 Year Tolerant down vs 2 Year Non-Tolerant
222788_PM_s_at	RSBN1	round spermatid basic protein 1	0.00082499	-1.38	2 Year Tolerant down vs 2 Year Non-Tolerant
202377_PM_at	LEPROT	leptin receptor overlapping transcript	0.00087258	1.67	2 Year Tolerant up vs 2 Year Non-Tolerant
1564401_PM_at	LOC400748	hypothetical LOC400748	0.0008797	-1.29	2 Year Tolerant down vs 2 Year Non-Tolerant
219700_PM_at	PLXDC1	plexin domain containing 1	0.00088176	-2.29	2 Year Tolerant down vs 2 Year Non-Tolerant
213958_PM_at	CD6	CD6 molecule	0.00089125	-2.10	2 Year Tolerant down vs 2 Year Non-Tolerant
221876_PM_at	ZNF783	zinc finger family member 783	0.00090529	-1.42	2 Year Tolerant down vs 2 Year Non-Tolerant
1555500_PM_s_at	SLC2A4RG	SLC2A4 regulator	0.00093689	-1.65	2 Year Tolerant down vs 2 Year Non-Tolerant
1568858_PM_at	EST8	EST8	0.00095265	-1.32	2 Year Tolerant down vs 2 Year Non-Tolerant
205213_PM_at	ACAP1	ArfGAP with coiled-coil, ankyrin repeat and PH domains 1	0.0010482	-1.67	2 Year Tolerant down vs 2 Year Non-Tolerant
1558477_PM_at	LOC100131496	hypothetical LOC100131496	0.00104964	-1.27	2 Year Tolerant down vs 2 Year Non-Tolerant
1564274_PM_at	C9orf47	chromosome 9 open reading frame 47	0.00106172	1.84	2 Year Tolerant up vs 2 Year Non-Tolerant
233302_PM_at	EST9	EST9	0.00108092	-2.76	2 Year Tolerant down vs 2 Year Non-Tolerant
1559835_PM_at	EST10	EST10	0.00108619	2.08	2 Year Tolerant up vs 2 Year Non-Tolerant
1569190_PM_at	SCLT1	sodium channel and clathrin linker 1	0.00110443	1.57	2 Year Tolerant up vs 2 Year Non-Tolerant
221406_PM_s_at	C6orf26 /// MSH5	chromosome 6 open reading frame 26 /// mutS homolog 5 (E. coli)	0.00112225	-1.39	2 Year Tolerant down vs 2 Year Non-Tolerant
213703_PM_at	LOC150759	hypothetical LOC150759	0.00115889	-2.09	2 Year Tolerant down vs 2 Year Non-Tolerant
202443_PM_x_at	NOTCH2	notch 2	0.00120688	1.25	2 Year Tolerant up vs 2 Year Non-Tolerant
204712_PM_at	WIF1	WNT inhibitory factor 1	0.00123246	-1.45	2 Year Tolerant down vs 2 Year Non-Tolerant
203485_PM_at	RTN1	reticulon 1	0.00126681	1.98	2 Year Tolerant up vs 2 Year Non-Tolerant
208274_PM_at	OCLM	oculomedin	0.00131972	-1.29	2 Year Tolerant down vs 2 Year Non-Tolerant
221583_PM_s_at	KCNMA1	potassium large conductance calcium-activated channel, subfamily M, alpha member 1	0.00137041	1.25	2 Year Tolerant up vs 2 Year Non-Tolerant
242438_PM_at	ASXL1	additional sex combs like 1 (Drosophila)	0.00138347	-1.78	2 Year Tolerant down vs 2 Year Non-Tolerant
238156_PM_at	EST11	EST11	0.00144626	-1.55	2 Year Tolerant down vs 2 Year Non-Tolerant
36545_PM_s_at	SFI1	Sfi1 homolog, spindle assembly associated (yeast)	0.00146718	-1.74	2 Year Tolerant down vs 2 Year Non-Tolerant
225240_PM_s_at	MSI2	musashi homolog 2 (Drosophila)	0.00146861	-1.69	2 Year Tolerant down vs 2 Year Non-Tolerant
232139_PM_s_at	KIAA1919	KIAA1919	0.00148122	1.49	2 Year Tolerant up vs 2 Year Non-Tolerant
1567612_PM_at	EST12	EST12	0.00150744	1.35	2 Year Tolerant up vs 2 Year Non-Tolerant
237623_PM_at	CST3	cystatin C	0.00155698	2.06	2 Year Tolerant up vs 2 Year Non-Tolerant
203139_PM_at	DAPK1	death-associated protein kinase 1	0.00159958	1.59	2 Year Tolerant up vs 2 Year Non-Tolerant

227010_PM_at	EST13	EST13	0.00161736	1.52	2 Year Tolerant up vs 2 Year Non-Tolerant
202880_PM_s_at	CYTH1	cytohesin 1	0.00169054	-1.29	2 Year Tolerant down vs 2 Year Non-Tolerant
240669_PM_at	EST14	EST14	0.00169771	1.29	2 Year Tolerant up vs 2 Year Non-Tolerant
215767_PM_at	ZNF804A	zinc finger protein 804A	0.00175274	1.43	2 Year Tolerant up vs 2 Year Non-Tolerant
233570_PM_at	EST15	EST15	0.00175429	-1.45	2 Year Tolerant down vs 2 Year Non-Tolerant
206381_PM_at	SCN2A	sodium channel, voltage-gated, type II, alpha subunit	0.00178518	-1.42	2 Year Tolerant down vs 2 Year Non-Tolerant
1566448_PM_at	CD6	CD6 molecule	0.00187045	-2.33	2 Year Tolerant down vs 2 Year Non-Tolerant
1565716_PM_at	FUS	fused in sarcoma	0.00187047	-2.24	2 Year Tolerant down vs 2 Year Non-Tolerant
202398_PM_at	AP3S2	adaptor-related protein complex 3, sigma 2 subunit	0.00187892	1.33	2 Year Tolerant up vs 2 Year Non-Tolerant
218801_PM_at	UGGT2	UDP-glucose glycoprotein glucosyltransferase 2	0.00192208	1.71	2 Year Tolerant up vs 2 Year Non-Tolerant
226507_PM_at	PAK1	p21 protein (Cdc42/Rac)-activated kinase 1	0.00194652	1.49	2 Year Tolerant up vs 2 Year Non-Tolerant
241353_PM_s_at	LOC100507507 /// LOC100508744	hypothetical LOC100507507 /// hypothetical LOC100508744	0.00202079	1.64	2 Year Tolerant up vs 2 Year Non-Tolerant
226022_PM_at	SASH1	SAM and SH3 domain containing 1	0.00207019	2.53	2 Year Tolerant up vs 2 Year Non-Tolerant
1553133_PM_at	C9orf72	chromosome 9 open reading frame 72	0.00213361	1.94	2 Year Tolerant up vs 2 Year Non-Tolerant
1556827_PM_at	LOC339929	hypothetical LOC339929	0.00222775	1.39	2 Year Tolerant up vs 2 Year Non-Tolerant
242167_PM_at	EST16	EST16	0.00224132	-1.68	2 Year Tolerant down vs 2 Year Non-Tolerant
203184_PM_at	FBN2	fibrillin 2	0.00226711	2.12	2 Year Tolerant up vs 2 Year Non-Tolerant
40489_PM_at	ATN1	atrophin 1	0.00227507	-1.24	2 Year Tolerant down vs 2 Year Non-Tolerant
226490_PM_at	NHSL1	NHS-like 1	0.00230843	1.51	2 Year Tolerant up vs 2 Year Non-Tolerant
215592_PM_at	EST17	EST17	0.00232236	-2.10	2 Year Tolerant down vs 2 Year Non-Tolerant
204043_PM_at	TCN2	transcobalamin II	0.00234292	1.60	2 Year Tolerant up vs 2 Year Non-Tolerant
1557721_PM_at	EST18	EST18	0.00236584	-1.30	2 Year Tolerant down vs 2 Year Non-Tolerant
212758_PM_s_at	ZEB1	zinc finger E-box binding homeobox 1	0.00238321	-1.78	2 Year Tolerant down vs 2 Year Non-Tolerant
221756_PM_at	PIK3IP1	phosphoinositide-3-kinase interacting protein 1	0.00246854	-1.79	2 Year Tolerant down vs 2 Year Non-Tolerant
218552_PM_at	ECHDC2	enoyl CoA hydratase domain containing 2	0.00246891	-1.59	2 Year Tolerant down vs 2 Year Non-Tolerant
242733_PM_at	EST19	EST19	0.00247297	-1.57	2 Year Tolerant down vs 2 Year Non-Tolerant
227135_PM_at	NAAA	N-acylethanolamine acid amidase	0.00252204	1.48	2 Year Tolerant up vs 2 Year Non-Tolerant
235857_PM_at	KCTD11	potassium channel tetramerisation domain containing 11	0.00252345	1.47	2 Year Tolerant up vs 2 Year Non-Tolerant
243404_PM_at	EST20	EST20	0.00253779	-1.91	2 Year Tolerant down vs 2 Year Non-Tolerant
210187_PM_at	FKBP1A	FK506 binding protein 1A, 12kDa	0.00254624	1.90	2 Year Tolerant up vs 2 Year Non-Tolerant
201668_PM_x_at	MARCKS	myristoylated alanine-rich protein kinase C substrate	0.00262409	2.05	2 Year Tolerant up vs 2 Year Non-Tolerant
201531_PM_at	ZFP36	zinc finger protein 36, C3H type, homolog (mouse)	0.0026484	1.54	2 Year Tolerant up vs 2 Year Non-Tolerant
242958_PM_x_at	EST21	EST21	0.00274501	1.56	2 Year Tolerant up vs 2 Year Non-Tolerant

207291_PM_at	PRRG4	proline rich Gla (G-carboxyglutamic acid) 4 (transmembrane)	0.00274898	1.61	2 Year Tolerant up vs 2 Year Non-Tolerant
1560656_PM_at	LOC100507572	hypothetical LOC100507572	0.00276338	-1.28	2 Year Tolerant down vs 2 Year Non-Tolerant
220155_PM_s_at	BRD9	bromodomain containing 9	0.00282734	-1.37	2 Year Tolerant down vs 2 Year Non-Tolerant
1565786_PM_x_at	FLJ45482	hypothetical LOC645566	0.00287558	-1.35	2 Year Tolerant down vs 2 Year Non-Tolerant
1558467_PM_a_at	UGGT2	UDP-glucose glycoprotein glucosyltransferase 2	0.00292223	1.45	2 Year Tolerant up vs 2 Year Non-Tolerant
219147_PM_s_at	C9orf95	chromosome 9 open reading frame 95	0.00292711	-1.90	2 Year Tolerant down vs 2 Year Non-Tolerant
211794_PM_at	FYB	FYN binding protein	0.00293974	1.62	2 Year Tolerant up vs 2 Year Non-Tolerant
233420_PM_at	EST22	EST22	0.00295194	-1.30	2 Year Tolerant down vs 2 Year Non-Tolerant
221042_PM_s_at	CLMN	calmin (calponin-like, transmembrane)	0.00297542	1.90	2 Year Tolerant up vs 2 Year Non-Tolerant
239266_PM_at	EST23	EST23	0.00297974	-2.03	2 Year Tolerant down vs 2 Year Non-Tolerant
232072_PM_at	EST24	EST24	0.00304627	1.71	2 Year Tolerant up vs 2 Year Non-Tolerant
1554643_PM_at	RGS11	regulator of G-protein signaling 11	0.00306546	-1.23	2 Year Tolerant down vs 2 Year Non-Tolerant
236487_PM_at	SCLT1	sodium channel and clathrin linker 1	0.00307286	1.72	2 Year Tolerant up vs 2 Year Non-Tolerant
204748_PM_at	PTGS2	prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)	0.0030812	3.43	2 Year Tolerant up vs 2 Year Non-Tolerant
208771_PM_s_at	LTA4H	leukotriene A4 hydrolase	0.00310187	1.60	2 Year Tolerant up vs 2 Year Non-Tolerant
201739_PM_at	SGK1	serum/glucocorticoid regulated kinase 1	0.00314309	1.79	2 Year Tolerant up vs 2 Year Non-Tolerant
243954_PM_at	LOC285286	hypothetical LOC285286	0.00315296	1.80	2 Year Tolerant up vs 2 Year Non-Tolerant
212048_PM_s_at	YARS	tyrosyl-tRNA synthetase	0.00318905	-1.24	2 Year Tolerant down vs 2 Year Non-Tolerant
203638_PM_s_at	FGFR2	fibroblast growth factor receptor 2	0.00319566	-1.41	2 Year Tolerant down vs 2 Year Non-Tolerant
202813_PM_at	TARBP1	TAR (HIV-1) RNA binding protein 1	0.00320069	-1.54	2 Year Tolerant down vs 2 Year Non-Tolerant
209442_PM_x_at	ANK3	ankyrin 3, node of Ranvier (ankyrin G)	0.00323885	-1.70	2 Year Tolerant down vs 2 Year Non-Tolerant
1556919_PM_at	LEPR	leptin receptor	0.00327539	1.28	2 Year Tolerant up vs 2 Year Non-Tolerant
1560169_PM_at	EST25	EST25	0.00328441	1.80	2 Year Tolerant up vs 2 Year Non-Tolerant
232617_PM_at	CTSS	cathepsin S	0.00329016	1.34	2 Year Tolerant up vs 2 Year Non-Tolerant
241835_PM_at	LOC100132147	Hypothetical LOC100132147	0.00331073	-1.43	2 Year Tolerant down vs 2 Year Non-Tolerant
205776_PM_at	FMO5	flavin containing monooxygenase 5	0.00331754	1.53	2 Year Tolerant up vs 2 Year Non-Tolerant
237813_PM_at	PCBP2	poly(rC) binding protein 2	0.00345351	-1.52	2 Year Tolerant down vs 2 Year Non-Tolerant
226474_PM_at	NLRC5	NLR family, CARD domain containing 5	0.00345936	-1.47	2 Year Tolerant down vs 2 Year Non-Tolerant
221959_PM_at	FAM110B	family with sequence similarity 110, member B	0.00346108	1.57	2 Year Tolerant up vs 2 Year Non-Tolerant
228933_PM_at	NHS	Nance-Horan syndrome (congenital cataracts and dental anomalies)	0.00346303	1.92	2 Year Tolerant up vs 2 Year Non-Tolerant
203726_PM_s_at	LAMA3	laminin, alpha 3	0.00348752	-1.24	2 Year Tolerant down vs 2 Year Non-Tolerant
208306_PM_x_at	HLA-DRB1	Major histocompatibility complex, class II, DR beta 1	0.00349694	1.23	2 Year Tolerant up vs 2 Year Non-Tolerant

225300_PM_at	C15orf23	chromosome 15 open reading frame 23	0.00350123	1.74	2 Year Tolerant up vs 2 Year Non-Tolerant
201669_PM_s_at	MARCKS	myristoylated alanine-rich protein kinase C substrate	0.00351818	1.72	2 Year Tolerant up vs 2 Year Non-Tolerant
225077_PM_at	CHD2	chromodomain helicase DNA binding protein 2	0.00359734	-1.33	2 Year Tolerant down vs 2 Year Non-Tolerant
230020_PM_at	NAA38	N(alpha)-acetyltransferase 38, NatC auxiliary subunit	0.00359927	1.48	2 Year Tolerant up vs 2 Year Non-Tolerant
210724_PM_at	EMR3	egf-like module containing, mucin-like, hormone receptor-like 3	0.00362028	1.75	2 Year Tolerant up vs 2 Year Non-Tolerant
201853_PM_s_at	CDC25B	cell division cycle 25 homolog B (S. pombe)	0.00362145	-1.67	2 Year Tolerant down vs 2 Year Non-Tolerant
1559035_PM_a_at	EST26	EST26	0.00366514	3.18	2 Year Tolerant up vs 2 Year Non-Tolerant
1553134_PM_s_at	C9orf72	chromosome 9 open reading frame 72	0.00369133	2.19	2 Year Tolerant up vs 2 Year Non-Tolerant
1562529_PM_s_at	EST27	EST27	0.00371821	-2.02	2 Year Tolerant down vs 2 Year Non-Tolerant
230536_PM_at	PBX4	pre-B-cell leukemia homeobox 4	0.0037227	-1.68	2 Year Tolerant down vs 2 Year Non-Tolerant
203755_PM_at	BUB1B	budding uninhibited by benzimidazoles 1 homolog beta (yeast)	0.00376507	-1.49	2 Year Tolerant down vs 2 Year Non-Tolerant
223593_PM_at	AADAT	aminoadipate aminotransferase	0.00377354	-1.32	2 Year Tolerant down vs 2 Year Non-Tolerant
228008_PM_at	EST28	EST28	0.00378097	1.53	2 Year Tolerant up vs 2 Year Non-Tolerant
215193_PM_x_at	HLA-DRB1 /// HLA-DRB3 /// HLA-DRB4 /// HLA-DRB5 /// LOC100133661 /// LOC100294036 /// LOC100509582 /// LOC100510495 /// LOC100510519	major histocompatibility complex, class II, DR beta 1 /// major histocompatibility comp	0.00378256	1.24	2 Year Tolerant up vs 2 Year Non-Tolerant
238893_PM_at	LOC338758	hypothetical LOC338758	0.00378526	1.86	2 Year Tolerant up vs 2 Year Non-Tolerant
1560661_PM_x_at	EST29	EST29	0.00379327	-1.62	2 Year Tolerant down vs 2 Year Non-Tolerant
236921_PM_at	EST30	EST30	0.00379333	-1.76	2 Year Tolerant down vs 2 Year Non-Tolerant
235476_PM_at	TRIM59	tripartite motif-containing 59	0.00380578	-1.91	2 Year Tolerant down vs 2 Year Non-Tolerant
1561306_PM_s_at	STRC	stereocilin	0.00389653	-1.33	2 Year Tolerant down vs 2 Year Non-Tolerant
205722_PM_s_at	GFRA2	GDNF family receptor alpha 2	0.00390692	1.58	2 Year Tolerant up vs 2 Year Non-Tolerant
204294_PM_at	AMT	aminomethyltransferase	0.00392436	-1.47	2 Year Tolerant down vs 2 Year Non-Tolerant
1552501_PM_a_at	GPBAR1	G protein-coupled bile acid receptor 1	0.00393089	1.66	2 Year Tolerant up vs 2 Year Non-Tolerant
240139_PM_at	EST31	EST31	0.00398798	-1.67	2 Year Tolerant down vs 2 Year Non-Tolerant
214402_PM_s_at	SFI1	Sfi1 homolog, spindle assembly associated (yeast)	0.00400461	-1.54	2 Year Tolerant down vs 2 Year Non-Tolerant

201995_PM_at	EXT1	exostosin 1	0.00412503	1.79	2 Year Tolerant up vs 2 Year Non-Tolerant
244185_PM_at	EST32	EST32	0.00419046	-1.57	2 Year Tolerant down vs 2 Year Non-Tolerant
209770_PM_at	BTN3A1	butyrophilin, subfamily 3, member A1	0.00425242	-1.53	2 Year Tolerant down vs 2 Year Non-Tolerant
231286_PM_at	C9orf47	chromosome 9 open reading frame 47	0.00426537	1.41	2 Year Tolerant up vs 2 Year Non-Tolerant
205434_PM_s_at	AAK1	AP2 associated kinase 1	0.00427192	-1.49	2 Year Tolerant down vs 2 Year Non-Tolerant
226208_PM_at	ZSWIM6	zinc finger, SWIM-type containing 6	0.00430118	1.45	2 Year Tolerant up vs 2 Year Non-Tolerant
236149_PM_at	EST33	EST33	0.00437401	-1.51	2 Year Tolerant down vs 2 Year Non-Tolerant
201189_PM_s_at	ITPR3	inositol 1,4,5-triphosphate receptor, type 3	0.00438832	-1.75	2 Year Tolerant down vs 2 Year Non-Tolerant
1569849_PM_at	EST34	EST34	0.00440118	-1.31	2 Year Tolerant down vs 2 Year Non-Tolerant
219019_PM_at	LRDD	leucine-rich repeats and death domain containing	0.00447577	-1.34	2 Year Tolerant down vs 2 Year Non-Tolerant
215178_PM_x_at	NAAA	N-acylethanolamine acid amidase	0.00452007	1.39	2 Year Tolerant up vs 2 Year Non-Tolerant
219236_PM_at	PAQR6	progesterone and adipoQ receptor family member VI	0.0045271	1.45	2 Year Tolerant up vs 2 Year Non-Tolerant
235000_PM_at	LPP	LIM domain containing preferred translocation partner in lipoma	0.00453144	1.36	2 Year Tolerant up vs 2 Year Non-Tolerant
211965_PM_at	ZFP36L1	zinc finger protein 36, C3H type-like 1	0.0045381	2.04	2 Year Tolerant up vs 2 Year Non-Tolerant
239021_PM_at	TLR6	toll-like receptor 6	0.00454602	1.79	2 Year Tolerant up vs 2 Year Non-Tolerant
220148_PM_at	ALDH8A1	aldehyde dehydrogenase 8 family, member A1	0.00454851	-1.43	2 Year Tolerant down vs 2 Year Non-Tolerant
203703_PM_s_at	TTLL4	tubulin tyrosine ligase-like family, member 4	0.00459435	1.40	2 Year Tolerant up vs 2 Year Non-Tolerant
202642_PM_s_at	TRRAP	transformation/transcription domain-associated protein	0.00462976	-1.32	2 Year Tolerant down vs 2 Year Non-Tolerant
235754_PM_at	HFE	hemochromatosis	0.00463967	1.50	2 Year Tolerant up vs 2 Year Non-Tolerant
39891_PM_at	ZNF710	zinc finger protein 710	0.00464779	1.48	2 Year Tolerant up vs 2 Year Non-Tolerant
213114_PM_at	RER1	RER1 retention in endoplasmic reticulum 1 homolog (<i>S. cerevisiae</i>)	0.00465454	1.24	2 Year Tolerant up vs 2 Year Non-Tolerant
223259_PM_at	ORMDL3	ORM1-like 3 (<i>S. cerevisiae</i>)	0.00471115	-1.86	2 Year Tolerant down vs 2 Year Non-Tolerant
228058_PM_at	ZG16B	zymogen granule protein 16 homolog B (rat)	0.00477821	1.83	2 Year Tolerant up vs 2 Year Non-Tolerant
243033_PM_at	TWF1	Twinfilin, actin-binding protein, homolog 1 (<i>Drosophila</i>)	0.0047945	-1.24	2 Year Tolerant down vs 2 Year Non-Tolerant
238129_PM_s_at	EST35	EST35	0.00482632	1.36	2 Year Tolerant up vs 2 Year Non-Tolerant
223068_PM_at	EML4	echinoderm microtubule associated protein like 4	0.0048546	-1.37	2 Year Tolerant down vs 2 Year Non-Tolerant
1557399_PM_at	LOC284009	hypothetical LOC284009	0.00487746	-1.42	2 Year Tolerant down vs 2 Year Non-Tolerant
233359_PM_at	EST36	EST36	0.00490426	-1.60	2 Year Tolerant down vs 2 Year Non-Tolerant
214152_PM_at	CCPG1	cell cycle progression 1	0.00490769	1.50	2 Year Tolerant up vs 2 Year Non-Tolerant
216551_PM_x_at	PLCG1	phospholipase C, gamma 1	0.0049262	-1.32	2 Year Tolerant down vs 2 Year Non-Tolerant
225383_PM_at	ZNF275	zinc finger protein 275	0.00496214	-1.39	2 Year Tolerant down vs 2 Year Non-Tolerant
1556172_PM_at	EST37	EST37	0.00498797	1.44	2 Year Tolerant up vs 2 Year Non-Tolerant

Supplementary Table S4: List of 357 differentially expressed genes unique to Tol subjects potentially predictive of those patients that can be successful weaned off IS to tolerance.

Probeset ID	Gene Symbol	Gene Title	p-value (On IS Tolerant vs. On IS Non-Tolerant)	Fold-Change (On IS Tolerant vs. On IS Non-Tolerant)	Fold-Change(On IS Tolerant vs. On IS Non-Tolerant) (Description)
227106_PM_at	LOC440104	1110012D08Rik pseudogene	1.19E-06	-1.56391	On IS Tolerant down vs On IS Non-Tolerant
215717_PM_s_at	FBN2	fibrillin 2	7.53E-06	1.4585	On IS Tolerant up vs On IS Non-Tolerant
215211_PM_at	RRN3P1	RNA polymerase I transcription factor homolog (<i>S. cerevisiae</i>) pseudogene 1	1.03E-05	-1.94258	On IS Tolerant down vs On IS Non-Tolerant
203788_PM_s_at	SEMA3C	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3C	1.29E-05	1.34727	On IS Tolerant up vs On IS Non-Tolerant
212377_PM_s_at	NOTCH2	notch 2	1.55E-05	1.30913	On IS Tolerant up vs On IS Non-Tolerant
1556172_PM_at	EST1	EST1	2.98E-05	1.46251	On IS Tolerant up vs On IS Non-Tolerant
225562_PM_at	RASA3	RAS p21 protein activator 3	3.24E-05	-1.33785	On IS Tolerant down vs On IS Non-Tolerant
212475_PM_at	AVL9	AVL9 homolog (<i>S. cerevisiae</i>)	3.43E-05	1.47899	On IS Tolerant up vs On IS Non-Tolerant
1559035_PM_a_at	EST2	EST2	3.61E-05	3.24836	On IS Tolerant up vs On IS Non-Tolerant
1555881_PM_s_at	LZTS2	leucine zipper, putative tumor suppressor 2	4.64E-05	-1.31899	On IS Tolerant down vs On IS Non-Tolerant
237623_PM_at	CST3	cystatin C	4.92E-05	1.96364	On IS Tolerant up vs On IS Non-Tolerant
202880_PM_s_at	CYTH1	cytohesin 1	5.42E-05	-1.26444	On IS Tolerant down vs On IS Non-Tolerant
239956_PM_at	EST3	EST3	5.65E-05	1.8699	On IS Tolerant up vs On IS Non-Tolerant
41644_PM_at	SASH1	SAM and SH3 domain containing 1	6.28E-05	1.79251	On IS Tolerant up vs On IS Non-Tolerant
219126_PM_at	PHF10	PHD finger protein 10	6.93E-05	-1.29741	On IS Tolerant down vs On IS Non-Tolerant
242958_PM_x_at	EST4	EST4	7.43E-05	1.50965	On IS Tolerant up vs On IS Non-Tolerant
1556173_PM_a_at	EST5	EST5	8.50E-05	2.16701	On IS Tolerant up vs On IS Non-Tolerant
220095_PM_at	CNTLN	centlein, centrosomal protein	0.000105298	1.3112	On IS Tolerant up vs On IS Non-Tolerant
229949_PM_at	LOC100507625	hypothetical LOC100507625	0.000115151	-1.35319	On IS Tolerant down vs On IS Non-Tolerant
1570032_PM_at	AP3B2	adaptor-related protein complex 3, beta 2 subunit	0.000121378	-1.33632	On IS Tolerant down vs On IS Non-Tolerant
221992_PM_at	NPIPL2 /// NPIPL3	nuclear pore complex-interacting protein-like 3-like	0.000121417	-2.43892	On IS Tolerant down vs On IS Non-Tolerant
202813_PM_at	TARBP1	TAR (HIV-1) RNA binding protein 1	0.00012217	-1.48514	On IS Tolerant down vs On IS Non-Tolerant
237606_PM_at	CD53	CD53 molecule	0.000124348	1.42373	On IS Tolerant up vs On IS Non-Tolerant
203139_PM_at	DAPK1	death-associated protein kinase 1	0.000137147	1.4775	On IS Tolerant up vs On IS Non-Tolerant
220155_PM_s_at	BRD9	bromodomain containing 9	0.000161724	-1.3176	On IS Tolerant down vs On IS Non-Tolerant
243375_PM_at	EST6	EST6	0.000162344	1.60156	On IS Tolerant up vs On IS Non-Tolerant

1558371_PM_a_at	EST7	EST7	0.000175939	2.14043	On IS Tolerant up vs On IS Non-Tolerant
213236_PM_at	SASH1	SAM and SH3 domain containing 1	0.00018004	2.01577	On IS Tolerant up vs On IS Non-Tolerant
204438_PM_at	MRC1 /// MRC1L1	mannose receptor, C type 1 /// mannose receptor, C type 1-like 1	0.000183272	1.71866	On IS Tolerant up vs On IS Non-Tolerant
203184_PM_at	FBN2	fibrillin 2	0.000196484	1.90675	On IS Tolerant up vs On IS Non-Tolerant
207291_PM_at	PRRG4	proline rich Gla (G-carboxyglutamic acid) 4 (transmembrane)	0.000198648	1.50941	On IS Tolerant up vs On IS Non-Tolerant
241098_PM_at	CLEC7A	C-type lectin domain family 7, member A	0.000199916	1.83982	On IS Tolerant up vs On IS Non-Tolerant
215415_PM_s_at	LYST	lysosomal trafficking regulator	0.000208852	1.73029	On IS Tolerant up vs On IS Non-Tolerant
202443_PM_x_at	NOTCH2	notch 2	0.000217078	1.19643	On IS Tolerant up vs On IS Non-Tolerant
221006_PM_s_at	SNX27	sorting nexin family member 27	0.000217292	1.43049	On IS Tolerant up vs On IS Non-Tolerant
225077_PM_at	CHD2	chromodomain helicase DNA binding protein 2	0.000218776	-1.29446	On IS Tolerant down vs On IS Non-Tolerant
218801_PM_at	UGGT2	UDP-glucose glycoprotein glucosyltransferase 2	0.000235695	1.56354	On IS Tolerant up vs On IS Non-Tolerant
203485_PM_at	RTN1	reticulon 1	0.000236432	1.72945	On IS Tolerant up vs On IS Non-Tolerant
226490_PM_at	NHSL1	NHS-like 1	0.000238769	1.41593	On IS Tolerant up vs On IS Non-Tolerant
222505_PM_at	LMBR1	limb region 1 homolog (mouse)	0.000250661	1.51102	On IS Tolerant up vs On IS Non-Tolerant
219968_PM_at	ZNF589	zinc finger protein 589	0.000253259	-1.4721	On IS Tolerant down vs On IS Non-Tolerant
232716_PM_at	EST8	EST8	0.000271885	1.81257	On IS Tolerant up vs On IS Non-Tolerant
243954_PM_at	LOC285286	hypothetical LOC285286	0.000274554	1.6678	On IS Tolerant up vs On IS Non-Tolerant
1560049_PM_at	EST9	EST9	0.000276424	-1.30964	On IS Tolerant down vs On IS Non-Tolerant
216697_PM_at	TRIO	Triple functional domain (PTPRF interacting)	0.000279837	1.47983	On IS Tolerant up vs On IS Non-Tolerant
226134_PM_s_at	EST10	EST10	0.000282483	-1.6119	On IS Tolerant down vs On IS Non-Tolerant
237387_PM_at	EST11	EST11	0.000289394	1.70597	On IS Tolerant up vs On IS Non-Tolerant
1552501_PM_a_at	GPBAR1	G protein-coupled bile acid receptor 1	0.000301841	1.55862	On IS Tolerant up vs On IS Non-Tolerant
236487_PM_at	SCLT1	sodium channel and clathrin linker 1	0.000304138	1.58943	On IS Tolerant up vs On IS Non-Tolerant
201995_PM_at	EXT1	exostosin 1	0.000312575	1.69216	On IS Tolerant up vs On IS Non-Tolerant
200944_PM_s_at	HMG1	high-mobility group nucleosome binding domain 1	0.00031701	-1.1956	On IS Tolerant down vs On IS Non-Tolerant
225240_PM_s_at	MSI2	musashi homolog 2 (Drosophila)	0.000344804	-1.50549	On IS Tolerant down vs On IS Non-Tolerant
203969_PM_at	PEX3	peroxisomal biogenesis factor 3	0.00036642	-1.4309	On IS Tolerant down vs On IS Non-Tolerant
203703_PM_s_at	TTLL4	tubulin tyrosine ligase-like family, member 4	0.000366905	1.34001	On IS Tolerant up vs On IS Non-Tolerant
211941_PM_s_at	PEBP1	phosphatidylethanolamine binding protein 1	0.000403964	-1.37962	On IS Tolerant down vs On IS Non-Tolerant
222721_PM_at	CNIH4	cornichon homolog 4 (Drosophila)	0.000408412	1.8728	On IS Tolerant up vs On IS Non-Tolerant
212348_PM_s_at	KDM1A	lysine (K)-specific demethylase 1A	0.000448652	-1.30202	On IS Tolerant down vs On IS Non-Tolerant
224610_PM_at	SNHG1	small nucleolar RNA host gene 1 (non-protein coding)	0.000458062	-1.3617	On IS Tolerant down vs On IS Non-Tolerant
213703_PM_at	LOC150759	hypothetical LOC150759	0.000529371	-1.75115	On IS Tolerant down vs On IS Non-Tolerant

227462_PM_at	ERAP2	endoplasmic reticulum aminopeptidase 2	0.000553049	-2.64472	On IS Tolerant down vs On IS Non-Tolerant
233465_PM_at	EST12	EST12	0.000558806	1.39747	On IS Tolerant up vs On IS Non-Tolerant
206995_PM_x_at	SCARF1	scavenger receptor class F, member 1	0.000574937	1.35203	On IS Tolerant up vs On IS Non-Tolerant
1558750_PM_a_at	LOC100288693	Hypothetical protein LOC100288693	0.000587461	-1.35078	On IS Tolerant down vs On IS Non-Tolerant
1555904_PM_at	EST13	EST13	0.000588685	1.39061	On IS Tolerant up vs On IS Non-Tolerant
1569536_PM_at	FLVCR2	feline leukemia virus subgroup C cellular receptor family, member 2	0.000589324	1.3443	On IS Tolerant up vs On IS Non-Tolerant
219700_PM_at	PLXDC1	plexin domain containing 1	0.000590652	-1.8347	On IS Tolerant down vs On IS Non-Tolerant
1555423_PM_at	SSH2	slingshot homolog 2 (Drosophila)	0.000594872	1.24597	On IS Tolerant up vs On IS Non-Tolerant
1565595_PM_at	EST14	EST14	0.000595553	-1.32062	On IS Tolerant down vs On IS Non-Tolerant
209298_PM_s_at	ITSN1	intersectin 1 (SH3 domain protein)	0.00060377	1.39283	On IS Tolerant up vs On IS Non-Tolerant
223861_PM_at	HORMAD1	HORMA domain containing 1	0.000611302	1.26907	On IS Tolerant up vs On IS Non-Tolerant
208297_PM_s_at	EVI5	ecotropic viral integration site 5	0.000630121	1.88392	On IS Tolerant up vs On IS Non-Tolerant
240948_PM_at	EST15	EST15	0.000658697	1.57919	On IS Tolerant up vs On IS Non-Tolerant
213114_PM_at	RER1	RER1 retention in endoplasmic reticulum 1 homolog (<i>S. cerevisiae</i>)	0.000678541	1.2064	On IS Tolerant up vs On IS Non-Tolerant
225894_PM_at	SYNPO2	synaptopodin 2	0.000700987	1.19306	On IS Tolerant up vs On IS Non-Tolerant
204294_PM_at	AMT	aminomethyltransferase	0.000701687	-1.36968	On IS Tolerant down vs On IS Non-Tolerant
221525_PM_at	ZMIZ2	zinc finger, MIZ-type containing 2	0.00070273	-1.28933	On IS Tolerant down vs On IS Non-Tolerant
218987_PM_at	ATF7IP	activating transcription factor 7 interacting protein	0.000702833	-1.4091	On IS Tolerant down vs On IS Non-Tolerant
207127_PM_s_at	HNRNPH3	heterogeneous nuclear ribonucleoprotein H3 (2H9)	0.000703895	-1.22404	On IS Tolerant down vs On IS Non-Tolerant
229249_PM_at	EST16	EST16	0.000708505	1.98304	On IS Tolerant up vs On IS Non-Tolerant
220961_PM_s_at	TBRG4	transforming growth factor beta regulator 4	0.000715442	-1.55877	On IS Tolerant down vs On IS Non-Tolerant
232663_PM_s_at	LOC390595	ubiquitin-associated protein 1-like	0.000715964	-1.28359	On IS Tolerant down vs On IS Non-Tolerant
235270_PM_at	ZNF397	zinc finger protein 397	0.000721988	1.24294	On IS Tolerant up vs On IS Non-Tolerant
1556042_PM_s_at	LOC338799	hypothetical LOC338799	0.000723125	-1.47371	On IS Tolerant down vs On IS Non-Tolerant
209475_PM_at	USP15	ubiquitin specific peptidase 15	0.000759446	1.37254	On IS Tolerant up vs On IS Non-Tolerant
214639_PM_s_at	HOXA1	homeobox A1	0.000771701	1.43428	On IS Tolerant up vs On IS Non-Tolerant
239410_PM_at	EST17	EST17	0.000778452	1.29741	On IS Tolerant up vs On IS Non-Tolerant
236780_PM_at	EST18	EST18	0.000813586	-1.25461	On IS Tolerant down vs On IS Non-Tolerant
224096_PM_at	EST19	EST19	0.000830343	1.24773	On IS Tolerant up vs On IS Non-Tolerant
221756_PM_at	PIK3IP1	phosphoinositide-3-kinase interacting protein 1	0.000847573	-1.57604	On IS Tolerant down vs On IS Non-Tolerant
213839_PM_at	CLMN	calmin (calponin-like, transmembrane)	0.000849634	1.69481	On IS Tolerant up vs On IS Non-Tolerant
235476_PM_at	TRIM59	tripartite motif-containing 59	0.000849744	-1.69442	On IS Tolerant down vs On IS Non-Tolerant
211794_PM_at	FYB	FYN binding protein	0.000866911	1.45704	On IS Tolerant up vs On IS Non-Tolerant
203523_PM_at	LSP1	lymphocyte-specific protein 1	0.000868367	1.42663	On IS Tolerant up vs On IS Non-Tolerant

235217_PM_at	LOC100216546	hypothetical LOC100216546	0.000886259	1.25332	On IS Tolerant up vs On IS Non-Tolerant
210724_PM_at	EMR3	egf-like module containing, mucin-like, hormone receptor-like 3	0.000892434	1.58314	On IS Tolerant up vs On IS Non-Tolerant
236065_PM_at	EST20	EST20	0.000894488	1.70367	On IS Tolerant up vs On IS Non-Tolerant
223068_PM_at	EML4	echinoderm microtubule associated protein like 4	0.000899857	-1.29613	On IS Tolerant down vs On IS Non-Tolerant
208189_PM_s_at	MYO7A	myosin VIIA	0.000906878	1.3282	On IS Tolerant up vs On IS Non-Tolerant
242313_PM_at	LOC728730	Hypothetical LOC728730	0.000911117	-1.22693	On IS Tolerant down vs On IS Non-Tolerant
213559_PM_s_at	ZNF467	Zinc finger protein 467	0.000912929	1.20635	On IS Tolerant up vs On IS Non-Tolerant
231399_PM_at	RAB3IP	RAB3A interacting protein (rabin3)	0.000918641	-1.31545	On IS Tolerant down vs On IS Non-Tolerant
214014_PM_at	CDC42EP2	CDC42 effector protein (Rho GTPase binding) 2	0.000920256	1.33056	On IS Tolerant up vs On IS Non-Tolerant
1558467_PM_a_at	UGGT2	UDP-glucose glycoprotein glucosyltransferase 2	0.000920992	1.33829	On IS Tolerant up vs On IS Non-Tolerant
226022_PM_at	SASH1	SAM and SH3 domain containing 1	0.000932098	2.01013	On IS Tolerant up vs On IS Non-Tolerant
226425_PM_at	CLIP4	CAP-GLY domain containing linker protein family, member 4	0.000943092	1.37648	On IS Tolerant up vs On IS Non-Tolerant
213496_PM_at	LPPR4	lipid phosphate phosphatase-related protein type 4	0.00094449	1.29768	On IS Tolerant up vs On IS Non-Tolerant
219147_PM_s_at	C9orf95	chromosome 9 open reading frame 95	0.00101489	-1.64885	On IS Tolerant down vs On IS Non-Tolerant
225048_PM_at	PHF10	PHD finger protein 10	0.00101887	-1.56992	On IS Tolerant down vs On IS Non-Tolerant
244257_PM_at	EST21	EST21	0.00103066	1.91134	On IS Tolerant up vs On IS Non-Tolerant
243376_PM_at	EST22	EST22	0.00103747	1.4226	On IS Tolerant up vs On IS Non-Tolerant
222047_PM_s_at	SRRT	serrate RNA effector molecule homolog (Arabidopsis)	0.00103974	-1.22688	On IS Tolerant down vs On IS Non-Tolerant
203624_PM_at	AKAP17A	A kinase (PRKA) anchor protein 17A	0.00106299	-1.18807	On IS Tolerant down vs On IS Non-Tolerant
203079_PM_s_at	CUL2	cullin 2	0.00106372	-1.22598	On IS Tolerant down vs On IS Non-Tolerant
228456_PM_s_at	CDS2 /// LOC149832	CDP-diacylglycerol synthase (phosphatidate cytidyltransferase) 2 /// hypothetical pro	0.00106725	-1.26389	On IS Tolerant down vs On IS Non-Tolerant
229250_PM_at	TPCN2	two pore segment channel 2	0.00108121	1.49417	On IS Tolerant up vs On IS Non-Tolerant
205212_PM_s_at	ACAP1	ArfGAP with coiled-coil, ankyrin repeat and PH domains 1	0.00108198	-1.39005	On IS Tolerant down vs On IS Non-Tolerant
227031_PM_at	SNX13	sorting nexin 13	0.00108631	1.30041	On IS Tolerant up vs On IS Non-Tolerant
1568853_PM_at	EST23	EST23	0.00110391	-1.26018	On IS Tolerant down vs On IS Non-Tolerant
201104_PM_x_at	NBPF1	neuroblastoma breakpoint family, member 1 /// neuroblastoma breakpoint family, member 1	0.00112874	-1.20748	On IS Tolerant down vs On IS Non-Tolerant
1556988_PM_s_at	CHD1L	chromodomain helicase DNA binding protein 1-like	0.00115701	-1.29547	On IS Tolerant down vs On IS Non-Tolerant
213666_PM_at	SEPT6	septin 6	0.00118085	-1.51174	On IS Tolerant down vs On IS Non-Tolerant

215412_PM_x_at	PMS2L2	postmeiotic segregation increased 2-like 2 pseudogene	0.00118258	-1.31559	On IS Tolerant down vs On IS Non-Tolerant
242043_PM_s_at	EST24	EST24	0.00119548	1.25239	On IS Tolerant up vs On IS Non-Tolerant
211196_PM_at	DBT	dihydrolipoamide branched chain transacylase E2	0.00119725	1.21804	On IS Tolerant up vs On IS Non-Tolerant
210222_PM_s_at	RTN1	reticulon 1	0.00119973	1.53784	On IS Tolerant up vs On IS Non-Tolerant
233302_PM_at	EST25	EST25	0.00120789	-2.05977	On IS Tolerant down vs On IS Non-Tolerant
232139_PM_s_at	KIAA1919	KIAA1919	0.0012192	1.32903	On IS Tolerant up vs On IS Non-Tolerant
217742_PM_s_at	WAC	WW domain containing adaptor with coiled-coil	0.00129831	-1.1266	On IS Tolerant down vs On IS Non-Tolerant
1562608_PM_at	EST26	EST26	0.00131636	1.66286	On IS Tolerant up vs On IS Non-Tolerant
225757_PM_s_at	CLMN	calmin (calponin-like, transmembrane)	0.00136049	1.3782	On IS Tolerant up vs On IS Non-Tolerant
1552798_PM_a_at	TLR4	toll-like receptor 4	0.00140603	1.75359	On IS Tolerant up vs On IS Non-Tolerant
242153_PM_at	LARP1B	La ribonucleoprotein domain family, member 1B	0.00142442	1.22858	On IS Tolerant up vs On IS Non-Tolerant
200906_PM_s_at	PALLD	palladin, cytoskeletal associated protein	0.00142584	1.82569	On IS Tolerant up vs On IS Non-Tolerant
233436_PM_at	MTBP	Mdm2, transformed 3T3 cell double minute 2, p53 binding protein (mouse) binding protein	0.00143314	-1.22021	On IS Tolerant down vs On IS Non-Tolerant
210835_PM_s_at	CTBP2	C-terminal binding protein 2	0.00143928	1.35889	On IS Tolerant up vs On IS Non-Tolerant
217550_PM_at	ATF6	activating transcription factor 6	0.00144249	1.54486	On IS Tolerant up vs On IS Non-Tolerant
237185_PM_at	EST27	EST27	0.00147857	-1.37403	On IS Tolerant down vs On IS Non-Tolerant
201779_PM_s_at	RNF13	ring finger protein 13	0.00147981	1.24367	On IS Tolerant up vs On IS Non-Tolerant
231016_PM_s_at	ARNT	Aryl hydrocarbon receptor nuclear translocator	0.00149643	1.37476	On IS Tolerant up vs On IS Non-Tolerant
1558915_PM_a_at	PEX14	peroxisomal biogenesis factor 14	0.00152911	-1.26055	On IS Tolerant down vs On IS Non-Tolerant
227135_PM_at	NAAA	N-acyl ethanolamine acid amidase	0.00153913	1.331	On IS Tolerant up vs On IS Non-Tolerant
212539_PM_at	CHD1L	chromodomain helicase DNA binding protein 1-like	0.00154397	-1.17291	On IS Tolerant down vs On IS Non-Tolerant
1570339_PM_x_at	EST28	EST28	0.00159313	-1.29784	On IS Tolerant down vs On IS Non-Tolerant
208072_PM_s_at	DGKD	diacylglycerol kinase, delta 130kDa	0.0016045	-1.25521	On IS Tolerant down vs On IS Non-Tolerant
215768_PM_at	EST29	EST29	0.0016629	-1.64092	On IS Tolerant down vs On IS Non-Tolerant
217778_PM_at	SLC39A1	solute carrier family 39 (zinc transporter), member 1	0.00166394	1.33166	On IS Tolerant up vs On IS Non-Tolerant
232677_PM_at	EST30	EST30	0.00166781	-1.33788	On IS Tolerant down vs On IS Non-Tolerant
212413_PM_at	SEPT6	septin 6	0.00173451	-1.54118	On IS Tolerant down vs On IS Non-Tolerant
236423_PM_at	EST31	EST31	0.00173975	1.35296	On IS Tolerant up vs On IS Non-Tolerant
237753_PM_at	IL21R	interleukin 21 receptor	0.00175501	-1.77149	On IS Tolerant down vs On IS Non-Tolerant
227887_PM_at	LOC400236	hypothetical LOC400236	0.00175505	1.30182	On IS Tolerant up vs On IS Non-Tolerant
215639_PM_at	SH2D3C	SH2 domain containing 3C	0.00177381	1.52392	On IS Tolerant up vs On IS Non-Tolerant

212493_PM_s_at	SETD2	SET domain containing 2	0.00180245	-1.18007	On IS Tolerant down vs On IS Non-Tolerant
238129_PM_s_at	EST32	EST32	0.00183157	1.27486	On IS Tolerant up vs On IS Non-Tolerant
214427_PM_at	NOP2	NOP2 nucleolar protein homolog (yeast)	0.00184734	-1.24994	On IS Tolerant down vs On IS Non-Tolerant
226459_PM_at	PIK3AP1	phosphoinositide-3-kinase adaptor protein 1	0.00187723	1.27718	On IS Tolerant up vs On IS Non-Tolerant
215767_PM_at	ZNF804A	zinc finger protein 804A	0.0018853	1.28609	On IS Tolerant up vs On IS Non-Tolerant
59697_PM_at	RAB15	RAB15, member RAS oncogene family	0.00188744	-1.33639	On IS Tolerant down vs On IS Non-Tolerant
201189_PM_s_at	ITPR3	inositol 1,4,5-triphosphate receptor, type 3	0.00190103	-1.53744	On IS Tolerant down vs On IS Non-Tolerant
203579_PM_s_at	SLC7A6	solute carrier family 7 (cationic amino acid transporter, y+ system), member 6	0.00190865	-1.58014	On IS Tolerant down vs On IS Non-Tolerant
207437_PM_at	NOVA1	neuro-oncological ventral antigen 1	0.00191625	-1.36418	On IS Tolerant down vs On IS Non-Tolerant
200629_PM_at	WARS	tryptophanyl-tRNA synthetase	0.00192195	1.37924	On IS Tolerant up vs On IS Non-Tolerant
40489_PM_at	ATN1	atrophin 1	0.00193353	-1.16618	On IS Tolerant down vs On IS Non-Tolerant
233802_PM_at	EST33	EST33	0.00194704	1.20121	On IS Tolerant up vs On IS Non-Tolerant
204495_PM_s_at	C15orf39	chromosome 15 open reading frame 39	0.00194945	1.48441	On IS Tolerant up vs On IS Non-Tolerant
219759_PM_at	ERAP2	endoplasmic reticulum aminopeptidase 2	0.00197116	-3.1383	On IS Tolerant down vs On IS Non-Tolerant
211965_PM_at	ZFP36L1	zinc finger protein 36, C3H type-like 1	0.00198174	1.74248	On IS Tolerant up vs On IS Non-Tolerant
223781_PM_x_at	ADH4	alcohol dehydrogenase 4 (class II), pi polypeptide	0.00198537	-1.44872	On IS Tolerant down vs On IS Non-Tolerant
200754_PM_x_at	SRSF2	serine/arginine-rich splicing factor 2	0.00199277	-1.1495	On IS Tolerant down vs On IS Non-Tolerant
225492_PM_at	TMEM33	transmembrane protein 33	0.00199977	1.27502	On IS Tolerant up vs On IS Non-Tolerant
212071_PM_s_at	SPTBN1	spectrin, beta, non-erythrocytic 1	0.00200735	-1.48614	On IS Tolerant down vs On IS Non-Tolerant
207376_PM_at	VENTX	VENT homeobox homolog (Xenopus laevis)	0.00202649	1.38795	On IS Tolerant up vs On IS Non-Tolerant
224550_PM_s_at	MRV1	murine retrovirus integration site 1 homolog	0.00202914	1.34921	On IS Tolerant up vs On IS Non-Tolerant
1554699_PM_at	L3MBTL4	l(3)mbt-like 4 (Drosophila)	0.00203729	-1.19585	On IS Tolerant down vs On IS Non-Tolerant
208771_PM_s_at	LTA4H	leukotriene A4 hydrolase	0.00205093	1.41068	On IS Tolerant up vs On IS Non-Tolerant
1561362_PM_at	EST34	EST34	0.00205307	-1.45492	On IS Tolerant down vs On IS Non-Tolerant
1555935_PM_s_at	HUNK	hormonally up-regulated Neu-associated kinase	0.00208634	-1.2227	On IS Tolerant down vs On IS Non-Tolerant
1557828_PM_a_at	C5orf28	Chromosome 5 open reading frame 28	0.00209832	-1.51242	On IS Tolerant down vs On IS Non-Tolerant
242010_PM_at	LOC728475	Hypothetical LOC728475	0.00212837	-1.23437	On IS Tolerant down vs On IS Non-Tolerant
212237_PM_at	ASXL1	additional sex combs like 1 (Drosophila)	0.00214421	-1.28397	On IS Tolerant down vs On IS Non-Tolerant
1553062_PM_at	MOGAT1	monoacylglycerol O-acyltransferase 1	0.00215743	-1.19455	On IS Tolerant down vs On IS Non-Tolerant
222115_PM_x_at	GLYR1	glyoxylate reductase 1 homolog (Arabidopsis)	0.00216975	-1.22254	On IS Tolerant down vs On IS Non-Tolerant
228074_PM_at	ITPRIPL2	inositol 1,4,5-triphosphate receptor interacting protein-like 2	0.00217804	1.28679	On IS Tolerant up vs On IS Non-Tolerant
228416_PM_at	ACVR2A	activin A receptor, type IIA	0.00217908	1.61181	On IS Tolerant up vs On IS Non-Tolerant
210290_PM_at	ZNF174	zinc finger protein 174	0.00218648	1.31878	On IS Tolerant up vs On IS Non-Tolerant
215761_PM_at	DMXL2	Dmx-like 2	0.00219184	1.9666	On IS Tolerant up vs On IS Non-Tolerant
200912_PM_s_at	EIF4A2	eukaryotic translation initiation factor 4A2	0.0022248	-1.13546	On IS Tolerant down vs On IS Non-Tolerant

231697_PM_s_at	EST35	EST35	0.00222841	1.81824	On IS Tolerant up vs On IS Non-Tolerant
232559_PM_at	EST36	EST36	0.00225354	1.28065	On IS Tolerant up vs On IS Non-Tolerant
218221_PM_at	ARNT	aryl hydrocarbon receptor nuclear translocator	0.00227767	1.51095	On IS Tolerant up vs On IS Non-Tolerant
228383_PM_at	PNPLA7	patatin-like phospholipase domain containing 7	0.00227948	-1.22634	On IS Tolerant down vs On IS Non-Tolerant
219236_PM_at	PAQR6	progesterone and adipoQ receptor family member VI	0.00230997	1.3238	On IS Tolerant up vs On IS Non-Tolerant
227914_PM_s_at	UBE3B	Ubiquitin protein ligase E3B	0.00232015	-1.18859	On IS Tolerant down vs On IS Non-Tolerant
242300_PM_at	EST37	EST37	0.00233675	1.73507	On IS Tolerant up vs On IS Non-Tolerant
229982_PM_at	QSER1	glutamine and serine rich 1	0.00233725	1.53444	On IS Tolerant up vs On IS Non-Tolerant
229872_PM_s_at	LOC100132999	hypothetical LOC100132999	0.00235444	-1.41787	On IS Tolerant down vs On IS Non-Tolerant
48580_PM_at	CXXC1	CXXC finger protein 1	0.00239271	-1.20364	On IS Tolerant down vs On IS Non-Tolerant
244387_PM_at	EST38	EST38	0.00246984	-1.68632	On IS Tolerant down vs On IS Non-Tolerant
229107_PM_at	EST39	EST39	0.0024877	1.34194	On IS Tolerant up vs On IS Non-Tolerant
243745_PM_at	EST40	EST40	0.00254038	1.61364	On IS Tolerant up vs On IS Non-Tolerant
241947_PM_at	LOC100233209	hypothetical LOC100233209	0.00254549	-1.41765	On IS Tolerant down vs On IS Non-Tolerant
236333_PM_at	EST41	EST41	0.00255429	-1.25424	On IS Tolerant down vs On IS Non-Tolerant
236094_PM_at	TCF7L2	Transcription factor 7-like 2 (T-cell specific, HMG-box)	0.00256728	1.7151	On IS Tolerant up vs On IS Non-Tolerant
243252_PM_at	EST42	EST42	0.00259076	1.30293	On IS Tolerant up vs On IS Non-Tolerant
233274_PM_at	EST43	EST43	0.00259721	-1.3407	On IS Tolerant down vs On IS Non-Tolerant
227560_PM_at	SFXN2	sideroflexin 2	0.00260328	-1.3503	On IS Tolerant down vs On IS Non-Tolerant
220635_PM_at	PSORS1C2	psoriasis susceptibility 1 candidate 2	0.00261215	-1.20083	On IS Tolerant down vs On IS Non-Tolerant
242251_PM_at	SPATA5	spermatogenesis associated 5	0.00262049	1.20862	On IS Tolerant up vs On IS Non-Tolerant
227954_PM_at	ITPRIPL2	inositol 1,4,5-triphosphate receptor interacting protein-like 2	0.00263318	1.5184	On IS Tolerant up vs On IS Non-Tolerant
241344_PM_at	EST44	EST44	0.00264155	1.48611	On IS Tolerant up vs On IS Non-Tolerant
1561219_PM_x_at	EST45	EST45	0.00265218	-1.24311	On IS Tolerant down vs On IS Non-Tolerant
239726_PM_at	EST46	EST46	0.00265487	-1.77307	On IS Tolerant down vs On IS Non-Tolerant
223597_PM_at	ITLN1	intelectin 1 (galactofuranose binding)	0.0026747	1.49148	On IS Tolerant up vs On IS Non-Tolerant
201674_PM_s_at	AKAP1	A kinase (PRKA) anchor protein 1	0.00268192	-1.26978	On IS Tolerant down vs On IS Non-Tolerant
216456_PM_at	EST47	EST47	0.0026893	-1.18567	On IS Tolerant down vs On IS Non-Tolerant
223683_PM_at	ZMYND15	zinc finger, MYND-type containing 15	0.00269335	1.18532	On IS Tolerant up vs On IS Non-Tolerant
236436_PM_at	SLC25A45	solute carrier family 25, member 45	0.00270521	-1.38228	On IS Tolerant down vs On IS Non-Tolerant
227995_PM_at	EST48	EST48	0.00271781	1.58513	On IS Tolerant up vs On IS Non-Tolerant
205213_PM_at	ACAP1	ArfGAP with coiled-coil, ankyrin repeat and PH domains 1	0.00273966	-1.39633	On IS Tolerant down vs On IS Non-Tolerant
229121_PM_at	CMKLR1	chemokine-like receptor 1	0.00275632	1.56878	On IS Tolerant up vs On IS Non-Tolerant
219101_PM_x_at	ABHD8	abhydrolase domain containing 8	0.00280451	1.18604	On IS Tolerant up vs On IS Non-Tolerant
231886_PM_at	LOC100134822	similar to hCG1739109	0.00282332	-1.42326	On IS Tolerant down vs On IS Non-Tolerant

237875_PM_at	EST49	EST49	0.00284072	1.76982	On IS Tolerant up vs On IS Non-Tolerant
1552554_PM_a_at	NLRC4	NLR family, CARD domain containing 4	0.00285608	1.20661	On IS Tolerant up vs On IS Non-Tolerant
240409_PM_at	SUGT1P3	suppressor of G2 allele of SKP1 (<i>S. cerevisiae</i>) pseudogene 3	0.00286706	1.18303	On IS Tolerant up vs On IS Non-Tolerant
200790_PM_at	ODC1	ornithine decarboxylase 1	0.00288849	-1.34396	On IS Tolerant down vs On IS Non-Tolerant
1554539_PM_a_at	RHOF	ras homolog gene family, member F (in filopodia)	0.00289524	-1.46999	On IS Tolerant down vs On IS Non-Tolerant
1556352_PM_at	EST50	EST50	0.0028957	1.77301	On IS Tolerant up vs On IS Non-Tolerant
227353_PM_at	TMC8	transmembrane channel-like 8	0.00290816	-1.372	On IS Tolerant down vs On IS Non-Tolerant
203207_PM_s_at	MTFR1	mitochondrial fission regulator 1	0.00292124	1.3195	On IS Tolerant up vs On IS Non-Tolerant
210110_PM_x_at	HNRNPH3	heterogeneous nuclear ribonucleoprotein H3 (2H9)	0.0029254	-1.21223	On IS Tolerant down vs On IS Non-Tolerant
228933_PM_at	NHS	Nance-Horan syndrome (congenital cataracts and dental anomalies)	0.00293318	1.59129	On IS Tolerant up vs On IS Non-Tolerant
225919_PM_s_at	C9orf72	chromosome 9 open reading frame 72	0.00293522	1.36868	On IS Tolerant up vs On IS Non-Tolerant
221959_PM_at	FAM110B	family with sequence similarity 110, member B	0.00294605	1.38993	On IS Tolerant up vs On IS Non-Tolerant
237071_PM_at	EST51	EST51	0.00295553	1.36412	On IS Tolerant up vs On IS Non-Tolerant
215592_PM_at	EST52	EST52	0.00295984	-1.65004	On IS Tolerant down vs On IS Non-Tolerant
203385_PM_at	DGKA	diacylglycerol kinase, alpha 80kDa	0.00300376	-1.70733	On IS Tolerant down vs On IS Non-Tolerant
226139_PM_at	CCDC149	coiled-coil domain containing 149	0.00302609	1.52857	On IS Tolerant up vs On IS Non-Tolerant
229199_PM_at	SCN9A	sodium channel, voltage-gated, type IX, alpha subunit	0.00304159	1.1841	On IS Tolerant up vs On IS Non-Tolerant
202377_PM_at	LEPROT	leptin receptor overlapping transcript	0.00304169	1.379	On IS Tolerant up vs On IS Non-Tolerant
241193_PM_at	ETS2	V-ets erythroblastosis virus E26 oncogene homolog 2 (avian)	0.0030814	1.53998	On IS Tolerant up vs On IS Non-Tolerant
1568870_PM_at	SLC24A4	solute carrier family 24 (sodium/potassium/calcium exchanger), member 4	0.00308654	1.41378	On IS Tolerant up vs On IS Non-Tolerant
239056_PM_at	SEC22C	SEC22 vesicle trafficking protein homolog C (<i>S. cerevisiae</i>)	0.00308776	-1.21172	On IS Tolerant down vs On IS Non-Tolerant
242065_PM_x_at	IDI1	isopentenyl-diphosphate delta isomerase 1	0.00309166	-1.29549	On IS Tolerant down vs On IS Non-Tolerant
1558466_PM_at	UGGT2	UDP-glucose glycoprotein glucosyltransferase 2	0.00310115	1.2547	On IS Tolerant up vs On IS Non-Tolerant
229648_PM_at	ARHGAP32	Rho GTPase activating protein 32	0.00313615	1.38564	On IS Tolerant up vs On IS Non-Tolerant
1555926_PM_a_at	EST53	EST53	0.00315967	-1.41154	On IS Tolerant down vs On IS Non-Tolerant
225715_PM_at	RPTOR	regulatory associated protein of MTOR, complex 1	0.00316758	-1.20511	On IS Tolerant down vs On IS Non-Tolerant
224931_PM_at	SLC41A3	solute carrier family 41, member 3	0.00317208	-1.31993	On IS Tolerant down vs On IS Non-Tolerant

212356_PM_at	KHNYN	KH and NYN domain containing	0.003211	-1.24526	On IS Tolerant down vs On IS Non-Tolerant
236553_PM_at	LOC100508546	hypothetical LOC100508546	0.0032124	1.32901	On IS Tolerant up vs On IS Non-Tolerant
218301_PM_at	RNPEPL1	arginyl aminopeptidase (aminopeptidase B)-like 1	0.00322018	1.28849	On IS Tolerant up vs On IS Non-Tolerant
227808_PM_at	DNAJC15	DnaJ (Hsp40) homolog, subfamily C, member 15	0.00326096	1.60316	On IS Tolerant up vs On IS Non-Tolerant
221042_PM_s_at	CLMN	calmin (calponin-like, transmembrane)	0.0032653	1.5875	On IS Tolerant up vs On IS Non-Tolerant
220295_PM_x_at	DEPDC1	DEP domain containing 1	0.00331586	-1.26908	On IS Tolerant down vs On IS Non-Tolerant
205872_PM_x_at	PDE4DIP	Phosphodiesterase 4D interacting protein	0.00334855	-1.37734	On IS Tolerant down vs On IS Non-Tolerant
203965_PM_at	USP20	ubiquitin specific peptidase 20	0.00338997	-1.31624	On IS Tolerant down vs On IS Non-Tolerant
238458_PM_at	EFHA2	EF-hand domain family, member A2	0.00344166	1.29499	On IS Tolerant up vs On IS Non-Tolerant
1562896_PM_at	TNRC18	trinucleotide repeat containing 18	0.00346386	-1.27932	On IS Tolerant down vs On IS Non-Tolerant
208714_PM_at	NDUFV1	NADH dehydrogenase (ubiquinone) flavoprotein 1, 51kDa	0.00346914	-1.20789	On IS Tolerant down vs On IS Non-Tolerant
231780_PM_at	GBGT1	globoside alpha-1,3-N-acetylgalactosaminyltransferase 1	0.00347997	1.45787	On IS Tolerant up vs On IS Non-Tolerant
234946_PM_at	ENTPD6	ectonucleoside triphosphate diphosphohydrolase 6 (putative)	0.00348432	1.19655	On IS Tolerant up vs On IS Non-Tolerant
1559066_PM_at	EST54	EST54	0.00354712	1.30899	On IS Tolerant up vs On IS Non-Tolerant
201294_PM_s_at	WSB1	WD repeat and SOCS box-containing 1	0.00355145	1.91381	On IS Tolerant up vs On IS Non-Tolerant
203057_PM_s_at	PRDM2	PR domain containing 2, with ZNF domain	0.00356456	-1.24264	On IS Tolerant down vs On IS Non-Tolerant
239152_PM_at	EST55	EST55	0.00357356	1.33634	On IS Tolerant up vs On IS Non-Tolerant
243074_PM_at	EST56	EST56	0.00361393	1.24063	On IS Tolerant up vs On IS Non-Tolerant
1564274_PM_at	C9orf47	chromosome 9 open reading frame 47	0.00362489	1.46301	On IS Tolerant up vs On IS Non-Tolerant
218754_PM_at	NOL9	nucleolar protein 9	0.00367963	-1.29662	On IS Tolerant down vs On IS Non-Tolerant
211168_PM_s_at	UPF1	UPF1 regulator of nonsense transcripts homolog (yeast)	0.00368393	-1.249	On IS Tolerant down vs On IS Non-Tolerant
244519_PM_at	ASXL1	additional sex combs like 1 (Drosophila)	0.00371844	-1.41294	On IS Tolerant down vs On IS Non-Tolerant
218552_PM_at	ECHDC2	enoyl CoA hydratase domain containing 2	0.00372183	-1.37749	On IS Tolerant down vs On IS Non-Tolerant
201480_PM_s_at	SUPT5H	suppressor of Ty 5 homolog (S. cerevisiae)	0.00375259	-1.20813	On IS Tolerant down vs On IS Non-Tolerant
212242_PM_at	TUBA4A	tubulin, alpha 4a	0.00377324	-1.48644	On IS Tolerant down vs On IS Non-Tolerant
234956_PM_at	LOC93444	hypothetical protein LOC93444	0.00377377	1.19576	On IS Tolerant up vs On IS Non-Tolerant
227039_PM_at	AKAP13	A kinase (PRKA) anchor protein 13	0.00378162	1.67459	On IS Tolerant up vs On IS Non-Tolerant
242281_PM_at	GLUL	glutamate-ammonia ligase	0.00380178	1.41444	On IS Tolerant up vs On IS Non-Tolerant
211900_PM_x_at	CD6	CD6 molecule	0.00382697	-1.3527	On IS Tolerant down vs On IS Non-Tolerant
235104_PM_at	ERAP2	endoplasmic reticulum aminopeptidase 2	0.0038389	-2.55664	On IS Tolerant down vs On IS Non-Tolerant
1563052_PM_at	EST57	EST57	0.00384276	-1.22881	On IS Tolerant down vs On IS Non-Tolerant
1568287_PM_at	HMGA2	high mobility group AT-hook 2	0.00386772	-1.23524	On IS Tolerant down vs On IS Non-Tolerant
1555483_PM_x_at	FBLIM1	filamin binding LIM protein 1	0.00387694	1.19728	On IS Tolerant up vs On IS Non-Tolerant
244332_PM_at	EST58	EST58	0.00390468	2.08715	On IS Tolerant up vs On IS Non-Tolerant

215160_PM_x_at	LOC100509419 /// LOC100510581	protein FRG1B-like /// protein FRG1-like /// FSHD region gene 1 pseudogene	0.00390841	-1.26615	On IS Tolerant down vs On IS Non-Tolerant
221206_PM_at	PMS2 /// PMS2CL	PMS2 postmeiotic segregation increased 2 (S. cerevisiae) /// PMS2 C-terminal like pseud	0.00392803	-1.33611	On IS Tolerant down vs On IS Non-Tolerant
240690_PM_at	EST59	EST59	0.00395126	-1.5268	On IS Tolerant down vs On IS Non-Tolerant
242438_PM_at	ASXL1	additional sex combs like 1 (Drosophila)	0.00397087	-1.43355	On IS Tolerant down vs On IS Non-Tolerant
1554172_PM_a_at	ZMYM3	zinc finger, MYM-type 3	0.00397139	1.26666	On IS Tolerant up vs On IS Non-Tolerant
225589_PM_at	SH3RF1	SH3 domain containing ring finger 1	0.00400516	1.30299	On IS Tolerant up vs On IS Non-Tolerant
237999_PM_at	EST60	EST60	0.00403405	1.26559	On IS Tolerant up vs On IS Non-Tolerant
208438_PM_s_at	FGR	Gardner-Rasheed feline sarcoma viral (v-fgr) oncogene homolog	0.00404401	1.20218	On IS Tolerant up vs On IS Non-Tolerant
213633_PM_at	SH3BP1	SH3-domain binding protein 1	0.0041111	1.20522	On IS Tolerant up vs On IS Non-Tolerant
207522_PM_s_at	ATP2A3	ATPase, Ca++ transporting, ubiquitous	0.00412561	-1.39862	On IS Tolerant down vs On IS Non-Tolerant
217902_PM_s_at	HERC2	hect domain and RLD 2	0.00414944	-1.38676	On IS Tolerant down vs On IS Non-Tolerant
242738_PM_s_at	ZFH3	zinc finger homeobox 3	0.00418444	1.48848	On IS Tolerant up vs On IS Non-Tolerant
236587_PM_at	EST61	EST61	0.00419638	1.29313	On IS Tolerant up vs On IS Non-Tolerant
203104_PM_at	CSF1R	colony stimulating factor 1 receptor	0.00419795	1.41888	On IS Tolerant up vs On IS Non-Tolerant
227556_PM_at	NME7	non-metastatic cells 7, protein expressed in (nucleoside-diphosphate kinase)	0.00421366	1.30164	On IS Tolerant up vs On IS Non-Tolerant
206688_PM_s_at	CPSF4	cleavage and polyadenylation specific factor 4, 30kDa	0.00421378	-1.15316	On IS Tolerant down vs On IS Non-Tolerant
223161_PM_at	KIAA1147	KIAA1147	0.00423006	-1.44995	On IS Tolerant down vs On IS Non-Tolerant
237289_PM_at	CREB1	cAMP responsive element binding protein 1	0.00423123	1.37414	On IS Tolerant up vs On IS Non-Tolerant
204555_PM_s_at	PPP1R3D	protein phosphatase 1, regulatory (inhibitor) subunit 3D	0.00423255	1.30068	On IS Tolerant up vs On IS Non-Tolerant
200907_PM_s_at	PALLD	palladin, cytoskeletal associated protein	0.00423696	1.84596	On IS Tolerant up vs On IS Non-Tolerant
228035_PM_at	STK33	serine/threonine kinase 33	0.00425031	1.22147	On IS Tolerant up vs On IS Non-Tolerant
216277_PM_at	BUB1	budding uninhibited by benzimidazoles 1 homolog (yeast)	0.0042594	-1.31203	On IS Tolerant down vs On IS Non-Tolerant
229390_PM_at	FAM26F	family with sequence similarity 26, member F	0.00427031	1.57764	On IS Tolerant up vs On IS Non-Tolerant
229934_PM_at	EST62	EST62	0.00428277	1.67347	On IS Tolerant up vs On IS Non-Tolerant
200773_PM_x_at	PTMA	prothymosin, alpha	0.00431661	-1.06421	On IS Tolerant down vs On IS Non-Tolerant
237897_PM_at	LOC100506357	hypothetical LOC100506357	0.00432202	1.25347	On IS Tolerant up vs On IS Non-Tolerant
204526_PM_s_at	TBC1D8	TBC1 domain family, member 8 (with GRAM domain)	0.004361	1.49598	On IS Tolerant up vs On IS Non-Tolerant
214756_PM_x_at	PMS2P1	postmeiotic segregation increased 2 pseudogene 1	0.00437912	-1.2336	On IS Tolerant down vs On IS Non-Tolerant

235551_PM_at	WDR4	WD repeat domain 4	0.00438533	-1.18742	On IS Tolerant down vs On IS Non-Tolerant
229577_PM_at	AGPAT6	1-acylglycerol-3-phosphate O-acyltransferase 6 (lysophosphatidic acid acyltransferase,	0.00438765	-1.29812	On IS Tolerant down vs On IS Non-Tolerant
229185_PM_at	LIFR	leukemia inhibitory factor receptor alpha	0.00442125	-1.17233	On IS Tolerant down vs On IS Non-Tolerant
236769_PM_at	LOC158402	hypothetical protein LOC158402	0.00444098	1.56916	On IS Tolerant up vs On IS Non-Tolerant
243184_PM_at	EST63	EST63	0.00445752	-1.30515	On IS Tolerant down vs On IS Non-Tolerant
216387_PM_x_at	EST64	EST64	0.00447168	-1.19728	On IS Tolerant down vs On IS Non-Tolerant
214494_PM_s_at	SPG7	spastic paraplegia 7 (pure and complicated autosomal recessive)	0.00447169	-1.24021	On IS Tolerant down vs On IS Non-Tolerant
200941_PM_at	HSBP1	heat shock factor binding protein 1	0.00448945	1.32216	On IS Tolerant up vs On IS Non-Tolerant
225283_PM_at	ARRDC4	arrestin domain containing 4	0.00452094	1.64899	On IS Tolerant up vs On IS Non-Tolerant
209367_PM_at	STXBP2	syntaxin binding protein 2	0.00452815	1.44942	On IS Tolerant up vs On IS Non-Tolerant
206015_PM_s_at	FOXJ3	forkhead box J3	0.00454188	-1.1543	On IS Tolerant down vs On IS Non-Tolerant
220162_PM_s_at	CARD9	caspase recruitment domain family, member 9	0.00458944	1.3428	On IS Tolerant up vs On IS Non-Tolerant
242644_PM_at	TMC8	transmembrane channel-like 8	0.00459163	-1.46446	On IS Tolerant down vs On IS Non-Tolerant
228134_PM_at	MYH11	myosin, heavy chain 11, smooth muscle	0.00460873	1.24445	On IS Tolerant up vs On IS Non-Tolerant
1569190_PM_at	SCLT1	sodium channel and clathrin linker 1	0.00461537	1.3111	On IS Tolerant up vs On IS Non-Tolerant
242642_PM_at	EST65	EST65	0.0046268	1.8329	On IS Tolerant up vs On IS Non-Tolerant
213958_PM_at	CD6	CD6 molecule	0.00462902	-1.58856	On IS Tolerant down vs On IS Non-Tolerant
222462_PM_s_at	BACE1	beta-site APP-cleaving enzyme 1	0.00465233	1.27502	On IS Tolerant up vs On IS Non-Tolerant
227784_PM_s_at	COG1	component of oligomeric golgi complex 1	0.00465357	-1.36633	On IS Tolerant down vs On IS Non-Tolerant
234291_PM_s_at	SLC6A20	solute carrier family 6 (proline IMINO transporter), member 20	0.00465989	1.18559	On IS Tolerant up vs On IS Non-Tolerant
219419_PM_at	RBFA	ribosome binding factor A (putative)	0.00466205	-1.26701	On IS Tolerant down vs On IS Non-Tolerant
219491_PM_at	LRFN4	leucine rich repeat and fibronectin type III domain containing 4	0.00467369	-1.23307	On IS Tolerant down vs On IS Non-Tolerant
238893_PM_at	LOC338758	hypothetical LOC338758	0.00469078	1.54663	On IS Tolerant up vs On IS Non-Tolerant
220742_PM_s_at	NGLY1	N-glycanase 1	0.00471374	-1.17751	On IS Tolerant down vs On IS Non-Tolerant
228065_PM_at	BCL9L	B-cell CLL/lymphoma 9-like	0.00473648	-1.32791	On IS Tolerant down vs On IS Non-Tolerant
218081_PM_at	C20orf27	chromosome 20 open reading frame 27	0.00475848	1.35686	On IS Tolerant up vs On IS Non-Tolerant
207124_PM_s_at	GNB5	guanine nucleotide binding protein (G protein), beta 5	0.00476752	-1.73309	On IS Tolerant down vs On IS Non-Tolerant
210291_PM_s_at	ZNF174	zinc finger protein 174	0.0047694	1.21057	On IS Tolerant up vs On IS Non-Tolerant
226507_PM_at	PAK1	p21 protein (Cdc42/Rac)-activated kinase 1	0.00478424	1.28895	On IS Tolerant up vs On IS Non-Tolerant
AFFX-M27830_5_at	EST66	EST66	0.00478721	1.39178	On IS Tolerant up vs On IS Non-Tolerant
238420_PM_at	EST67	EST67	0.00481317	1.25407	On IS Tolerant up vs On IS Non-Tolerant
1563561_PM_at	EST68	EST68	0.0048135	-1.22644	On IS Tolerant down vs On IS Non-Tolerant

232586_PM_x_at	OR7E126P	olfactory receptor, family 7, subfamily E, member 126 pseudogene	0.00482729	-1.40478	On IS Tolerant down vs On IS Non-Tolerant
236479_PM_at	EST69	EST69	0.00484227	1.18692	On IS Tolerant up vs On IS Non-Tolerant
240669_PM_at	EST70	EST70	0.00485805	1.17443	On IS Tolerant up vs On IS Non-Tolerant
222364_PM_at	SLC44A1	solute carrier family 44, member 1	0.00487515	1.30372	On IS Tolerant up vs On IS Non-Tolerant
217388_PM_s_at	KYNU	kynureninase (L-kynurenine hydrolase)	0.00488716	1.45332	On IS Tolerant up vs On IS Non-Tolerant
1554202_PM_x_at	CABP4	calcium binding protein 4	0.0048902	-1.26397	On IS Tolerant down vs On IS Non-Tolerant
200653_PM_s_at	CALM1	calmodulin 1 (phosphorylase kinase, delta)	0.00491521	-1.16274	On IS Tolerant down vs On IS Non-Tolerant
238156_PM_at	EST71	EST71	0.0049249	-1.3093	On IS Tolerant down vs On IS Non-Tolerant
226744_PM_at	METT10D	methyltransferase 10 domain containing	0.00496597	-1.26753	On IS Tolerant down vs On IS Non-Tolerant
220237_PM_at	ATG3	ATG3 autophagy related 3 homolog (S. cerevisiae)	0.00496686	1.19935	On IS Tolerant up vs On IS Non-Tolerant
203233_PM_at	IL4R	interleukin 4 receptor	0.00497315	-1.4476	On IS Tolerant down vs On IS Non-Tolerant
233039_PM_at	EST72	EST72	0.00497467	1.25106	On IS Tolerant up vs On IS Non-Tolerant
207960_PM_at	EST73	EST73	0.00498587	1.19785	On IS Tolerant up vs On IS Non-Tolerant
222303_PM_at	EST74	EST74	0.00499596	1.80157	On IS Tolerant up vs On IS Non-Tolerant

Supplementary Table S5: 3526 Healthy Controls vs Tolerant Unique Genes (1st 2 Years off IS)

Probeset ID	Gene Symbol	Gene Title	p-value (Normal vs. Off IS Tolerant)	Fold-Change (Normal vs. Off IS Tolerant)	Fold-Change(Normal vs. Off IS Tolerant) (Description)
228727_PM_at	ANXA11	annexin A11	3.37E-08	1.92	Normal up vs Off IS Tolerant
243023_PM_at	---	---	3.84E-08	2.34	Normal up vs Off IS Tolerant
215211_PM_at	RRN3P1	RNA polymerase I transcription factor homolog (S. cerevisiae) pseudogene 1	6.55E-08	2.47	Normal up vs Off IS Tolerant
218492_PM_s_at	THAP7	THAP domain containing 7	1.29E-07	1.64	Normal up vs Off IS Tolerant
235005_PM_at	DIS3L	DIS3 mitotic control homolog (S. cerevisiae)-like	1.60E-07	1.91	Normal up vs Off IS Tolerant
207839_PM_s_at	TMEM8B	transmembrane protein 8B	2.22E-07	1.54	Normal up vs Off IS Tolerant
201677_PM_at	C3orf37	Chromosome 3 open reading frame 37	2.71E-07	1.99	Normal up vs Off IS Tolerant
201549_PM_x_at	KDM5B	lysine (K)-specific demethylase 5B	2.79E-07	1.72	Normal up vs Off IS Tolerant
204556_PM_s_at	DZIP1	DAZ interacting protein 1	3.59E-07	-1.59	Normal down vs Off IS Tolerant
203062_PM_s_at	MDC1	mediator of DNA-damage checkpoint 1	3.85E-07	1.69	Normal up vs Off IS Tolerant
203015_PM_s_at	SSX2IP	synovial sarcoma, X breakpoint 2 interacting protein	3.90E-07	1.84	Normal up vs Off IS Tolerant
209163_PM_at	CYB561	cytochrome b-561	5.78E-07	2.02	Normal up vs Off IS Tolerant
214663_PM_at	DSTYK	dual serine/threonine and tyrosine protein kinase	6.48E-07	2.51	Normal up vs Off IS Tolerant
239212_PM_at	LTV1	LTV1 homolog (S. cerevisiae)	1.00E-06	1.97	Normal up vs Off IS Tolerant
1552501_PM_a_at	GPBAR1	G protein-coupled bile acid receptor 1	1.18E-06	-1.94	Normal down vs Off IS Tolerant
213815_PM_x_at	C19orf29	chromosome 19 open reading frame 29	1.19E-06	1.69	Normal up vs Off IS Tolerant
242438_PM_at	ASXL1	additional sex combs like 1 (Drosophila)	1.21E-06	1.98	Normal up vs Off IS Tolerant
225526_PM_at	MKLN1	muskelin 1, intracellular mediator containing kelch motifs	1.29E-06	1.31	Normal up vs Off IS Tolerant
211009_PM_s_at	ZNF271	zinc finger protein 271	1.39E-06	2.34	Normal up vs Off IS Tolerant
204911_PM_s_at	TRIM3	tripartite motif-containing 3	1.60E-06	-1.36	Normal down vs Off IS Tolerant

212778_PM_at	PACS2	phosphofurin acidic cluster sorting protein 2	1.69E-06	2.35	Normal up vs Off IS Tolerant
221006_PM_s_at	SNX27	sorting nexin family member 27	1.96E-06	-1.67	Normal down vs Off IS Tolerant
215754_PM_at	SCARB2	scavenger receptor class B, member 2	2.08E-06	1.65	Normal up vs Off IS Tolerant
221562_PM_s_at	SIRT3	sirtuin 3	2.10E-06	1.99	Normal up vs Off IS Tolerant
231835_PM_at	C1orf93	chromosome 1 open reading frame 93	2.20E-06	2.22	Normal up vs Off IS Tolerant
205005_PM_s_at	NMT2	N-myristoyltransferase 2	2.76E-06	2.32	Normal up vs Off IS Tolerant
238951_PM_at	---	---	2.90E-06	2.41	Normal up vs Off IS Tolerant
226661_PM_at	CDCA2	cell division cycle associated 2	2.94E-06	-1.50	Normal down vs Off IS Tolerant
232633_PM_at	XRCC5	X-ray repair complementing defective repair in Chinese hamster cells 5 (double-strand-b	2.98E-06	2.05	Normal up vs Off IS Tolerant
222673_PM_x_at	FAM122B	family with sequence similarity 122B	2.99E-06	1.49	Normal up vs Off IS Tolerant
213434_PM_at	STX2	syntaxin 2	3.00E-06	1.90	Normal up vs Off IS Tolerant
242725_PM_at	---	---	3.37E-06	2.38	Normal up vs Off IS Tolerant
211721_PM_s_at	ZNF551	zinc finger protein 551	3.39E-06	2.07	Normal up vs Off IS Tolerant
221812_PM_at	FBXO42	F-box protein 42	3.58E-06	1.65	Normal up vs Off IS Tolerant
37586_PM_at	ZNF142	zinc finger protein 142	3.62E-06	1.46	Normal up vs Off IS Tolerant
230605_PM_at	---	---	3.72E-06	1.73	Normal up vs Off IS Tolerant
239425_PM_at	DCUN1D5	DCN1, defective in cullin neddylation 1, domain containing 5 (<i>S. cerevisiae</i>)	3.75E-06	1.91	Normal up vs Off IS Tolerant
238074_PM_at	WDR27	WD repeat domain 27	3.96E-06	-1.31	Normal down vs Off IS Tolerant
237486_PM_at	---	---	4.00E-06	-1.56	Normal down vs Off IS Tolerant
242113_PM_at	---	---	4.06E-06	1.84	Normal up vs Off IS Tolerant
214139_PM_at	ARID4B	AT rich interactive domain 4B (RBP1-like)	4.11E-06	-1.47	Normal down vs Off IS Tolerant
236405_PM_at	FBXO41	F-box protein 41	4.20E-06	-1.42	Normal down vs Off IS Tolerant
238057_PM_at	USP45	ubiquitin specific peptidase 45	4.30E-06	1.79	Normal up vs Off IS Tolerant
222482_PM_at	SSBP3	single stranded DNA binding protein 3	4.42E-06	1.88	Normal up vs Off IS Tolerant
236288_PM_at	RNF34	ring finger protein 34	4.43E-06	1.92	Normal up vs Off IS Tolerant

242808_PM_at	---	---	4.48E-06	1.73	Normal up vs Off IS Tolerant
221149_PM_at	GPR77	G protein-coupled receptor 77	4.55E-06	-1.46	Normal down vs Off IS Tolerant
230083_PM_at	USP53	ubiquitin specific peptidase 53	4.72E-06	2.62	Normal up vs Off IS Tolerant
240849_PM_at	---	---	4.81E-06	-1.48	Normal down vs Off IS Tolerant
229725_PM_at	ACSL6	acyl-CoA synthetase long-chain family member 6	4.81E-06	2.49	Normal up vs Off IS Tolerant
227502_PM_at	---	---	4.86E-06	2.13	Normal up vs Off IS Tolerant
1553696_PM_s_at	ZNF569	zinc finger protein 569	4.88E-06	1.43	Normal up vs Off IS Tolerant
235203_PM_at	---	---	4.96E-06	2.09	Normal up vs Off IS Tolerant
213657_PM_s_at	---	---	4.97E-06	1.88	Normal up vs Off IS Tolerant
210304_PM_at	PDE6B	phosphodiesterase 6B, cGMP-specific, rod, beta	5.06E-06	1.45	Normal up vs Off IS Tolerant
229990_PM_at	LOC641467	hypothetical LOC641467	5.44E-06	-1.41	Normal down vs Off IS Tolerant
205739_PM_x_at	ZNF107	zinc finger protein 107	5.47E-06	1.98	Normal up vs Off IS Tolerant
227083_PM_at	B3GALTL	beta 1,3-galactosyltransferase-like	5.48E-06	1.85	Normal up vs Off IS Tolerant
219442_PM_at	KIAA0664L3	KIAA0664-like 3	5.54E-06	2.30	Normal up vs Off IS Tolerant
227783_PM_at	CCDC57	coiled-coil domain containing 57	6.03E-06	1.37	Normal up vs Off IS Tolerant
242915_PM_at	ZNF682	zinc finger protein 682	6.14E-06	1.83	Normal up vs Off IS Tolerant
209494_PM_s_at	PATZ1	POZ (BTB) and AT hook containing zinc finger 1	6.14E-06	1.62	Normal up vs Off IS Tolerant
225657_PM_at	LOC152217	hypothetical LOC152217	6.16E-06	1.51	Normal up vs Off IS Tolerant
219351_PM_at	TRAPPC2	trafficking protein particle complex 2	6.24E-06	1.90	Normal up vs Off IS Tolerant
219019_PM_at	LRDD	leucine-rich repeats and death domain containing	6.29E-06	1.48	Normal up vs Off IS Tolerant
207494_PM_s_at	ZNF76	zinc finger protein 76 (expressed in testis)	6.35E-06	1.40	Normal up vs Off IS Tolerant
202500_PM_at	DNAJB2	Dnaj (Hsp40) homolog, subfamily B, member 2	6.36E-06	1.65	Normal up vs Off IS Tolerant
213757_PM_at	EIF5A	Eukaryotic translation initiation factor 5A	6.56E-06	-1.89	Normal down vs Off IS Tolerant
229501_PM_s_at	USP8	ubiquitin specific peptidase 8	6.76E-06	1.63	Normal up vs Off IS Tolerant

233735_PM_at	---	---	6.82E-06	-1.33	Normal down vs Off IS Tolerant
229664_PM_at	MAPK8	mitogen-activated protein kinase 8	7.16E-06	1.55	Normal up vs Off IS Tolerant
201279_PM_s_at	DAB2	disabled homolog 2, mitogen-responsive phosphoprotein (Drosophila)	7.20E-06	2.36	Normal up vs Off IS Tolerant
213789_PM_at	---	---	7.24E-06	-1.59	Normal down vs Off IS Tolerant
1557078_PM_at	SLFN5	schlafen family member 5	7.52E-06	2.59	Normal up vs Off IS Tolerant
91617_PM_at	DGCR8	DiGeorge syndrome critical region gene 8	7.87E-06	1.82	Normal up vs Off IS Tolerant
1563345_PM_at	---	---	8.62E-06	1.80	Normal up vs Off IS Tolerant
228604_PM_at	FAM76A	family with sequence similarity 76, member A	8.67E-06	2.11	Normal up vs Off IS Tolerant
227264_PM_at	---	---	9.02E-06	1.67	Normal up vs Off IS Tolerant
204663_PM_at	ME3	malic enzyme 3, NADP(+)-dependent, mitochondrial	9.42E-06	1.87	Normal up vs Off IS Tolerant
228500_PM_at	THAP8	THAP domain containing 8	9.56E-06	-1.68	Normal down vs Off IS Tolerant
208195_PM_at	TTN	titin	9.61E-06	1.98	Normal up vs Off IS Tolerant
235566_PM_at	TMF1	TATA element modulatory factor 1	1.02E-05	1.87	Normal up vs Off IS Tolerant
224163_PM_s_at	DMAP1	DNA methyltransferase 1 associated protein 1	1.02E-05	1.80	Normal up vs Off IS Tolerant
212867_PM_at	NCOA2	nuclear receptor coactivator 2	1.04E-05	1.42	Normal up vs Off IS Tolerant
235374_PM_at	MDH1	Malate dehydrogenase 1, NAD (soluble)	1.10E-05	1.68	Normal up vs Off IS Tolerant
218297_PM_at	FAM188A	family with sequence similarity 188, member A	1.11E-05	1.59	Normal up vs Off IS Tolerant
223849_PM_s_at	MOV10	Mov10, Moloney leukemia virus 10, homolog (mouse)	1.11E-05	1.99	Normal up vs Off IS Tolerant
1556059_PM_s_at	SPEN	spen homolog, transcriptional regulator (Drosophila)	1.15E-05	1.70	Normal up vs Off IS Tolerant
226848_PM_at	---	---	1.20E-05	1.99	Normal up vs Off IS Tolerant
1554597_PM_at	---	---	1.22E-05	1.66	Normal up vs Off IS Tolerant

205922_PM_at	VNN2	vanin 2	1.23E-05	-2.04	Normal down vs Off IS Tolerant
206003_PM_at	CEP135	centrosomal protein 135kDa	1.24E-05	1.50	Normal up vs Off IS Tolerant
241093_PM_at	---	---	1.29E-05	2.52	Normal up vs Off IS Tolerant
224184_PM_s_at	BOC	Boc homolog (mouse)	1.29E-05	-1.57	Normal down vs Off IS Tolerant
235106_PM_at	MAML2	mastermind-like 2 (Drosophila)	1.30E-05	1.59	Normal up vs Off IS Tolerant
225746_PM_at	RAB11FIP4	RAB11 family interacting protein 4 (class II)	1.31E-05	1.73	Normal up vs Off IS Tolerant
200626_PM_s_at	MATR3	matrin 3	1.34E-05	1.29	Normal up vs Off IS Tolerant
209938_PM_at	TADA2A	transcriptional adaptor 2A	1.35E-05	-1.40	Normal down vs Off IS Tolerant
242337_PM_at	---	---	1.37E-05	1.89	Normal up vs Off IS Tolerant
218402_PM_s_at	HPS4	Hermansky-Pudlak syndrome 4	1.38E-05	1.97	Normal up vs Off IS Tolerant
218098_PM_at	ARFGEF2	ADP-ribosylation factor guanine nucleotide-exchange factor 2 (brefeldin A inhibited)	1.42E-05	1.47	Normal up vs Off IS Tolerant
226470_PM_at	GGT7	gamma-glutamyltransferase 7	1.42E-05	1.81	Normal up vs Off IS Tolerant
216247_PM_at	---	---	1.42E-05	1.51	Normal up vs Off IS Tolerant
239196_PM_at	ANKRD22	ankyrin repeat domain 22	1.43E-05	-1.60	Normal down vs Off IS Tolerant
217539_PM_at	C18orf25	chromosome 18 open reading frame 25	1.44E-05	-1.54	Normal down vs Off IS Tolerant
244389_PM_at	TLK1	tousled-like kinase 1	1.44E-05	1.56	Normal up vs Off IS Tolerant
223541_PM_at	HAS3	hyaluronan synthase 3	1.51E-05	1.49	Normal up vs Off IS Tolerant
238026_PM_at	RPL35A	ribosomal protein L35a	1.53E-05	2.19	Normal up vs Off IS Tolerant
52731_PM_at	AMBRA1	autophagy/beclin-1 regulator 1	1.54E-05	1.50	Normal up vs Off IS Tolerant
227934_PM_at	KPNA5	karyopherin alpha 5 (importin alpha 6)	1.56E-05	1.70	Normal up vs Off IS Tolerant
233995_PM_at	---	---	1.58E-05	1.95	Normal up vs Off IS Tolerant
231008_PM_at	UNC5CL	unc-5 homolog C (C. elegans)-like	1.59E-05	1.45	Normal up vs Off IS Tolerant
224045_PM_x_at	C18orf2	chromosome 18 open reading frame 2	1.61E-05	-1.55	Normal down vs Off IS Tolerant
230616_PM_at	LAMB2P1	laminin, beta 2 pseudogene 1	1.61E-05	1.60	Normal up vs Off IS Tolerant
241954_PM_at	FDFT1	Farnesyl-diphosphate farnesyltransferase 1	1.62E-05	1.90	Normal up vs Off IS Tolerant

1554919_PM_s_at	C7orf63	chromosome 7 open reading frame 63	1.62E-05	-2.03	Normal down vs Off IS Tolerant
230692_PM_at	LOC157503	hypothetical protein LOC157503	1.63E-05	-1.80	Normal down vs Off IS Tolerant
212684_PM_at	ZNF3	zinc finger protein 3	1.66E-05	1.62	Normal up vs Off IS Tolerant
210268_PM_at	NFX1	nuclear transcription factor, X-box binding 1	1.67E-05	2.00	Normal up vs Off IS Tolerant
208322_PM_s_at	ST3GAL1	ST3 beta-galactoside alpha-2,3-sialyltransferase 1	1.69E-05	1.42	Normal up vs Off IS Tolerant
210105_PM_s_at	FYN	FYN oncogene related to SRC, FGR, YES	1.71E-05	1.35	Normal up vs Off IS Tolerant
222317_PM_at	PDE3B	phosphodiesterase 3B, cGMP-inhibited	1.72E-05	2.89	Normal up vs Off IS Tolerant
239195_PM_at	---	---	1.73E-05	-1.31	Normal down vs Off IS Tolerant
243617_PM_at	ZNF827	Zinc finger protein 827	1.78E-05	1.52	Normal up vs Off IS Tolerant
230612_PM_at	WDR73	WD repeat domain 73	1.82E-05	1.58	Normal up vs Off IS Tolerant
226392_PM_at	RASA2	RAS p21 protein activator 2	1.91E-05	1.46	Normal up vs Off IS Tolerant
1553979_PM_at	---	---	1.93E-05	1.42	Normal up vs Off IS Tolerant
222674_PM_at	C9orf114	chromosome 9 open reading frame 114	1.95E-05	1.64	Normal up vs Off IS Tolerant
225346_PM_at	MTERFD3	MTERF domain containing 3	1.99E-05	1.86	Normal up vs Off IS Tolerant
216026_PM_s_at	POLE	polymerase (DNA directed), epsilon	2.01E-05	1.67	Normal up vs Off IS Tolerant
224388_PM_s_at	COL25A1	collagen, type XXV, alpha 1	2.01E-05	-1.40	Normal down vs Off IS Tolerant
227900_PM_at	CBLB	Cas-Br-M (murine) ecotropic retroviral transforming sequence b	2.05E-05	2.23	Normal up vs Off IS Tolerant
214764_PM_at	RRP15	ribosomal RNA processing 15 homolog (S. cerevisiae)	2.07E-05	1.55	Normal up vs Off IS Tolerant
210045_PM_at	IDH2	isocitrate dehydrogenase 2 (NADP+), mitochondrial	2.11E-05	1.94	Normal up vs Off IS Tolerant
242298_PM_x_at	---	---	2.12E-05	1.80	Normal up vs Off IS Tolerant
206102_PM_at	GIN51	GIN5 complex subunit 1 (Psf1 homolog)	2.12E-05	-1.99	Normal down vs Off IS Tolerant
1559532_PM_at	C3orf71	chromosome 3 open reading frame 71	2.18E-05	1.68	Normal up vs Off IS Tolerant
219335_PM_at	ARMCX5	armadillo repeat containing, X-linked 5	2.18E-05	1.92	Normal up vs Off IS Tolerant

210422_PM_x_at	SLC11A1	solute carrier family 11 (proton-coupled divalent metal ion transporters), member 1	2.19E-05	-1.72	Normal down vs Off IS Tolerant
235231_PM_at	ZNF789	zinc finger protein 789	2.21E-05	2.01	Normal up vs Off IS Tolerant
235494_PM_at	LSAMP	limbic system-associated membrane protein	2.21E-05	-1.40	Normal down vs Off IS Tolerant
218480_PM_at	AGBL5	ATP/GTP binding protein-like 5	2.25E-05	1.53	Normal up vs Off IS Tolerant
211280_PM_s_at	NRF1	nuclear respiratory factor 1	2.28E-05	1.49	Normal up vs Off IS Tolerant
37860_PM_at	ZNF337	zinc finger protein 337	2.28E-05	1.56	Normal up vs Off IS Tolerant
216160_PM_at	---	---	2.30E-05	-1.34	Normal down vs Off IS Tolerant
229702_PM_at	CSNK1G3	casein kinase 1, gamma 3	2.41E-05	-1.41	Normal down vs Off IS Tolerant
225007_PM_at	G3BP1	GTPase activating protein (SH3 domain) binding protein 1	2.42E-05	1.39	Normal up vs Off IS Tolerant
233235_PM_x_at	---	---	2.45E-05	-1.61	Normal down vs Off IS Tolerant
225361_PM_x_at	FAM122B	family with sequence similarity 122B	2.48E-05	1.44	Normal up vs Off IS Tolerant
208472_PM_at	IKZF4	IKAROS family zinc finger 4 (Eos)	2.52E-05	-1.32	Normal down vs Off IS Tolerant
204834_PM_at	FGL2	fibrinogen-like 2	2.53E-05	-1.76	Normal down vs Off IS Tolerant
242643_PM_x_at	---	---	2.53E-05	-1.35	Normal down vs Off IS Tolerant
206708_PM_at	FOXN2	forkhead box N2	2.55E-05	-1.63	Normal down vs Off IS Tolerant
240455_PM_at	---	---	2.55E-05	1.46	Normal up vs Off IS Tolerant
217473_PM_x_at	SLC11A1	solute carrier family 11 (proton-coupled divalent metal ion transporters), member 1	2.58E-05	-1.77	Normal down vs Off IS Tolerant
219154_PM_at	TMEM120B	transmembrane protein 120B	2.64E-05	1.42	Normal up vs Off IS Tolerant
221940_PM_at	RPUSD2	RNA pseudouridylate synthase domain containing 2	2.66E-05	1.51	Normal up vs Off IS Tolerant
234998_PM_at	RAB11A	RAB11A, member RAS oncogene family	2.70E-05	2.16	Normal up vs Off IS Tolerant

1552412_PM_a_at	DEFB106A /// DEFB106B	defensin, beta 106A /// defensin, beta 106B	2.73E-05	-1.75	Normal down vs Off IS Tolerant
225757_PM_s_at	CLMN	calmin (calponin-like, transmembrane)	2.76E-05	-1.59	Normal down vs Off IS Tolerant
228948_PM_at	EPHA4	EPH receptor A4	2.78E-05	1.80	Normal up vs Off IS Tolerant
228627_PM_at	TLK2	tousled-like kinase 2	2.83E-05	1.55	Normal up vs Off IS Tolerant
243005_PM_at	---	---	2.84E-05	1.51	Normal up vs Off IS Tolerant
209600_PM_s_at	ACOX1	acyl-CoA oxidase 1, palmitoyl	2.85E-05	-2.34	Normal down vs Off IS Tolerant
204294_PM_at	AMT	aminomethyltransferase	2.87E-05	1.53	Normal up vs Off IS Tolerant
212947_PM_at	SLC9A8	solute carrier family 9 (sodium/hydrogen exchanger), member 8	2.89E-05	1.87	Normal up vs Off IS Tolerant
1553132_PM_a_at	TC2N	tandem C2 domains, nuclear	2.91E-05	2.09	Normal up vs Off IS Tolerant
208657_PM_s_at	9-Sep	septin 9	2.92E-05	1.32	Normal up vs Off IS Tolerant
223472_PM_at	WHSC1	Wolf-Hirschhorn syndrome candidate 1	2.92E-05	-1.42	Normal down vs Off IS Tolerant
202782_PM_s_at	INPP5K	inositol polyphosphate-5-phosphatase K	2.96E-05	1.47	Normal up vs Off IS Tolerant
208771_PM_s_at	LTA4H	leukotriene A4 hydrolase	2.96E-05	-1.67	Normal down vs Off IS Tolerant
239084_PM_at	SNAP29	synaptosomal-associated protein, 29kDa	2.97E-05	2.32	Normal up vs Off IS Tolerant
209024_PM_s_at	SYNCRIP	synaptotagmin binding, cytoplasmic RNA interacting protein	3.01E-05	-1.34	Normal down vs Off IS Tolerant
209406_PM_at	BAG2	BCL2-associated athanogene 2	3.02E-05	1.75	Normal up vs Off IS Tolerant
217649_PM_at	ZFAND5	zinc finger, AN1-type domain 5	3.06E-05	2.39	Normal up vs Off IS Tolerant
203199_PM_s_at	MTRR	5-methyltetrahydrofolate-homocysteine methyltransferase reductase	3.06E-05	2.23	Normal up vs Off IS Tolerant
223774_PM_at	SNHG12	small nucleolar RNA host gene 12 (non-protein coding)	3.08E-05	1.66	Normal up vs Off IS Tolerant
225905_PM_s_at	ST3GAL3	ST3 beta-galactoside alpha-2,3-sialyltransferase 3	3.10E-05	1.40	Normal up vs Off IS Tolerant
1557733_PM_a_at	---	---	3.12E-05	3.65	Normal up vs Off IS Tolerant

206095_PM_s_at	SRSF10	serine/arginine-rich splicing factor 10	3.12E-05	1.45	Normal up vs Off IS Tolerant
228395_PM_at	GLT8D1	Glycosyltransferase 8 domain containing 1	3.12E-05	1.86	Normal up vs Off IS Tolerant
222710_PM_at	GMPPB	GDP-mannose pyrophosphorylase B	3.13E-05	1.39	Normal up vs Off IS Tolerant
1555316_PM_a_at	KCNH7	potassium voltage-gated channel, subfamily H (eag-related), member 7	3.14E-05	-1.46	Normal down vs Off IS Tolerant
219759_PM_at	ERAP2	endoplasmic reticulum aminopeptidase 2	3.16E-05	5.45	Normal up vs Off IS Tolerant
207124_PM_s_at	GNB5	guanine nucleotide binding protein (G protein), beta 5	3.22E-05	2.45	Normal up vs Off IS Tolerant
223103_PM_at	STARD10	StAR-related lipid transfer (START) domain containing 10	3.22E-05	1.59	Normal up vs Off IS Tolerant
204791_PM_at	NR2C1	nuclear receptor subfamily 2, group C, member 1	3.25E-05	1.81	Normal up vs Off IS Tolerant
212276_PM_at	LPIN1	lipin 1	3.29E-05	1.54	Normal up vs Off IS Tolerant
204658_PM_at	TRA2A	transformer 2 alpha homolog (Drosophila)	3.32E-05	1.38	Normal up vs Off IS Tolerant
227261_PM_at	KLF12	Kruppel-like factor 12	3.33E-05	1.62	Normal up vs Off IS Tolerant
205819_PM_at	MARCO	macrophage receptor with collagenous structure	3.38E-05	-2.45	Normal down vs Off IS Tolerant
221221_PM_s_at	KLHL3	kelch-like 3 (Drosophila)	3.40E-05	1.91	Normal up vs Off IS Tolerant
208262_PM_x_at	MEFV	Mediterranean fever	3.45E-05	-2.69	Normal down vs Off IS Tolerant
228518_PM_at	IGHG1 /// IGHM	immunoglobulin heavy constant gamma 1 (G1m marker) /// immunoglobulin heavy constant mu	3.48E-05	2.61	Normal up vs Off IS Tolerant
44040_PM_at	FBXO41	F-box protein 41	3.50E-05	1.72	Normal up vs Off IS Tolerant
1563469_PM_at	---	---	3.52E-05	1.98	Normal up vs Off IS Tolerant
203782_PM_s_at	POLRMT	polymerase (RNA) mitochondrial (DNA directed)	3.57E-05	1.75	Normal up vs Off IS Tolerant
222119_PM_s_at	FBXO11	F-box protein 11	3.58E-05	1.41	Normal up vs Off IS Tolerant
214751_PM_at	ZNF468	zinc finger protein 468	3.59E-05	1.84	Normal up vs Off IS Tolerant
218421_PM_at	CERK	ceramide kinase	3.63E-05	1.30	Normal up vs Off IS Tolerant
211686_PM_s_at	MAK16	MAK16 homolog (S. cerevisiae)	3.65E-05	1.53	Normal up vs Off IS Tolerant

233019_PM_at	CNOT7	CCR4-NOT transcription complex, subunit 7	3.66E-05	2.15	Normal up vs Off IS Tolerant
212221_PM_x_at	AFMID /// IDS	arylformamidase /// iduronate 2-sulfatase	3.68E-05	1.32	Normal up vs Off IS Tolerant
210852_PM_s_at	AASS	aminoadipate-semialdehyde synthase	3.69E-05	1.34	Normal up vs Off IS Tolerant
213304_PM_at	FAM179B	family with sequence similarity 179, member B	3.72E-05	1.83	Normal up vs Off IS Tolerant
215606_PM_s_at	ERC1	ELKS/RAB6-interacting/CAST family member 1	3.80E-05	1.84	Normal up vs Off IS Tolerant
233434_PM_at	---	---	3.82E-05	-1.31	Normal down vs Off IS Tolerant
239315_PM_at	FAM115C	family with sequence similarity 115, member C	3.83E-05	-1.50	Normal down vs Off IS Tolerant
1558844_PM_at	LOC387790	hypothetical LOC387790	3.83E-05	-1.31	Normal down vs Off IS Tolerant
211050_PM_x_at	LOC100134822 /// LOC100288069	similar to hCG1739109 /// hypothetical LOC100288069	3.86E-05	-1.68	Normal down vs Off IS Tolerant
1563581_PM_at	LOC285456	hypothetical LOC285456	3.94E-05	-1.40	Normal down vs Off IS Tolerant
208798_PM_x_at	GOLGA8A	golgin A8 family, member A	3.96E-05	1.93	Normal up vs Off IS Tolerant
236964_PM_at	LOC100509093	hypothetical LOC100509093	3.97E-05	-1.35	Normal down vs Off IS Tolerant
223590_PM_at	ZNF700	zinc finger protein 700	3.98E-05	1.70	Normal up vs Off IS Tolerant
202455_PM_at	HDAC5	histone deacetylase 5	3.98E-05	1.65	Normal up vs Off IS Tolerant
218551_PM_at	MIIP	migration and invasion inhibitory protein	3.98E-05	-1.34	Normal down vs Off IS Tolerant
238257_PM_at	MLLT10	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocate	3.99E-05	1.44	Normal up vs Off IS Tolerant
217336_PM_at	RPS10 /// RPS10P7	ribosomal protein S10 /// ribosomal protein S10 pseudogene 7	4.03E-05	1.63	Normal up vs Off IS Tolerant
233827_PM_s_at	SUPT16H	suppressor of Ty 16 homolog (S. cerevisiae)	4.04E-05	-1.82	Normal down vs Off IS Tolerant
1560029_PM_a_at	C11orf57	chromosome 11 open reading frame 57	4.04E-05	1.70	Normal up vs Off IS Tolerant

203329_PM_at	PTPRM	protein tyrosine phosphatase, receptor type, M	4.12E-05	2.29	Normal up vs Off IS Tolerant
34221_PM_at	HMGXB3	HMG box domain containing 3	4.15E-05	1.29	Normal up vs Off IS Tolerant
231902_PM_at	ZNF827	zinc finger protein 827	4.19E-05	1.32	Normal up vs Off IS Tolerant
229340_PM_at	NKAPL	NFKB activating protein-like	4.20E-05	-1.48	Normal down vs Off IS Tolerant
1559520_PM_at	---	---	4.23E-05	-1.55	Normal down vs Off IS Tolerant
237236_PM_x_at	LOC731789	hypothetical LOC731789	4.26E-05	1.35	Normal up vs Off IS Tolerant
237771_PM_s_at	---	---	4.27E-05	-2.63	Normal down vs Off IS Tolerant
212465_PM_at	SETD3	SET domain containing 3	4.32E-05	-1.34	Normal down vs Off IS Tolerant
239678_PM_at	---	---	4.45E-05	2.07	Normal up vs Off IS Tolerant
218769_PM_s_at	ANKRA2	ankyrin repeat, family A (RFXANK-like), 2	4.49E-05	1.63	Normal up vs Off IS Tolerant
225901_PM_at	PTPMT1	protein tyrosine phosphatase, mitochondrial 1	4.53E-05	1.52	Normal up vs Off IS Tolerant
227201_PM_at	LOC643837	hypothetical LOC643837	4.57E-05	2.01	Normal up vs Off IS Tolerant
223512_PM_at	SAR1B	SAR1 homolog B (<i>S. cerevisiae</i>)	4.65E-05	-1.57	Normal down vs Off IS Tolerant
228557_PM_at	L3MBTL4	l(3)mbt-like 4 (<i>Drosophila</i>)	4.67E-05	-1.86	Normal down vs Off IS Tolerant
202877_PM_s_at	CD93	CD93 molecule	4.67E-05	-2.17	Normal down vs Off IS Tolerant
227625_PM_s_at	STUB1	STIP1 homology and U-box containing protein 1, E3 ubiquitin protein ligase	4.76E-05	1.30	Normal up vs Off IS Tolerant
209627_PM_s_at	OSBPL3	oxysterol binding protein-like 3	4.83E-05	1.78	Normal up vs Off IS Tolerant
209144_PM_s_at	CBFA2T2	core-binding factor, runt domain, alpha subunit 2; translocated to, 2	4.86E-05	1.40	Normal up vs Off IS Tolerant
232677_PM_at	---	---	4.89E-05	1.51	Normal up vs Off IS Tolerant
202436_PM_s_at	CYP1B1	cytochrome P450, family 1, subfamily B, polypeptide 1	4.90E-05	-2.94	Normal down vs Off IS Tolerant
215960_PM_at	SLC5A4	solute carrier family 5 (low affinity glucose cotransporter), member 4	4.90E-05	-1.32	Normal down vs Off IS Tolerant

241550_PM_at	DPPA5	developmental pluripotency associated 5	4.93E-05	-1.30	Normal down vs Off IS Tolerant
209934_PM_s_at	ATP2C1	ATPase, Ca++ transporting, type 2C, member 1	4.93E-05	1.55	Normal up vs Off IS Tolerant
225033_PM_at	ST3GAL1	ST3 beta-galactoside alpha-2,3-sialyltransferase 1	4.94E-05	1.73	Normal up vs Off IS Tolerant
218347_PM_at	LOC100510632 /// TYW1 /// TYW1B	tRNA wybutosine-synthesizing protein 1 homolog B-like /// tRNA-yW synthesizing protein	4.96E-05	1.29	Normal up vs Off IS Tolerant
220758_PM_s_at	ROBO4	roundabout homolog 4, magic roundabout (Drosophila)	5.04E-05	-1.33	Normal down vs Off IS Tolerant
226894_PM_at	SLC35A3	solute carrier family 35 (UDP-N-acetylglucosamine (UDP-GlcNAc) transporter), member A3	5.06E-05	1.61	Normal up vs Off IS Tolerant
228318_PM_s_at	CRIPAK	cysteine-rich PAK1 inhibitor	5.12E-05	1.67	Normal up vs Off IS Tolerant
210069_PM_at	CHKB-CPT1B /// CPT1B	choline kinase-like, carnitine palmitoyltransferase 1B (muscle) transcription unit ///	5.12E-05	2.15	Normal up vs Off IS Tolerant
238552_PM_at	---	---	5.16E-05	1.56	Normal up vs Off IS Tolerant
200917_PM_s_at	SRPR	signal recognition particle receptor (docking protein)	5.16E-05	-1.60	Normal down vs Off IS Tolerant
213353_PM_at	ABCA5	ATP-binding cassette, sub-family A (ABC1), member 5	5.22E-05	1.60	Normal up vs Off IS Tolerant
1564787_PM_at	LOC643923	hypothetical LOC643923	5.22E-05	-1.34	Normal down vs Off IS Tolerant
230201_PM_at	FXR1	fragile X mental retardation, autosomal homolog 1	5.27E-05	-1.30	Normal down vs Off IS Tolerant
218765_PM_at	SIDT2	SID1 transmembrane family, member 2	5.37E-05	-1.47	Normal down vs Off IS Tolerant
226399_PM_at	DNAJB14	DnaJ (Hsp40) homolog, subfamily B, member 14	5.40E-05	1.54	Normal up vs Off IS Tolerant
214001_PM_x_at	---	---	5.47E-05	-1.98	Normal down vs Off IS Tolerant
244397_PM_at	---	---	5.47E-05	1.64	Normal up vs Off IS Tolerant
227606_PM_s_at	STAMBPL1	STAM binding protein-like 1	5.53E-05	1.84	Normal up vs Off IS Tolerant

234886_PM_at	TRBV24-1	T cell receptor beta variable 24-1	5.56E-05	2.00	Normal up vs Off IS Tolerant
218955_PM_at	BRF2	BRF2, subunit of RNA polymerase III transcription initiation factor, BRF1-like	5.58E-05	1.44	Normal up vs Off IS Tolerant
217527_PM_s_at	NFATC2IP	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 interacting p	5.61E-05	1.48	Normal up vs Off IS Tolerant
205833_PM_s_at	PART1	prostate androgen-regulated transcript 1 (non-protein coding)	5.61E-05	-1.74	Normal down vs Off IS Tolerant
232154_PM_at	C19orf76	chromosome 19 open reading frame 76	5.65E-05	1.46	Normal up vs Off IS Tolerant
213979_PM_s_at	---	---	5.65E-05	-1.53	Normal down vs Off IS Tolerant
220739_PM_s_at	CNNM3	cyclin M3	5.74E-05	1.69	Normal up vs Off IS Tolerant
225181_PM_at	ARID1B	AT rich interactive domain 1B (SWI1-like)	5.78E-05	1.54	Normal up vs Off IS Tolerant
235104_PM_at	ERAP2	endoplasmic reticulum aminopeptidase 2	5.91E-05	4.21	Normal up vs Off IS Tolerant
202527_PM_s_at	SMAD4	SMAD family member 4	5.93E-05	1.68	Normal up vs Off IS Tolerant
212758_PM_s_at	ZEB1	zinc finger E-box binding homeobox 1	5.93E-05	1.83	Normal up vs Off IS Tolerant
241384_PM_x_at	GK5	glycerol kinase 5 (putative)	5.99E-05	1.89	Normal up vs Off IS Tolerant
226229_PM_s_at	SSU72	SSU72 RNA polymerase II CTD phosphatase homolog (<i>S. cerevisiae</i>)	5.99E-05	1.60	Normal up vs Off IS Tolerant
206780_PM_at	GAD2	glutamate decarboxylase 2 (pancreatic islets and brain, 65kDa)	5.99E-05	-1.34	Normal down vs Off IS Tolerant
1560773_PM_at	DLGAP1 /// LOC388458	discs, large (<i>Drosophila</i>) homolog-associated protein 1 /// hypothetical LOC388458	5.99E-05	-1.32	Normal down vs Off IS Tolerant
1562032_PM_at	---	---	6.01E-05	-1.32	Normal down vs Off IS Tolerant
227340_PM_s_at	RGMB	RGM domain family, member B	6.03E-05	1.44	Normal up vs Off IS Tolerant
221167_PM_s_at	CCDC70	coiled-coil domain containing 70	6.07E-05	-1.35	Normal down vs Off IS Tolerant
1554287_PM_at	TRIM4	tripartite motif-containing 4	6.15E-05	1.85	Normal up vs Off IS Tolerant
236407_PM_at	KCNE1	potassium voltage-gated channel, Isk-related family, member 1	6.16E-05	-1.35	Normal down vs Off IS Tolerant

222018_PM_at	NACA	nascent polypeptide-associated complex alpha subunit	6.16E-05	1.79	Normal up vs Off IS Tolerant
202178_PM_at	PRKCZ	protein kinase C, zeta	6.17E-05	1.68	Normal up vs Off IS Tolerant
231121_PM_at	HPS3	Hermansky-Pudlak syndrome 3	6.20E-05	2.10	Normal up vs Off IS Tolerant
244160_PM_at	---	---	6.24E-05	1.48	Normal up vs Off IS Tolerant
212853_PM_at	DCUN1D4	DCN1, defective in cullin neddylation 1, domain containing 4 (<i>S. cerevisiae</i>)	6.32E-05	1.46	Normal up vs Off IS Tolerant
229970_PM_at	---	---	6.34E-05	-1.34	Normal down vs Off IS Tolerant
225931_PM_s_at	RNF213	ring finger protein 213	6.37E-05	1.44	Normal up vs Off IS Tolerant
225610_PM_at	UHRF2	ubiquitin-like with PHD and ring finger domains 2	6.39E-05	1.32	Normal up vs Off IS Tolerant
206130_PM_s_at	ASGR2	asialoglycoprotein receptor 2	6.44E-05	-2.12	Normal down vs Off IS Tolerant
228570_PM_at	BTBD11	BTB (POZ) domain containing 11	6.46E-05	1.96	Normal up vs Off IS Tolerant
206839_PM_at	C22orf31	chromosome 22 open reading frame 31	6.49E-05	-1.27	Normal down vs Off IS Tolerant
233933_PM_s_at	OTUD5	OTU domain containing 5	6.53E-05	1.57	Normal up vs Off IS Tolerant
232663_PM_s_at	LOC390595	ubiquitin-associated protein 1-like	6.53E-05	1.38	Normal up vs Off IS Tolerant
211729_PM_x_at	BLVRA	biliverdin reductase A	6.55E-05	-1.52	Normal down vs Off IS Tolerant
218429_PM_s_at	C19orf66	chromosome 19 open reading frame 66	6.56E-05	1.32	Normal up vs Off IS Tolerant
205089_PM_at	ZNF7	zinc finger protein 7	6.56E-05	1.79	Normal up vs Off IS Tolerant
212225_PM_at	EIF1	eukaryotic translation initiation factor 1	6.58E-05	1.62	Normal up vs Off IS Tolerant
212156_PM_at	VPS39	vacuolar protein sorting 39 homolog (<i>S. cerevisiae</i>)	6.61E-05	1.41	Normal up vs Off IS Tolerant
223738_PM_s_at	PGM2	phosphoglucomutase 2	6.64E-05	-1.53	Normal down vs Off IS Tolerant
228626_PM_at	---	---	6.68E-05	1.50	Normal up vs Off IS Tolerant
218935_PM_at	EHD3	EH-domain containing 3	6.71E-05	1.84	Normal up vs Off IS Tolerant
230843_PM_at	---	---	6.76E-05	1.60	Normal up vs Off IS Tolerant
221890_PM_at	ZNF335	zinc finger protein 335	6.90E-05	1.56	Normal up vs Off IS Tolerant
236946_PM_at	---	---	6.91E-05	1.66	Normal up vs Off IS Tolerant

209164_PM_s_at	CYB561	cytochrome b-561	6.93E-05	1.90	Normal up vs Off IS Tolerant
243411_PM_at	---	---	6.94E-05	-1.42	Normal down vs Off IS Tolerant
232919_PM_at	LOC100289297	Hypothetical protein LOC100289297	6.96E-05	2.05	Normal up vs Off IS Tolerant
219806_PM_s_at	C11orf75	chromosome 11 open reading frame 75	7.08E-05	-1.81	Normal down vs Off IS Tolerant
212968_PM_at	RFNG	RFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase	7.11E-05	1.63	Normal up vs Off IS Tolerant
204588_PM_s_at	SLC7A7	solute carrier family 7 (cationic amino acid transporter, y+ system), member 7	7.12E-05	-1.51	Normal down vs Off IS Tolerant
222031_PM_at	LOC389906	hypothetical LOC389906	7.12E-05	1.57	Normal up vs Off IS Tolerant
242962_PM_at	---	---	7.14E-05	-1.29	Normal down vs Off IS Tolerant
241364_PM_at	TMEM57	transmembrane protein 57	7.19E-05	1.65	Normal up vs Off IS Tolerant
235520_PM_at	ZNF280C	zinc finger protein 280C	7.30E-05	1.52	Normal up vs Off IS Tolerant
205988_PM_at	CD84	CD84 molecule	7.30E-05	1.62	Normal up vs Off IS Tolerant
233489_PM_at	TMEM43	Transmembrane protein 43	7.39E-05	-1.35	Normal down vs Off IS Tolerant
1556042_PM_s_at	LOC338799	hypothetical LOC338799	7.44E-05	1.64	Normal up vs Off IS Tolerant
230998_PM_at	---	---	7.46E-05	1.83	Normal up vs Off IS Tolerant
217995_PM_at	SQRDL	sulfide quinone reductase-like (yeast)	7.47E-05	-1.50	Normal down vs Off IS Tolerant
210807_PM_s_at	SLC16A7	solute carrier family 16, member 7 (monocarboxylic acid transporter 2)	7.48E-05	-1.43	Normal down vs Off IS Tolerant
203774_PM_at	MTR	5-methyltetrahydrofolate-homocysteine methyltransferase	7.50E-05	1.48	Normal up vs Off IS Tolerant
215354_PM_s_at	PELP1	proline, glutamate and leucine rich protein 1	7.51E-05	1.44	Normal up vs Off IS Tolerant
236754_PM_at	PPP1R2	protein phosphatase 1, regulatory (inhibitor) subunit 2	7.51E-05	1.63	Normal up vs Off IS Tolerant
238315_PM_s_at	ZNF567	zinc finger protein 567	7.53E-05	1.75	Normal up vs Off IS Tolerant
228955_PM_at	---	---	7.61E-05	1.97	Normal up vs Off IS Tolerant

228131_PM_at	ERCC1	excision repair cross-complementing rodent repair deficiency, complementation group 1 (7.64E-05	1.72	Normal up vs Off IS Tolerant
210157_PM_at	C19orf2	chromosome 19 open reading frame 2	7.67E-05	1.71	Normal up vs Off IS Tolerant
1555131_PM_a_at	PER3	period homolog 3 (Drosophila)	7.75E-05	-1.69	Normal down vs Off IS Tolerant
209867_PM_s_at	LPHN3	latrophilin 3	7.78E-05	-1.63	Normal down vs Off IS Tolerant
241737_PM_x_at	---	---	7.82E-05	1.77	Normal up vs Off IS Tolerant
218362_PM_s_at	DIS3	DIS3 mitotic control homolog (S. cerevisiae)	7.84E-05	2.15	Normal up vs Off IS Tolerant
236906_PM_x_at	---	---	7.93E-05	-1.67	Normal down vs Off IS Tolerant
1566870_PM_at	---	---	7.99E-05	-1.37	Normal down vs Off IS Tolerant
235918_PM_x_at	CEP97	centrosomal protein 97kDa	8.06E-05	2.05	Normal up vs Off IS Tolerant
228675_PM_at	LOC100131733	hypothetical LOC100131733	8.13E-05	1.47	Normal up vs Off IS Tolerant
234790_PM_at	---	---	8.19E-05	-1.34	Normal down vs Off IS Tolerant
235319_PM_at	LOC100216546	hypothetical LOC100216546	8.21E-05	-1.34	Normal down vs Off IS Tolerant
202898_PM_at	SDC3	syndecan 3	8.31E-05	-1.36	Normal down vs Off IS Tolerant
214553_PM_s_at	ARPP19	cAMP-regulated phosphoprotein, 19kDa	8.32E-05	2.04	Normal up vs Off IS Tolerant
202617_PM_s_at	MECP2	methyl CpG binding protein 2 (Rett syndrome)	8.34E-05	1.57	Normal up vs Off IS Tolerant
202798_PM_at	SEC24B	SEC24 family, member B (S. cerevisiae)	8.35E-05	1.38	Normal up vs Off IS Tolerant
202265_PM_at	BMI1	BMI1 polycomb ring finger oncogene	8.48E-05	1.38	Normal up vs Off IS Tolerant
218712_PM_at	C1orf109	chromosome 1 open reading frame 109	8.49E-05	1.53	Normal up vs Off IS Tolerant
234418_PM_x_at	CD44	CD44 molecule (Indian blood group)	8.54E-05	-1.50	Normal down vs Off IS Tolerant
222770_PM_s_at	GUF1	GUF1 GTPase homolog (S. cerevisiae)	8.59E-05	1.78	Normal up vs Off IS Tolerant

227409_PM_at	PPP1R3E	protein phosphatase 1, regulatory (inhibitor) subunit 3E	8.65E-05	1.64	Normal up vs Off IS Tolerant
1560826_PM_at	---	---	8.65E-05	-1.53	Normal down vs Off IS Tolerant
227006_PM_at	PPP1R14A	protein phosphatase 1, regulatory (inhibitor) subunit 14A	8.68E-05	1.67	Normal up vs Off IS Tolerant
211543_PM_s_at	GRK6	G protein-coupled receptor kinase 6	8.68E-05	1.65	Normal up vs Off IS Tolerant
1556925_PM_at	SMC3	Structural maintenance of chromosomes 3	8.74E-05	1.59	Normal up vs Off IS Tolerant
238707_PM_at	---	---	8.78E-05	1.55	Normal up vs Off IS Tolerant
227445_PM_at	ZNF689	zinc finger protein 689	8.79E-05	1.67	Normal up vs Off IS Tolerant
45633_PM_at	GINS3	GINS complex subunit 3 (Psf3 homolog)	8.88E-05	-1.36	Normal down vs Off IS Tolerant
203412_PM_at	LZTR1	leucine-zipper-like transcription regulator 1	8.90E-05	1.38	Normal up vs Off IS Tolerant
206587_PM_at	CCT6B	chaperonin containing TCP1, subunit 6B (zeta 2)	8.90E-05	1.75	Normal up vs Off IS Tolerant
226312_PM_at	RICTOR	RPTOR independent companion of MTOR, complex 2	8.94E-05	1.44	Normal up vs Off IS Tolerant
241956_PM_at	---	---	8.96E-05	1.91	Normal up vs Off IS Tolerant
243133_PM_at	TSC22D1	TSC22 domain family, member 1	9.02E-05	-1.46	Normal down vs Off IS Tolerant
238479_PM_at	DCUN1D5	DCN1, defective in cullin neddylation 1, domain containing 5 (<i>S. cerevisiae</i>)	9.02E-05	1.55	Normal up vs Off IS Tolerant
1555579_PM_s_at	PTPRM	protein tyrosine phosphatase, receptor type, M	9.05E-05	2.34	Normal up vs Off IS Tolerant
221965_PM_at	MPHOSPH9	M-phase phosphoprotein 9	9.06E-05	1.78	Normal up vs Off IS Tolerant
227462_PM_at	ERAP2	endoplasmic reticulum aminopeptidase 2	9.14E-05	3.32	Normal up vs Off IS Tolerant
201556_PM_s_at	VAMP2	vesicle-associated membrane protein 2 (synaptobrevin 2)	9.15E-05	1.54	Normal up vs Off IS Tolerant
228549_PM_at	---	---	9.19E-05	1.94	Normal up vs Off IS Tolerant
233267_PM_at	SELENBP1	Selenium binding protein 1	9.26E-05	-1.38	Normal down vs Off IS Tolerant
212289_PM_at	ANKRD12	ankyrin repeat domain 12	9.33E-05	1.54	Normal up vs Off IS Tolerant

227729_PM_at	---	---	9.36E-05	1.61	Normal up vs Off IS Tolerant
214247_PM_s_at	DKK3	dickkopf homolog 3 (Xenopus laevis)	9.37E-05	1.35	Normal up vs Off IS Tolerant
210222_PM_s_at	RTN1	reticulon 1	9.48E-05	-1.76	Normal down vs Off IS Tolerant
226449_PM_at	CEP120	centrosomal protein 120kDa	9.54E-05	1.51	Normal up vs Off IS Tolerant
1553423_PM_a_at	SLFN13	schlafen family member 13	9.61E-05	1.97	Normal up vs Off IS Tolerant
218335_PM_x_at	TNIP2	TNFAIP3 interacting protein 2	9.66E-05	1.30	Normal up vs Off IS Tolerant
226135_PM_at	UHRF1BP1	UHRF1 binding protein 1	9.66E-05	1.82	Normal up vs Off IS Tolerant
216256_PM_at	GRM8	glutamate receptor, metabotropic 8	9.68E-05	-1.32	Normal down vs Off IS Tolerant
227444_PM_at	ARMCX4	armadillo repeat containing, X-linked 4	9.71E-05	1.77	Normal up vs Off IS Tolerant
219240_PM_s_at	C10orf88	chromosome 10 open reading frame 88	9.72E-05	1.75	Normal up vs Off IS Tolerant
221698_PM_s_at	CLEC7A	C-type lectin domain family 7, member A	9.74E-05	-1.49	Normal down vs Off IS Tolerant
225887_PM_at	C13orf23	chromosome 13 open reading frame 23	9.77E-05	1.53	Normal up vs Off IS Tolerant
1570354_PM_s_at	ZNF169	zinc finger protein 169	9.79E-05	1.39	Normal up vs Off IS Tolerant
214394_PM_x_at	EEF1D	eukaryotic translation elongation factor 1 delta (guanine nucleotide exchange protein)	9.80E-05	1.17	Normal up vs Off IS Tolerant
212107_PM_s_at	DHX9	DEAH (Asp-Glu-Ala-His) box polypeptide 9	9.80E-05	-1.55	Normal down vs Off IS Tolerant
221141_PM_x_at	EPN1	epsin 1	9.99E-05	-1.63	Normal down vs Off IS Tolerant
202832_PM_at	GCC2	GRIP and coiled-coil domain containing 2	0.00010	1.62	Normal up vs Off IS Tolerant
218735_PM_s_at	ZNF544	zinc finger protein 544	0.00010	1.59	Normal up vs Off IS Tolerant
214674_PM_at	USP19	ubiquitin specific peptidase 19	0.00010	1.55	Normal up vs Off IS Tolerant
1558626_PM_at	LOC100287696	Similar to ring finger protein 181	0.00010	1.38	Normal up vs Off IS Tolerant
224718_PM_at	YY1	YY1 transcription factor	0.00010	1.29	Normal up vs Off IS Tolerant
205120_PM_s_at	SGCB	sarcoglycan, beta (43kDa dystrophin-associated glycoprotein)	0.00010	1.51	Normal up vs Off IS Tolerant
204841_PM_s_at	EEA1	early endosome antigen 1	0.00010	-1.46	Normal down vs Off IS Tolerant

220116_PM_at	KCNN2	potassium intermediate/small conductance calcium-activated channel, subfamily N, member	0.00010	-1.87	Normal down vs Off IS Tolerant
210113_PM_s_at	NLRP1	NLR family, pyrin domain containing 1	0.00010	1.36	Normal up vs Off IS Tolerant
211908_PM_x_at	IGKV3-20	Immunoglobulin kappa variable 3-20	0.00010	-1.53	Normal down vs Off IS Tolerant
216350_PM_s_at	ZNF10	zinc finger protein 10	0.00010	2.10	Normal up vs Off IS Tolerant
216555_PM_at	C22orf30	chromosome 22 open reading frame 30	0.00011	-1.51	Normal down vs Off IS Tolerant
228567_PM_at	---	---	0.00011	1.55	Normal up vs Off IS Tolerant
230322_PM_at	NFAM1	NFAT activating protein with ITAM motif 1	0.00011	-1.52	Normal down vs Off IS Tolerant
227810_PM_at	ZNF558	zinc finger protein 558	0.00011	1.37	Normal up vs Off IS Tolerant
1566032_PM_at	---	---	0.00011	-1.66	Normal down vs Off IS Tolerant
238975_PM_at	MMAB	methylmalonic aciduria (cobalamin deficiency) cblB type	0.00011	1.33	Normal up vs Off IS Tolerant
221507_PM_at	TNPO2	transportin 2	0.00011	1.65	Normal up vs Off IS Tolerant
218311_PM_at	MAP4K3	mitogen-activated protein kinase kinase kinase 3	0.00011	2.02	Normal up vs Off IS Tolerant
226825_PM_s_at	TMEM165	transmembrane protein 165	0.00011	-1.67	Normal down vs Off IS Tolerant
204788_PM_s_at	PPOX	protoporphyrinogen oxidase	0.00011	1.55	Normal up vs Off IS Tolerant
237400_PM_at	ATP5S	ATP synthase, H+ transporting, mitochondrial F0 complex, subunit s (factor B)	0.00011	2.02	Normal up vs Off IS Tolerant
203485_PM_at	RTN1	reticulon 1	0.00011	-1.87	Normal down vs Off IS Tolerant
242035_PM_at	---	---	0.00011	1.88	Normal up vs Off IS Tolerant
231815_PM_at	PHF12	PHD finger protein 12	0.00011	1.49	Normal up vs Off IS Tolerant
232249_PM_at	FMNL3	formin-like 3	0.00011	-1.36	Normal down vs Off IS Tolerant
241124_PM_at	---	---	0.00011	-1.41	Normal down vs Off IS Tolerant

214219_PM_x_at	MAP4K1	mitogen-activated protein kinase kinase kinase kinase 1	0.00011	1.60	Normal up vs Off IS Tolerant
226102_PM_at	---	---	0.00011	1.56	Normal up vs Off IS Tolerant
235507_PM_at	PCMTD1	protein-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 1	0.00011	-1.46	Normal down vs Off IS Tolerant
224784_PM_at	MLLT6	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocate	0.00011	1.55	Normal up vs Off IS Tolerant
239029_PM_at	TMCC1	transmembrane and coiled-coil domain family 1	0.00011	-1.34	Normal down vs Off IS Tolerant
242258_PM_at	---	---	0.00012	2.03	Normal up vs Off IS Tolerant
224704_PM_at	TNRC6A	trinucleotide repeat containing 6A	0.00012	1.43	Normal up vs Off IS Tolerant
209327_PM_s_at	NOP16	NOP16 nucleolar protein homolog (yeast)	0.00012	-1.33	Normal down vs Off IS Tolerant
1568915_PM_at	---	---	0.00012	1.40	Normal up vs Off IS Tolerant
221666_PM_s_at	PYCARD	PYD and CARD domain containing	0.00012	-1.55	Normal down vs Off IS Tolerant
230640_PM_at	---	---	0.00012	1.79	Normal up vs Off IS Tolerant
233197_PM_at	KLHL9	kelch-like 9 (Drosophila)	0.00012	1.50	Normal up vs Off IS Tolerant
221992_PM_at	LOC100507607 /// LOC100507666 /// LOC728734 /// LOC728741 /// NPIPL2 /// NPIPL3	nuclear pore complex-interacting protein-like 3-like /// nuclear pore complex-interacti	0.00012	2.62	Normal up vs Off IS Tolerant
210373_PM_at	NPRL2	nitrogen permease regulator-like 2 (S. cerevisiae)	0.00012	1.53	Normal up vs Off IS Tolerant
212921_PM_at	SMYD2	SET and MYND domain containing 2	0.00012	1.66	Normal up vs Off IS Tolerant
208278_PM_s_at	---	---	0.00012	-1.42	Normal down vs Off IS Tolerant
1554923_PM_at	ANKS6	ankyrin repeat and sterile alpha motif domain containing 6	0.00012	1.31	Normal up vs Off IS Tolerant
244487_PM_at	NCK1	NCK adaptor protein 1	0.00012	2.12	Normal up vs Off IS Tolerant
222524_PM_s_at	ASB6	ankyrin repeat and SOCS box-containing 6	0.00012	1.60	Normal up vs Off IS Tolerant

240513_PM_at	EIF3M	Eukaryotic translation initiation factor 3, subunit M	0.00012	1.76	Normal up vs Off IS Tolerant
219505_PM_at	CECR1	cat eye syndrome chromosome region, candidate 1	0.00012	-1.36	Normal down vs Off IS Tolerant
239777_PM_at	C14orf182	chromosome 14 open reading frame 182	0.00012	1.62	Normal up vs Off IS Tolerant
1569129_PM_s_at	C3orf38	chromosome 3 open reading frame 38	0.00012	2.15	Normal up vs Off IS Tolerant
227213_PM_at	ADAT2	adenosine deaminase, tRNA-specific 2, TAD2 homolog (<i>S. cerevisiae</i>)	0.00012	1.65	Normal up vs Off IS Tolerant
200912_PM_s_at	EIF4A2	eukaryotic translation initiation factor 4A2	0.00012	1.19	Normal up vs Off IS Tolerant
217520_PM_x_at	LOC283683	hypothetical LOC283683	0.00012	1.55	Normal up vs Off IS Tolerant
242772_PM_x_at	---	---	0.00012	2.04	Normal up vs Off IS Tolerant
202414_PM_at	ERCC5	excision repair cross-complementing rodent repair deficiency, complementation group 5	0.00013	1.36	Normal up vs Off IS Tolerant
215135_PM_at	DNPEP	aspartyl aminopeptidase	0.00013	1.59	Normal up vs Off IS Tolerant
223491_PM_at	COMMD2	COMM domain containing 2	0.00013	1.65	Normal up vs Off IS Tolerant
221528_PM_s_at	ELMO2	engulfment and cell motility 2	0.00013	1.59	Normal up vs Off IS Tolerant
203264_PM_s_at	ARHGEF9	Cdc42 guanine nucleotide exchange factor (GEF) 9	0.00013	1.53	Normal up vs Off IS Tolerant
222011_PM_s_at	TCP1	t-complex 1	0.00013	1.76	Normal up vs Off IS Tolerant
224180_PM_x_at	C2orf86	chromosome 2 open reading frame 86	0.00013	1.61	Normal up vs Off IS Tolerant
208282_PM_x_at	DAZ1 /// DAZ2 /// DAZ3 /// DAZ4	deleted in azoospermia 1 /// deleted in azoospermia 2 /// deleted in azoospermia 3 ///	0.00013	-1.39	Normal down vs Off IS Tolerant
222034_PM_at	GNB2L1	guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1	0.00013	1.77	Normal up vs Off IS Tolerant
221905_PM_at	CYLD	cylindromatosis (turban tumor syndrome)	0.00013	1.45	Normal up vs Off IS Tolerant
1554456_PM_a_at	LINS	lines homolog (<i>Drosophila</i>)	0.00013	2.19	Normal up vs Off IS Tolerant
229770_PM_at	GLT1D1	glycosyltransferase 1 domain containing 1	0.00013	-1.83	Normal down vs Off IS Tolerant
240642_PM_at	ZMYM2	zinc finger, MYM-type 2	0.00013	-1.47	Normal down vs Off IS Tolerant

205663_PM_at	PCBP3	poly(rC) binding protein 3	0.00013	-1.31	Normal down vs Off IS Tolerant
236022_PM_at	MYO19	myosin XIX	0.00013	1.86	Normal up vs Off IS Tolerant
218826_PM_at	SLC35F2	solute carrier family 35, member F2	0.00013	1.85	Normal up vs Off IS Tolerant
223458_PM_at	SEZ6L2	seizure related 6 homolog (mouse)-like 2	0.00013	-1.37	Normal down vs Off IS Tolerant
214339_PM_s_at	MAP4K1	mitogen-activated protein kinase kinase kinase kinase 1	0.00013	1.48	Normal up vs Off IS Tolerant
227381_PM_at	CERCAM	Cerebral endothelial cell adhesion molecule	0.00013	-1.30	Normal down vs Off IS Tolerant
235611_PM_at	SREK1	splicing regulatory glutamine/lysine-rich protein 1	0.00013	1.98	Normal up vs Off IS Tolerant
202435_PM_s_at	CYP1B1	cytochrome P450, family 1, subfamily B, polypeptide 1	0.00014	-2.66	Normal down vs Off IS Tolerant
200727_PM_s_at	ACTR2	ARP2 actin-related protein 2 homolog (yeast)	0.00014	-1.68	Normal down vs Off IS Tolerant
156525_PM_a_at	TCP11L2	t-complex 11 (mouse)-like 2	0.00014	2.18	Normal up vs Off IS Tolerant
203623_PM_at	PLXNA3	plexin A3	0.00014	1.26	Normal up vs Off IS Tolerant
240222_PM_at	---	---	0.00014	1.62	Normal up vs Off IS Tolerant
226307_PM_at	CRTC2	CREB regulated transcription coactivator 2	0.00014	1.45	Normal up vs Off IS Tolerant
233246_PM_at	---	---	0.00014	1.56	Normal up vs Off IS Tolerant
237453_PM_at	ZNF529	zinc finger protein 529	0.00014	1.25	Normal up vs Off IS Tolerant
222788_PM_s_at	RSBN1	round spermatid basic protein 1	0.00014	1.33	Normal up vs Off IS Tolerant
244696_PM_at	---	---	0.00014	-2.17	Normal down vs Off IS Tolerant
230360_PM_at	GLDN	gliomedin	0.00014	-1.34	Normal down vs Off IS Tolerant
220953_PM_s_at	MTMR12	myotubularin related protein 12	0.00014	1.90	Normal up vs Off IS Tolerant
218482_PM_at	ENY2	enhancer of yellow 2 homolog (Drosophila)	0.00014	-1.31	Normal down vs Off IS Tolerant
201550_PM_x_at	ACTG1	actin, gamma 1	0.00014	-1.14	Normal down vs Off IS Tolerant
204743_PM_at	TAGLN3	transgelin 3	0.00014	-1.38	Normal down vs Off IS Tolerant

1564334_PM_at	---	---	0.00014	1.32	Normal up vs Off IS Tolerant
218570_PM_at	KBTBD4 /// PTPMT1	kelch repeat and BTB (POZ) domain containing 4 /// protein tyrosine phosphatase, mitocho	0.00014	1.74	Normal up vs Off IS Tolerant
220613_PM_s_at	SYTL2	synaptotagmin-like 2	0.00014	1.74	Normal up vs Off IS Tolerant
215855_PM_s_at	TMF1	TATA element modulatory factor 1	0.00014	1.78	Normal up vs Off IS Tolerant
219840_PM_s_at	TCL6	T-cell leukemia/lymphoma 6 (non- protein coding)	0.00014	-1.49	Normal down vs Off IS Tolerant
1557532_PM_at	NDUFA7	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 7, 14.5kDa	0.00015	1.36	Normal up vs Off IS Tolerant
1556452_PM_a_at	LOC283761	hypothetical LOC283761	0.00015	-1.28	Normal down vs Off IS Tolerant
224947_PM_at	RNF26	ring finger protein 26	0.00015	1.44	Normal up vs Off IS Tolerant
220839_PM_at	METTL5	methyltransferase like 5	0.00015	1.58	Normal up vs Off IS Tolerant
223066_PM_at	SNAPIN	SNAP-associated protein	0.00015	-1.65	Normal down vs Off IS Tolerant
204155_PM_s_at	SIK3	SIK family kinase 3	0.00015	1.51	Normal up vs Off IS Tolerant
213645_PM_at	ENOSF1	enolase superfamily member 1	0.00015	2.47	Normal up vs Off IS Tolerant
219098_PM_at	MYBBP1A	MYB binding protein (P160) 1a	0.00015	1.44	Normal up vs Off IS Tolerant
227775_PM_at	CELF6	CUGBP, Elav-like family member 6	0.00015	1.49	Normal up vs Off IS Tolerant
221499_PM_s_at	STX16	syntaxin 16	0.00015	1.42	Normal up vs Off IS Tolerant
65770_PM_at	RHOT2	ras homolog gene family, member T2	0.00015	1.32	Normal up vs Off IS Tolerant
1560028_PM_at	C11orf57	chromosome 11 open reading frame 57	0.00015	1.73	Normal up vs Off IS Tolerant
244347_PM_at	---	---	0.00015	1.89	Normal up vs Off IS Tolerant
238012_PM_at	DPP7	Dipeptidyl-peptidase 7	0.00015	1.75	Normal up vs Off IS Tolerant
210084_PM_x_at	TPSAB1	tryptase alpha/beta 1	0.00015	-1.29	Normal down vs Off IS Tolerant
233478_PM_at	---	---	0.00015	-1.39	Normal down vs Off IS Tolerant
226344_PM_at	ZMAT1	zinc finger, matrin-type 1	0.00015	1.77	Normal up vs Off IS Tolerant
206837_PM_at	ALX1	ALX homeobox 1	0.00015	-1.69	Normal down vs Off IS Tolerant
218164_PM_at	SPATA20	spermatogenesis associated 20	0.00015	1.89	Normal up vs Off IS Tolerant

230395_PM_at	---	---	0.00015	-1.50	Normal down vs Off IS Tolerant
1563498_PM_s_at	SLC25A45	solute carrier family 25, member 45	0.00015	1.80	Normal up vs Off IS Tolerant
213400_PM_s_at	TBL1X	transducin (beta)-like 1X-linked	0.00016	-1.21	Normal down vs Off IS Tolerant
232125_PM_at	---	---	0.00016	1.63	Normal up vs Off IS Tolerant
210129_PM_s_at	TTLL3	tubulin tyrosine ligase-like family, member 3	0.00016	1.48	Normal up vs Off IS Tolerant
214409_PM_at	RFPL3S	RFPL3 antisense RNA (non-protein coding)	0.00016	1.62	Normal up vs Off IS Tolerant
229575_PM_at	---	---	0.00016	1.64	Normal up vs Off IS Tolerant
205854_PM_at	TULP3	tubby like protein 3	0.00016	1.50	Normal up vs Off IS Tolerant
234760_PM_at	---	---	0.00016	-1.31	Normal down vs Off IS Tolerant
200655_PM_s_at	CALM1	calmodulin 1 (phosphorylase kinase, delta)	0.00016	1.23	Normal up vs Off IS Tolerant
1557514_PM_a_at	---	---	0.00016	-1.47	Normal down vs Off IS Tolerant
228259_PM_s_at	---	---	0.00016	1.76	Normal up vs Off IS Tolerant
1554489_PM_a_at	CEP70	centrosomal protein 70kDa	0.00016	1.42	Normal up vs Off IS Tolerant
204508_PM_s_at	CA12	carbonic anhydrase XII	0.00016	-1.35	Normal down vs Off IS Tolerant
213278_PM_at	MTMR9	myotubularin related protein 9	0.00016	1.45	Normal up vs Off IS Tolerant
235920_PM_at	---	---	0.00016	1.73	Normal up vs Off IS Tolerant
239553_PM_at	LOC729420	hypothetical LOC729420	0.00016	-1.26	Normal down vs Off IS Tolerant
221581_PM_s_at	LAT2	linker for activation of T cells family, member 2	0.00016	-1.59	Normal down vs Off IS Tolerant
206274_PM_s_at	CROCC	ciliary rootlet coiled-coil, rootletin	0.00016	1.33	Normal up vs Off IS Tolerant
210070_PM_s_at	CHKB-CPT1B /// CPT1B	choline kinase-like, carnitine palmitoyltransferase 1B (muscle) transcription unit ///	0.00016	2.19	Normal up vs Off IS Tolerant
1560034_PM_a_at	---	---	0.00016	-1.68	Normal down vs Off IS Tolerant

226591_PM_at	SNRPN	small nuclear ribonucleoprotein polypeptide N	0.00016	2.35	Normal up vs Off IS Tolerant
206857_PM_s_at	FKBP1B	FK506 binding protein 1B, 12.6 kDa	0.00017	2.24	Normal up vs Off IS Tolerant
239437_PM_at	---	---	0.00017	1.55	Normal up vs Off IS Tolerant
218673_PM_s_at	ATG7	ATG7 autophagy related 7 homolog (S. cerevisiae)	0.00017	-1.63	Normal down vs Off IS Tolerant
234976_PM_x_at	MTHFD2	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2, methenyltetrahydrofolate c	0.00017	-1.36	Normal down vs Off IS Tolerant
243824_PM_at	LOC100505956	hypothetical LOC100505956	0.00017	-2.30	Normal down vs Off IS Tolerant
240170_PM_at	---	---	0.00017	1.64	Normal up vs Off IS Tolerant
228583_PM_at	LIN52	lin-52 homolog (C. elegans)	0.00017	1.91	Normal up vs Off IS Tolerant
211386_PM_at	MGC12488	hypothetical protein MGC12488	0.00017	2.13	Normal up vs Off IS Tolerant
1563696_PM_at	HSD17B4	Hydroxysteroid (17-beta) dehydrogenase 4	0.00017	-1.87	Normal down vs Off IS Tolerant
1558154_PM_at	---	---	0.00017	2.10	Normal up vs Off IS Tolerant
238929_PM_at	SRSF8	serine/arginine-rich splicing factor 8	0.00017	1.85	Normal up vs Off IS Tolerant
1553099_PM_at	TIGD1	tigger transposable element derived 1	0.00017	2.02	Normal up vs Off IS Tolerant
1570424_PM_at	---	---	0.00017	-1.30	Normal down vs Off IS Tolerant
238070_PM_at	---	---	0.00017	1.64	Normal up vs Off IS Tolerant
204328_PM_at	TMC6	transmembrane channel-like 6	0.00017	1.37	Normal up vs Off IS Tolerant
237750_PM_at	XPNPEP3	X-prolyl aminopeptidase (aminopeptidase P) 3, putative	0.00017	1.53	Normal up vs Off IS Tolerant
211660_PM_at	POU2F2	POU class 2 homeobox 2	0.00017	-1.59	Normal down vs Off IS Tolerant
213587_PM_s_at	ATP6V0E2	ATPase, H+ transporting V0 subunit e2	0.00017	1.85	Normal up vs Off IS Tolerant
202524_PM_s_at	SPOCK2	sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 2	0.00017	1.83	Normal up vs Off IS Tolerant
218473_PM_s_at	GLT25D1	glycosyltransferase 25 domain containing 1	0.00017	-1.33	Normal down vs Off IS Tolerant
1553701_PM_a_at	DUSP18	dual specificity phosphatase 18	0.00018	-1.46	Normal down vs Off IS Tolerant
238583_PM_at	MSRB3	methionine sulfoxide reductase B3	0.00018	1.32	Normal up vs Off IS Tolerant

209654_PM_at	KIAA0947	KIAA0947	0.00018	1.38	Normal up vs Off IS Tolerant
1569110_PM_x_at	LOC728613	programmed cell death 6 pseudogene	0.00018	2.90	Normal up vs Off IS Tolerant
211983_PM_x_at	ACTG1	actin, gamma 1	0.00018	-1.12	Normal down vs Off IS Tolerant
203938_PM_s_at	TAF1C	TATA box binding protein (TBP)- associated factor, RNA polymerase I, C, 110kDa	0.00018	1.34	Normal up vs Off IS Tolerant
221318_PM_at	NEUROD4	neurogenic differentiation 4	0.00018	-1.30	Normal down vs Off IS Tolerant
232433_PM_at	KIAA1683	KIAA1683	0.00018	-1.44	Normal down vs Off IS Tolerant
226508_PM_at	PHC3	polyhomeotic homolog 3 (Drosophila)	0.00018	1.41	Normal up vs Off IS Tolerant
203371_PM_s_at	NDUFB3	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 3, 12kDa	0.00018	-1.44	Normal down vs Off IS Tolerant
228174_PM_at	SCAI	suppressor of cancer cell invasion	0.00018	1.83	Normal up vs Off IS Tolerant
229411_PM_at	PNCK	pregnancy up-regulated non-ubiquitously expressed CaM kinase	0.00018	-1.27	Normal down vs Off IS Tolerant
237048_PM_at	---	---	0.00018	1.39	Normal up vs Off IS Tolerant
55081_PM_at	MICALL1	MICAL-like 1	0.00018	1.75	Normal up vs Off IS Tolerant
226855_PM_at	---	---	0.00019	1.35	Normal up vs Off IS Tolerant
219125_PM_s_at	RAG1AP1	recombination activating gene 1 activating protein 1	0.00019	1.44	Normal up vs Off IS Tolerant
1554007_PM_at	---	---	0.00019	2.00	Normal up vs Off IS Tolerant
212957_PM_s_at	LOC92249	hypothetical LOC92249	0.00019	1.51	Normal up vs Off IS Tolerant
215616_PM_s_at	KDM4B	lysine (K)-specific demethylase 4B	0.00019	-1.41	Normal down vs Off IS Tolerant
227797_PM_x_at	LYRM2	LYR motif containing 2	0.00019	-1.64	Normal down vs Off IS Tolerant
228454_PM_at	LCOR	ligand dependent nuclear receptor corepressor	0.00019	1.42	Normal up vs Off IS Tolerant
228915_PM_at	DACH1	dachshund homolog 1 (Drosophila)	0.00019	-1.64	Normal down vs Off IS Tolerant
200900_PM_s_at	M6PR	mannose-6-phosphate receptor (cation dependent)	0.00019	-1.45	Normal down vs Off IS Tolerant

230758_PM_at	GEMIN8	gem (nuclear organelle) associated protein 8	0.00019	1.49	Normal up vs Off IS Tolerant
228320_PM_x_at	CCDC64	coiled-coil domain containing 64	0.00019	1.80	Normal up vs Off IS Tolerant
213642_PM_at	---	---	0.00019	-1.73	Normal down vs Off IS Tolerant
207564_PM_x_at	OGT	O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine:polypeptide-	0.00020	1.42	Normal up vs Off IS Tolerant
201085_PM_s_at	SON	SON DNA binding protein	0.00020	-1.25	Normal down vs Off IS Tolerant
206621_PM_s_at	EIF4H	eukaryotic translation initiation factor 4H	0.00020	1.29	Normal up vs Off IS Tolerant
202365_PM_at	UNC119B	unc-119 homolog B (C. elegans)	0.00020	1.69	Normal up vs Off IS Tolerant
229420_PM_at	---	---	0.00020	-1.94	Normal down vs Off IS Tolerant
225616_PM_at	SPRYD4	SPRY domain containing 4	0.00020	-1.36	Normal down vs Off IS Tolerant
1559324_PM_at	CCDC144C	Coiled-coil domain containing 144C	0.00020	-1.52	Normal down vs Off IS Tolerant
242640_PM_at	C19orf55	chromosome 19 open reading frame 55	0.00020	1.26	Normal up vs Off IS Tolerant
37462_PM_i_at	SF3A2	splicing factor 3a, subunit 2, 66kDa	0.00020	1.67	Normal up vs Off IS Tolerant
1554019_PM_s_at	CEP57L1	centrosomal protein 57kDa-like 1	0.00020	-1.61	Normal down vs Off IS Tolerant
225421_PM_at	PM20D2	peptidase M20 domain containing 2	0.00020	1.93	Normal up vs Off IS Tolerant
229759_PM_s_at	VEPH1	ventricular zone expressed PH domain homolog 1 (zebrafish)	0.00021	1.39	Normal up vs Off IS Tolerant
210316_PM_at	FLT4	fms-related tyrosine kinase 4	0.00021	1.25	Normal up vs Off IS Tolerant
244352_PM_at	CD84	CD84 molecule	0.00021	1.64	Normal up vs Off IS Tolerant
1566271_PM_x_at	RALGAPA1	Ral GTPase activating protein, alpha subunit 1 (catalytic)	0.00021	-1.90	Normal down vs Off IS Tolerant
215364_PM_s_at	KIAA0467	KIAA0467	0.00021	1.43	Normal up vs Off IS Tolerant
241962_PM_at	---	---	0.00021	1.38	Normal up vs Off IS Tolerant
201704_PM_at	ENTPD6	ectonucleoside triphosphate diphosphohydrolase 6 (putative)	0.00021	1.35	Normal up vs Off IS Tolerant

201230_PM_s_at	ARIH2	ariadne homolog 2 (Drosophila)	0.00021	1.29	Normal up vs Off IS Tolerant
203123_PM_s_at	SLC11A2	solute carrier family 11 (proton-coupled divalent metal ion transporters), member 2	0.00022	1.70	Normal up vs Off IS Tolerant
235900_PM_at	SPNS3	spinster homolog 3 (Drosophila)	0.00022	1.42	Normal up vs Off IS Tolerant
238692_PM_at	BTBD11	BTB (POZ) domain containing 11	0.00022	1.64	Normal up vs Off IS Tolerant
217696_PM_at	FUT7	fucosyltransferase 7 (alpha (1,3) fucosyltransferase)	0.00022	-1.44	Normal down vs Off IS Tolerant
202838_PM_at	FUCA1	fucosidase, alpha-L- 1, tissue	0.00022	-1.61	Normal down vs Off IS Tolerant
228921_PM_at	SLC25A42	solute carrier family 25, member 42	0.00022	1.39	Normal up vs Off IS Tolerant
207753_PM_at	ZNF304	zinc finger protein 304	0.00022	1.69	Normal up vs Off IS Tolerant
227701_PM_at	C10orf118	chromosome 10 open reading frame 118	0.00022	1.67	Normal up vs Off IS Tolerant
227255_PM_at	PDIK1L	PDLIM1 interacting kinase 1 like	0.00022	1.69	Normal up vs Off IS Tolerant
201114_PM_x_at	PSMA7	proteasome (prosome, macropain) subunit, alpha type, 7	0.00022	-1.25	Normal down vs Off IS Tolerant
239284_PM_at	---	---	0.00022	-1.45	Normal down vs Off IS Tolerant
227389_PM_x_at	---	---	0.00022	-1.53	Normal down vs Off IS Tolerant
225945_PM_at	ZNF655	zinc finger protein 655	0.00022	1.32	Normal up vs Off IS Tolerant
234456_PM_at	TRAPPC4	trafficking protein particle complex 4	0.00022	-1.31	Normal down vs Off IS Tolerant
236566_PM_at	---	---	0.00022	1.42	Normal up vs Off IS Tolerant
47773_PM_at	FBXO42	F-box protein 42	0.00023	1.72	Normal up vs Off IS Tolerant
243322_PM_at	---	---	0.00023	-1.53	Normal down vs Off IS Tolerant
205863_PM_at	S100A12	S100 calcium binding protein A12	0.00023	-1.85	Normal down vs Off IS Tolerant
204816_PM_s_at	DHX34	DEAH (Asp-Glu-Ala-His) box polypeptide 34	0.00023	-1.27	Normal down vs Off IS Tolerant
241568_PM_at	LOC100506319	hypothetical LOC100506319	0.00023	-1.30	Normal down vs Off IS Tolerant
207624_PM_s_at	RPGR	retinitis pigmentosa GTPase regulator	0.00023	1.85	Normal up vs Off IS Tolerant

225740_PM_x_at	MDM4	Mdm4 p53 binding protein homolog (mouse)	0.00023	1.34	Normal up vs Off IS Tolerant
225417_PM_at	EPC1	enhancer of polycomb homolog 1 (Drosophila)	0.00023	1.46	Normal up vs Off IS Tolerant
1559835_PM_at	---	---	0.00023	-1.88	Normal down vs Off IS Tolerant
208595_PM_s_at	MBD1	methyl-CpG binding domain protein 1	0.00023	1.47	Normal up vs Off IS Tolerant
1569157_PM_s_at	ZNF846	zinc finger protein 846	0.00023	1.91	Normal up vs Off IS Tolerant
1552312_PM_a_at	MFAP3	microfibrillar-associated protein 3	0.00024	-1.54	Normal down vs Off IS Tolerant
205146_PM_x_at	APBA3	amyloid beta (A4) precursor protein-binding, family A, member 3	0.00024	1.38	Normal up vs Off IS Tolerant
237046_PM_x_at	IL34	interleukin 34	0.00024	-1.47	Normal down vs Off IS Tolerant
239808_PM_at	---	---	0.00024	2.32	Normal up vs Off IS Tolerant
216830_PM_at	LOC100508624	e3 ubiquitin-protein ligase HERC2-like	0.00024	-1.46	Normal down vs Off IS Tolerant
224709_PM_s_at	CDC42SE2	CDC42 small effector 2	0.00024	1.30	Normal up vs Off IS Tolerant
218456_PM_at	CAPRIN2	caprin family member 2	0.00024	1.43	Normal up vs Off IS Tolerant
219337_PM_at	C1orf159	chromosome 1 open reading frame 159	0.00024	1.37	Normal up vs Off IS Tolerant
238910_PM_at	---	---	0.00024	1.83	Normal up vs Off IS Tolerant
237736_PM_at	---	---	0.00024	-1.35	Normal down vs Off IS Tolerant
232648_PM_at	PSMA3	proteasome (prosome, macropain) subunit, alpha type, 3	0.00025	1.67	Normal up vs Off IS Tolerant
1568248_PM_x_at	SNORA71B	small nucleolar RNA, H/ACA box 71B	0.00025	-1.50	Normal down vs Off IS Tolerant
223773_PM_s_at	SNHG12	small nucleolar RNA host gene 12 (non-protein coding)	0.00025	1.53	Normal up vs Off IS Tolerant
214717_PM_at	PK155	hypothetical protein DKFZp434H1419	0.00025	1.56	Normal up vs Off IS Tolerant
214043_PM_at	PTPRD	protein tyrosine phosphatase, receptor type, D	0.00025	-2.19	Normal down vs Off IS Tolerant
212693_PM_at	MDN1	MDN1, midasin homolog (yeast)	0.00025	1.40	Normal up vs Off IS Tolerant
218172_PM_s_at	DERL1	Der1-like domain family, member 1	0.00025	1.79	Normal up vs Off IS Tolerant

235365_PM_at	DFNB59	deafness, autosomal recessive 59	0.00025	1.46	Normal up vs Off IS Tolerant
221536_PM_s_at	LSG1	large subunit GTPase 1 homolog (S. cerevisiae)	0.00025	1.59	Normal up vs Off IS Tolerant
1553990_PM_at	C16orf79	chromosome 16 open reading frame 79	0.00025	1.49	Normal up vs Off IS Tolerant
214582_PM_at	PDE3B	phosphodiesterase 3B, cGMP-inhibited	0.00025	2.11	Normal up vs Off IS Tolerant
207528_PM_s_at	SLC7A11	solute carrier family 7, (cationic amino acid transporter, y+ system) member 11	0.00025	-1.49	Normal down vs Off IS Tolerant
202915_PM_s_at	FAM20B	family with sequence similarity 20, member B	0.00026	1.68	Normal up vs Off IS Tolerant
227007_PM_at	TMCO4	transmembrane and coiled-coil domains 4	0.00026	1.58	Normal up vs Off IS Tolerant
226889_PM_at	WDR35	WD repeat domain 35	0.00026	1.45	Normal up vs Off IS Tolerant
223501_PM_at	TNFSF13B	tumor necrosis factor (ligand) superfamily, member 13b	0.00026	-1.58	Normal down vs Off IS Tolerant
1555866_PM_a_at	HEXDC	hexosaminidase (glycosyl hydrolase family 20, catalytic domain) containing	0.00026	1.52	Normal up vs Off IS Tolerant
212044_PM_s_at	RPL27A	Ribosomal protein L27a	0.00026	-1.77	Normal down vs Off IS Tolerant
213683_PM_at	ACSL6	acyl-CoA synthetase long-chain family member 6	0.00026	1.52	Normal up vs Off IS Tolerant
223418_PM_x_at	ANKRD13C	ankyrin repeat domain 13C	0.00026	1.84	Normal up vs Off IS Tolerant
205536_PM_at	VAV2	vav 2 guanine nucleotide exchange factor	0.00026	-1.48	Normal down vs Off IS Tolerant
241486_PM_at	---	---	0.00026	-1.26	Normal down vs Off IS Tolerant
221350_PM_at	HOXC8	homeobox C8	0.00026	-1.26	Normal down vs Off IS Tolerant
217962_PM_at	NOP10	NOP10 ribonucleoprotein homolog (yeast)	0.00026	-1.52	Normal down vs Off IS Tolerant
211524_PM_at	NFKB2	nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p49/p100)	0.00027	-1.34	Normal down vs Off IS Tolerant

217052_PM_x_at	---	---	0.00027	-1.77	Normal down vs Off IS Tolerant
211034_PM_s_at	C12orf51	chromosome 12 open reading frame 51	0.00027	1.48	Normal up vs Off IS Tolerant
242560_PM_at	FANCD2	Fanconi anemia, complementation group D2	0.00027	1.68	Normal up vs Off IS Tolerant
203830_PM_at	C17orf75	chromosome 17 open reading frame 75	0.00027	1.48	Normal up vs Off IS Tolerant
217547_PM_x_at	ZNF675	zinc finger protein 675	0.00027	1.43	Normal up vs Off IS Tolerant
229711_PM_s_at	MDM2	Mdm2 p53 binding protein homolog (mouse)	0.00027	1.36	Normal up vs Off IS Tolerant
240252_PM_at	---	---	0.00027	-1.33	Normal down vs Off IS Tolerant
209229_PM_s_at	PPP6R1	protein phosphatase 6, regulatory subunit 1	0.00027	1.30	Normal up vs Off IS Tolerant
214518_PM_at	PDHA2	pyruvate dehydrogenase (lipoamide) alpha 2	0.00027	-1.50	Normal down vs Off IS Tolerant
222759_PM_at	SUV420H1	suppressor of variegation 4-20 homolog 1 (Drosophila)	0.00027	1.26	Normal up vs Off IS Tolerant
224673_PM_at	LENG8	leukocyte receptor cluster (LRC) member 8	0.00027	1.58	Normal up vs Off IS Tolerant
239295_PM_at	SRSF12	serine/arginine-rich splicing factor 12	0.00027	-1.37	Normal down vs Off IS Tolerant
223257_PM_at	G2E3	G2/M-phase specific E3 ubiquitin protein ligase	0.00027	1.58	Normal up vs Off IS Tolerant
227458_PM_at	CD274	CD274 molecule	0.00027	1.69	Normal up vs Off IS Tolerant
218900_PM_at	CNNM4	cyclin M4	0.00027	1.34	Normal up vs Off IS Tolerant
236254_PM_at	VPS13B	vacuolar protein sorting 13 homolog B (yeast)	0.00028	-1.36	Normal down vs Off IS Tolerant
237840_PM_at	LOC388948	hypothetical LOC388948	0.00028	-1.33	Normal down vs Off IS Tolerant
244379_PM_at	ANO7L1	anoctamin 7-like 1	0.00028	-1.33	Normal down vs Off IS Tolerant
1559042_PM_at	NDUFB6	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 6, 17kDa	0.00028	1.45	Normal up vs Off IS Tolerant

1560897_PM_a_at	KRTAP10-11	keratin associated protein 10-11	0.00028	-1.40	Normal down vs Off IS Tolerant
239969_PM_at	---	---	0.00028	1.55	Normal up vs Off IS Tolerant
227334_PM_at	USP54	ubiquitin specific peptidase 54	0.00028	1.41	Normal up vs Off IS Tolerant
211328_PM_x_at	HFE	hemochromatosis	0.00028	-1.35	Normal down vs Off IS Tolerant
227331_PM_at	ZNF740	zinc finger protein 740	0.00028	1.56	Normal up vs Off IS Tolerant
219605_PM_at	ZNF3	zinc finger protein 3	0.00028	-1.31	Normal down vs Off IS Tolerant
1560662_PM_s_at	WHAMML1 /// WHAMML2	WAS protein homolog associated with actin, golgi membranes and microtubules-like 1 (pse	0.00028	2.01	Normal up vs Off IS Tolerant
1552829_PM_at	---	---	0.00028	-2.18	Normal down vs Off IS Tolerant
242706_PM_s_at	MED23	mediator complex subunit 23	0.00028	2.33	Normal up vs Off IS Tolerant
228330_PM_at	ZUFSP	zinc finger with UFM1-specific peptidase domain	0.00028	1.75	Normal up vs Off IS Tolerant
224366_PM_s_at	REPS1	RALBP1 associated Eps domain containing 1	0.00028	1.30	Normal up vs Off IS Tolerant
210044_PM_s_at	LYL1	lymphoblastic leukemia derived sequence 1	0.00028	-1.45	Normal down vs Off IS Tolerant
243294_PM_at	ZNF780B	zinc finger protein 780B	0.00028	-1.34	Normal down vs Off IS Tolerant
203163_PM_at	KATNB1	katanin p80 (WD repeat containing) subunit B 1	0.00028	1.49	Normal up vs Off IS Tolerant
214789_PM_x_at	SRSF8	serine/arginine-rich splicing factor 8	0.00029	1.36	Normal up vs Off IS Tolerant
213077_PM_at	YTHDC2	YTH domain containing 2	0.00029	1.39	Normal up vs Off IS Tolerant
211985_PM_s_at	CALM1	calmodulin 1 (phosphorylase kinase, delta)	0.00029	1.59	Normal up vs Off IS Tolerant
212220_PM_at	PSME4	proteasome (prosome, macropain) activator subunit 4	0.00029	-1.68	Normal down vs Off IS Tolerant
200908_PM_s_at	RPLP2	ribosomal protein, large, P2	0.00029	-1.62	Normal down vs Off IS Tolerant

235621_PM_at	FAHD2A /// LOC285014	fumarylacetoacetate hydrolase domain containing 2A /// hypothetical protein LOC285014	0.00029	1.44	Normal up vs Off IS Tolerant
212356_PM_at	KHNYN	KH and NYN domain containing	0.00029	1.34	Normal up vs Off IS Tolerant
235502_PM_at	PPP2CA	protein phosphatase 2, catalytic subunit, alpha isozyme	0.00029	1.89	Normal up vs Off IS Tolerant
236974_PM_at	---	---	0.00029	2.00	Normal up vs Off IS Tolerant
200765_PM_x_at	CTNNA1	catenin (cadherin-associated protein), alpha 1, 102kDa	0.00029	-1.41	Normal down vs Off IS Tolerant
210042_PM_s_at	CTSZ	cathepsin Z	0.00029	-1.61	Normal down vs Off IS Tolerant
204425_PM_at	ARHGAP4	Rho GTPase activating protein 4	0.00029	1.49	Normal up vs Off IS Tolerant
212034_PM_s_at	EXOC7	exocyst complex component 7	0.00029	1.29	Normal up vs Off IS Tolerant
200699_PM_at	KDEL2	KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 2	0.00029	-1.63	Normal down vs Off IS Tolerant
211467_PM_s_at	NFIB	nuclear factor I/B	0.00029	-1.40	Normal down vs Off IS Tolerant
1561286_PM_a_at	DIP2A	DIP2 disco-interacting protein 2 homolog A (Drosophila)	0.00029	1.47	Normal up vs Off IS Tolerant
238623_PM_at	---	---	0.00029	1.88	Normal up vs Off IS Tolerant
202984_PM_s_at	BAG5	BCL2-associated athanogene 5	0.00030	1.38	Normal up vs Off IS Tolerant
224984_PM_at	NFAT5	nuclear factor of activated T-cells 5, tonicity-responsive	0.00030	1.26	Normal up vs Off IS Tolerant
203811_PM_s_at	DNAJB4	DnaJ (Hsp40) homolog, subfamily B, member 4	0.00030	1.28	Normal up vs Off IS Tolerant
228697_PM_at	HINT3	histidine triad nucleotide binding protein 3	0.00030	3.21	Normal up vs Off IS Tolerant
1556160_PM_a_at	---	---	0.00030	1.27	Normal up vs Off IS Tolerant
209232_PM_s_at	DCTN5	dynactin 5 (p25)	0.00030	1.39	Normal up vs Off IS Tolerant
1553007_PM_a_at	ODZ1	odz, odd Oz/ten-m homolog 1(Drosophila)	0.00030	-1.22	Normal down vs Off IS Tolerant
210973_PM_s_at	FGFR1	fibroblast growth factor receptor 1	0.00030	-1.49	Normal down vs Off IS Tolerant
218328_PM_at	COQ4	coenzyme Q4 homolog (S. cerevisiae)	0.00030	1.53	Normal up vs Off IS Tolerant
206194_PM_at	HOXC4	homeobox C4	0.00030	1.59	Normal up vs Off IS Tolerant

225226_PM_at	FAM40A	family with sequence similarity 40, member A	0.00030	1.27	Normal up vs Off IS Tolerant
32259_PM_at	EZH1	enhancer of zeste homolog 1 (Drosophila)	0.00030	1.37	Normal up vs Off IS Tolerant
239783_PM_at	---	---	0.00030	1.53	Normal up vs Off IS Tolerant
225452_PM_at	MED1	mediator complex subunit 1	0.00030	-1.27	Normal down vs Off IS Tolerant
232256_PM_s_at	LOC401321	hypothetical LOC401321	0.00030	-1.62	Normal down vs Off IS Tolerant
227036_PM_at	RASAL2	RAS protein activator like 2	0.00030	-1.36	Normal down vs Off IS Tolerant
1554450_PM_s_at	MIER3	mesoderm induction early response 1, family member 3	0.00030	1.78	Normal up vs Off IS Tolerant
202998_PM_s_at	LOXL2	lysyl oxidase-like 2	0.00030	1.29	Normal up vs Off IS Tolerant
206646_PM_at	GLI1	GLI family zinc finger 1	0.00030	-1.28	Normal down vs Off IS Tolerant
227852_PM_at	RP9	retinitis pigmentosa 9 (autosomal dominant)	0.00031	1.58	Normal up vs Off IS Tolerant
211194_PM_s_at	TP63	tumor protein p63	0.00031	-1.34	Normal down vs Off IS Tolerant
239846_PM_at	LOC100506245	hypothetical LOC100506245	0.00031	1.83	Normal up vs Off IS Tolerant
1554986_PM_a_at	SNX19	sorting nexin 19	0.00031	1.45	Normal up vs Off IS Tolerant
204481_PM_at	BRPF1	bromodomain and PHD finger containing, 1	0.00031	1.30	Normal up vs Off IS Tolerant
200871_PM_s_at	PSAP	prosaposin	0.00031	-1.26	Normal down vs Off IS Tolerant
228397_PM_at	TUG1	taurine upregulated 1 (non-protein coding)	0.00031	2.16	Normal up vs Off IS Tolerant
225249_PM_at	SPPL2B	signal peptide peptidase-like 2B	0.00031	1.43	Normal up vs Off IS Tolerant
202396_PM_at	TCERG1	transcription elongation regulator 1	0.00031	1.28	Normal up vs Off IS Tolerant
216421_PM_at	---	---	0.00031	1.36	Normal up vs Off IS Tolerant
226797_PM_at	MBTD1	mbt domain containing 1	0.00031	1.41	Normal up vs Off IS Tolerant
241984_PM_at	FOXN3	forkhead box N3	0.00031	-1.42	Normal down vs Off IS Tolerant

219823_PM_at	LIN28A	lin-28 homolog A (C. elegans)	0.00031	-1.27	Normal down vs Off IS Tolerant
212675_PM_s_at	CEP68	centrosomal protein 68kDa	0.00031	1.87	Normal up vs Off IS Tolerant
214972_PM_at	MGEA5	Meningioma expressed antigen 5 (hyaluronidase)	0.00031	2.15	Normal up vs Off IS Tolerant
225335_PM_at	ZNF496	zinc finger protein 496	0.00031	1.52	Normal up vs Off IS Tolerant
205255_PM_x_at	TCF7	transcription factor 7 (T-cell specific, HMG-box)	0.00031	1.78	Normal up vs Off IS Tolerant
1556465_PM_at	---	---	0.00031	-1.30	Normal down vs Off IS Tolerant
211358_PM_s_at	CIZ1	CDKN1A interacting zinc finger protein 1	0.00031	1.37	Normal up vs Off IS Tolerant
213243_PM_at	VPS13B	vacuolar protein sorting 13 homolog B (yeast)	0.00031	1.65	Normal up vs Off IS Tolerant
235452_PM_at	---	---	0.00031	1.56	Normal up vs Off IS Tolerant
41577_PM_at	PPP1R16B	protein phosphatase 1, regulatory (inhibitor) subunit 16B	0.00032	1.90	Normal up vs Off IS Tolerant
218841_PM_at	ASB8	ankyrin repeat and SOCS box-containing 8	0.00032	1.57	Normal up vs Off IS Tolerant
225947_PM_at	MYO19	myosin XIX	0.00032	1.47	Normal up vs Off IS Tolerant
44111_PM_at	VPS33B	vacuolar protein sorting 33 homolog B (yeast)	0.00032	1.35	Normal up vs Off IS Tolerant
208658_PM_at	PDIA4	protein disulfide isomerase family A, member 4	0.00032	-1.43	Normal down vs Off IS Tolerant
230526_PM_at	LOC100131096	hypothetical LOC100131096	0.00032	1.81	Normal up vs Off IS Tolerant
237648_PM_x_at	---	---	0.00032	-1.30	Normal down vs Off IS Tolerant
230768_PM_at	---	---	0.00032	1.51	Normal up vs Off IS Tolerant
225492_PM_at	TMEM33	transmembrane protein 33	0.00032	-1.36	Normal down vs Off IS Tolerant
214128_PM_at	DAGLA	diacylglycerol lipase, alpha	0.00032	-1.31	Normal down vs Off IS Tolerant
232927_PM_at	---	---	0.00032	-1.36	Normal down vs Off IS Tolerant

224482_PM_s_at	RAB11FIP4	RAB11 family interacting protein 4 (class II)	0.00033	1.61	Normal up vs Off IS Tolerant
214316_PM_x_at	LOC100507328 /// LOC100508591	hypothetical LOC100507328 /// hypothetical LOC100508591	0.00033	-1.60	Normal down vs Off IS Tolerant
208923_PM_at	CYFIP1	cytoplasmic FMR1 interacting protein 1	0.00033	-1.51	Normal down vs Off IS Tolerant
228847_PM_at	EXOC3	exocyst complex component 3	0.00033	1.51	Normal up vs Off IS Tolerant
240431_PM_at	---	---	0.00033	-1.56	Normal down vs Off IS Tolerant
236554_PM_x_at	TMC8	transmembrane channel-like 8	0.00033	1.53	Normal up vs Off IS Tolerant
228983_PM_at	---	---	0.00033	1.64	Normal up vs Off IS Tolerant
203723_PM_at	ITPKB	inositol 1,4,5-trisphosphate 3-kinase B	0.00033	1.70	Normal up vs Off IS Tolerant
203884_PM_s_at	RAB11FIP2	RAB11 family interacting protein 2 (class I)	0.00033	1.47	Normal up vs Off IS Tolerant
229679_PM_at	C12orf76 /// LOC100510175	chromosome 12 open reading frame 76 /// hypothetical LOC100510175	0.00033	1.75	Normal up vs Off IS Tolerant
238349_PM_at	UBN2	ubiquitin 2	0.00033	-1.45	Normal down vs Off IS Tolerant
219178_PM_at	QTRTD1	queuine tRNA-ribosyltransferase domain containing 1	0.00033	1.38	Normal up vs Off IS Tolerant
213036_PM_x_at	ATP2A3	ATPase, Ca ⁺⁺ transporting, ubiquitous	0.00033	1.46	Normal up vs Off IS Tolerant
212176_PM_at	SFRS18	splicing factor, arginine/serine-rich 18	0.00034	1.29	Normal up vs Off IS Tolerant
214915_PM_at	ZNF362	Zinc finger protein 362	0.00034	1.28	Normal up vs Off IS Tolerant
208884_PM_s_at	UBR5	ubiquitin protein ligase E3 component n-recogin 5	0.00034	1.33	Normal up vs Off IS Tolerant
239614_PM_x_at	---	---	0.00034	1.67	Normal up vs Off IS Tolerant
232565_PM_at	---	---	0.00034	1.89	Normal up vs Off IS Tolerant
1552634_PM_a_at	ZNF101	zinc finger protein 101	0.00034	2.08	Normal up vs Off IS Tolerant
1554806_PM_a_at	FBXO8	F-box protein 8	0.00034	1.95	Normal up vs Off IS Tolerant
228680_PM_at	KIF3A	kinesin family member 3A	0.00034	1.46	Normal up vs Off IS Tolerant
209853_PM_s_at	PSME3	proteasome (prosome, macropain) activator subunit 3 (PA28 gamma; Ki)	0.00034	-1.64	Normal down vs Off IS Tolerant
210757_PM_x_at	DAB2	disabled homolog 2, mitogen-responsive phosphoprotein (Drosophila)	0.00034	2.00	Normal up vs Off IS Tolerant

1565581_PM_at	---	---	0.00034	-1.35	Normal down vs Off IS Tolerant
227645_PM_at	PIK3R5	phosphoinositide-3-kinase, regulatory subunit 5	0.00034	1.38	Normal up vs Off IS Tolerant
201458_PM_s_at	BUB3	budding uninhibited by benzimidazoles 3 homolog (yeast)	0.00034	1.47	Normal up vs Off IS Tolerant
200051_PM_at	SART1	squamous cell carcinoma antigen recognized by T cells	0.00035	1.47	Normal up vs Off IS Tolerant
211963_PM_s_at	ARPC5	actin related protein 2/3 complex, subunit 5, 16kDa	0.00035	-1.36	Normal down vs Off IS Tolerant
38447_PM_at	ADRBK1	adrenergic, beta, receptor kinase 1	0.00035	-1.46	Normal down vs Off IS Tolerant
224737_PM_x_at	CCAR1	cell division cycle and apoptosis regulator 1	0.00035	1.38	Normal up vs Off IS Tolerant
1562682_PM_at	RORA	RAR-related orphan receptor A	0.00035	-1.44	Normal down vs Off IS Tolerant
241324_PM_at	---	---	0.00035	-1.45	Normal down vs Off IS Tolerant
1558088_PM_a_at	UBE2I	ubiquitin-conjugating enzyme E2I (UBC9 homolog, yeast)	0.00035	2.14	Normal up vs Off IS Tolerant
243995_PM_at	PTAR1	protein prenyltransferase alpha subunit repeat containing 1	0.00035	-1.54	Normal down vs Off IS Tolerant
239701_PM_at	---	---	0.00035	-1.76	Normal down vs Off IS Tolerant
234386_PM_s_at	---	---	0.00035	-1.30	Normal down vs Off IS Tolerant
217603_PM_at	ATP6V0A2	ATPase, H+ transporting, lysosomal V0 subunit a2	0.00035	1.55	Normal up vs Off IS Tolerant
235292_PM_at	FLJ32255	hypothetical LOC643977	0.00035	2.25	Normal up vs Off IS Tolerant
221741_PM_s_at	YTHDF1	YTH domain family, member 1	0.00035	1.24	Normal up vs Off IS Tolerant
216258_PM_s_at	SERPINB13	serpin peptidase inhibitor, clade B (ovalbumin), member 13	0.00035	-1.23	Normal down vs Off IS Tolerant
235485_PM_at	WDR44	WD repeat domain 44	0.00036	-1.33	Normal down vs Off IS Tolerant
241408_PM_at	CRIPAK	cysteine-rich PAK1 inhibitor	0.00036	1.49	Normal up vs Off IS Tolerant

233284_PM_at	---	---	0.00036	1.62	Normal up vs Off IS Tolerant
226608_PM_at	C16orf87	chromosome 16 open reading frame 87	0.00036	1.97	Normal up vs Off IS Tolerant
227548_PM_at	ORMDL1	ORM1-like 1 (<i>S. cerevisiae</i>)	0.00036	1.97	Normal up vs Off IS Tolerant
228760_PM_at	SRSF8	serine/arginine-rich splicing factor 8	0.00036	1.55	Normal up vs Off IS Tolerant
222543_PM_at	DERL1	Der1-like domain family, member 1	0.00036	1.36	Normal up vs Off IS Tolerant
213927_PM_at	MAP3K9	mitogen-activated protein kinase kinase kinase 9	0.00037	1.53	Normal up vs Off IS Tolerant
234972_PM_at	ARL16	ADP-ribosylation factor-like 16	0.00037	1.74	Normal up vs Off IS Tolerant
229463_PM_at	NTRK2	neurotrophic tyrosine kinase, receptor, type 2	0.00037	-1.66	Normal down vs Off IS Tolerant
1555996_PM_s_at	EIF4A2	eukaryotic translation initiation factor 4A2	0.00037	2.50	Normal up vs Off IS Tolerant
221541_PM_at	CRISPLD2	cysteine-rich secretory protein LCCL domain containing 2	0.00037	-2.09	Normal down vs Off IS Tolerant
213484_PM_at	---	---	0.00037	1.36	Normal up vs Off IS Tolerant
1556338_PM_at	---	---	0.00037	2.03	Normal up vs Off IS Tolerant
213934_PM_s_at	ZNF23	zinc finger protein 23 (KOX 16)	0.00037	1.68	Normal up vs Off IS Tolerant
242683_PM_at	LOC400643	hypothetical LOC400643	0.00037	-1.63	Normal down vs Off IS Tolerant
202349_PM_at	TOR1A	torsin family 1, member A (torsin A)	0.00037	-1.54	Normal down vs Off IS Tolerant
211368_PM_s_at	CASP1	caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, convertase)	0.00037	-1.38	Normal down vs Off IS Tolerant
221559_PM_s_at	MIS12	MIS12, MIND kinetochore complex component, homolog (<i>S. pombe</i>)	0.00037	1.44	Normal up vs Off IS Tolerant
237106_PM_at	SLC11A2	Solute carrier family 11 (proton-coupled divalent metal ion transporters), member 2	0.00037	1.77	Normal up vs Off IS Tolerant
201514_PM_s_at	G3BP1	GTPase activating protein (SH3 domain) binding protein 1	0.00037	-1.57	Normal down vs Off IS Tolerant
1561480_PM_a_at	---	---	0.00037	-1.51	Normal down vs Off IS Tolerant
241730_PM_at	MYNN	myoneurin	0.00037	1.59	Normal up vs Off IS Tolerant

208602_PM_x_at	CD6	CD6 molecule	0.00038	1.54	Normal up vs Off IS Tolerant
201675_PM_at	AKAP1	A kinase (PRKA) anchor protein 1	0.00038	1.41	Normal up vs Off IS Tolerant
1563088_PM_a_at	LOC284837	hypothetical LOC284837	0.00038	-2.11	Normal down vs Off IS Tolerant
208105_PM_at	GIPR	gastric inhibitory polypeptide receptor	0.00038	-1.34	Normal down vs Off IS Tolerant
236999_PM_at	---	---	0.00038	1.63	Normal up vs Off IS Tolerant
209390_PM_at	TSC1	tuberous sclerosis 1	0.00038	1.36	Normal up vs Off IS Tolerant
224511_PM_s_at	TXNDC17	thioredoxin domain containing 17	0.00038	-1.51	Normal down vs Off IS Tolerant
218284_PM_at	SMAD3	SMAD family member 3	0.00038	1.39	Normal up vs Off IS Tolerant
218476_PM_at	POMT1	protein-O-mannosyltransferase 1	0.00038	1.44	Normal up vs Off IS Tolerant
241991_PM_at	---	---	0.00038	1.77	Normal up vs Off IS Tolerant
232000_PM_at	TTC39B	Tetratricopeptide repeat domain 39B	0.00038	2.19	Normal up vs Off IS Tolerant
222680_PM_s_at	DTL	denticleless homolog (Drosophila)	0.00038	-1.53	Normal down vs Off IS Tolerant
223466_PM_x_at	COL4A3BP	collagen, type IV, alpha 3 (Goodpasture antigen) binding protein	0.00038	-1.26	Normal down vs Off IS Tolerant
222108_PM_at	AMIGO2	adhesion molecule with Ig-like domain 2	0.00038	1.74	Normal up vs Off IS Tolerant
234147_PM_at	LOC286059	hypothetical LOC286059	0.00038	-1.32	Normal down vs Off IS Tolerant
201413_PM_at	HSD17B4	hydroxysteroid (17-beta) dehydrogenase 4	0.00038	-1.57	Normal down vs Off IS Tolerant
39582_PM_at	CYLD	cylindromatosis (turban tumor syndrome)	0.00038	1.45	Normal up vs Off IS Tolerant
215367_PM_at	KIAA1614	KIAA1614	0.00039	-1.35	Normal down vs Off IS Tolerant
241153_PM_at	---	---	0.00039	-1.33	Normal down vs Off IS Tolerant
230427_PM_s_at	BAG5	BCL2-associated athanogene 5	0.00039	1.38	Normal up vs Off IS Tolerant
221943_PM_x_at	RPL38	Ribosomal protein L38	0.00039	-1.78	Normal down vs Off IS Tolerant
210346_PM_s_at	CLK4	CDC-like kinase 4	0.00039	1.30	Normal up vs Off IS Tolerant
242429_PM_at	ZNF567	zinc finger protein 567	0.00039	1.83	Normal up vs Off IS Tolerant

207303_PM_at	PDE1C	phosphodiesterase 1C, calmodulin-dependent 70kDa	0.00039	-1.64	Normal down vs Off IS Tolerant
235677_PM_at	SRR	Serine racemase	0.00039	1.59	Normal up vs Off IS Tolerant
1554444_PM_s_at	C2orf18	chromosome 2 open reading frame 18	0.00039	-1.53	Normal down vs Off IS Tolerant
211970_PM_x_at	ACTG1	actin, gamma 1	0.00040	-1.14	Normal down vs Off IS Tolerant
1566324_PM_a_at	MAF	v-maf musculoaponeurotic fibrosarcoma oncogene homolog (avian)	0.00040	1.94	Normal up vs Off IS Tolerant
216468_PM_s_at	ZNF682	zinc finger protein 682	0.00040	1.43	Normal up vs Off IS Tolerant
228033_PM_at	E2F7	E2F transcription factor 7	0.00040	-2.18	Normal down vs Off IS Tolerant
46142_PM_at	LMF1	lipase maturation factor 1	0.00040	1.57	Normal up vs Off IS Tolerant
1569885_PM_at	---	---	0.00040	-1.39	Normal down vs Off IS Tolerant
220250_PM_at	ZNF286A	zinc finger protein 286A	0.00040	-1.41	Normal down vs Off IS Tolerant
224657_PM_at	ERRFI1	ERBB receptor feedback inhibitor 1	0.00040	1.78	Normal up vs Off IS Tolerant
226143_PM_at	RAI1	retinoic acid induced 1	0.00040	1.35	Normal up vs Off IS Tolerant
213598_PM_at	---	---	0.00040	1.65	Normal up vs Off IS Tolerant
201274_PM_at	PSMA5	proteasome (prosome, macropain) subunit, alpha type, 5	0.00041	-1.43	Normal down vs Off IS Tolerant
241783_PM_at	---	---	0.00041	-1.32	Normal down vs Off IS Tolerant
236760_PM_at	AMMECR1	Alport syndrome, mental retardation, midface hypoplasia and elliptocytosis chromosomal	0.00041	1.56	Normal up vs Off IS Tolerant
1557548_PM_at	C10orf108	chromosome 10 open reading frame 108	0.00041	-1.24	Normal down vs Off IS Tolerant
234263_PM_at	---	---	0.00041	-1.34	Normal down vs Off IS Tolerant
242876_PM_at	AKT3	V-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma)	0.00041	1.78	Normal up vs Off IS Tolerant

217891_PM_at	C16orf58	chromosome 16 open reading frame 58	0.00041	1.40	Normal up vs Off IS Tolerant
210125_PM_s_at	BANF1	barrier to autointegration factor 1	0.00041	-1.46	Normal down vs Off IS Tolerant
38043_PM_at	FAM3A	family with sequence similarity 3, member A	0.00041	1.28	Normal up vs Off IS Tolerant
210234_PM_at	GRM4	glutamate receptor, metabotropic 4	0.00041	-1.25	Normal down vs Off IS Tolerant
229838_PM_at	NUCB2	nucleobindin 2	0.00041	1.76	Normal up vs Off IS Tolerant
221945_PM_at	FBXO41	F-box protein 41	0.00041	1.29	Normal up vs Off IS Tolerant
1555076_PM_at	ARHGAP25	Rho GTPase activating protein 25	0.00042	-1.33	Normal down vs Off IS Tolerant
219147_PM_s_at	C9orf95	chromosome 9 open reading frame 95	0.00042	1.79	Normal up vs Off IS Tolerant
212274_PM_at	LPIN1	lipin 1	0.00042	1.57	Normal up vs Off IS Tolerant
203300_PM_x_at	AP1S2	adaptor-related protein complex 1, sigma 2 subunit	0.00042	-1.43	Normal down vs Off IS Tolerant
220189_PM_s_at	MGAT4B	mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase, isozyme B	0.00042	1.63	Normal up vs Off IS Tolerant
222655_PM_s_at	IMPAD1	inositol monophosphatase domain containing 1	0.00042	-1.28	Normal down vs Off IS Tolerant
227722_PM_at	RPS23	ribosomal protein S23	0.00042	2.29	Normal up vs Off IS Tolerant
214918_PM_at	HNRNPM	heterogeneous nuclear ribonucleoprotein M	0.00042	2.18	Normal up vs Off IS Tolerant
233049_PM_x_at	STUB1	STIP1 homology and U-box containing protein 1, E3 ubiquitin protein ligase	0.00043	1.20	Normal up vs Off IS Tolerant
236832_PM_at	LOC221442	adenylate cyclase 10 pseudogene	0.00043	1.70	Normal up vs Off IS Tolerant
201040_PM_at	GNAI2	guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 2	0.00043	-1.42	Normal down vs Off IS Tolerant
226704_PM_at	UBE2J2	ubiquitin-conjugating enzyme E2, J2 (UBC6 homolog, yeast)	0.00043	-1.42	Normal down vs Off IS Tolerant

229447_PM_x_at	NBPF1 /// NBPF10 /// NBPF11 /// NBPF12 /// NBPF14 /// NBPF15 /// NBPF16 /// NBPF24 /// NBPF8 /// NBPF9	neuroblastoma breakpoint family, member 1 /// neuroblastoma breakpoint family, member 1	0.00043	1.21	Normal up vs Off IS Tolerant
227754_PM_at	---	---	0.00043	1.51	Normal up vs Off IS Tolerant
1565002_PM_at	---	---	0.00043	-1.36	Normal down vs Off IS Tolerant
211698_PM_at	EID1	EP300 interacting inhibitor of differentiation 1	0.00043	1.44	Normal up vs Off IS Tolerant
210540_PM_s_at	B4GALT4	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 4	0.00043	1.55	Normal up vs Off IS Tolerant
226045_PM_at	FRS2	fibroblast growth factor receptor substrate 2	0.00043	1.73	Normal up vs Off IS Tolerant
228451_PM_at	TSSK3	Testis-specific serine kinase 3	0.00043	1.33	Normal up vs Off IS Tolerant
207353_PM_s_at	HMX1	H6 family homeobox 1	0.00043	-1.52	Normal down vs Off IS Tolerant
220215_PM_at	ZNF669	zinc finger protein 669	0.00043	1.54	Normal up vs Off IS Tolerant
233108_PM_at	---	---	0.00043	-1.30	Normal down vs Off IS Tolerant
209901_PM_x_at	AIF1	allograft inflammatory factor 1	0.00043	-1.45	Normal down vs Off IS Tolerant
227134_PM_at	SYTL1	synaptotagmin-like 1	0.00043	1.57	Normal up vs Off IS Tolerant
204125_PM_at	NDUFAF1	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, assembly factor 1	0.00044	-1.93	Normal down vs Off IS Tolerant
213593_PM_s_at	TRA2A	transformer 2 alpha homolog (Drosophila)	0.00044	1.62	Normal up vs Off IS Tolerant
37802_PM_r_at	FAM63B	family with sequence similarity 63, member B	0.00044	1.24	Normal up vs Off IS Tolerant
222041_PM_at	DPH1 /// OVCA2	DPH1 homolog (<i>S. cerevisiae</i>) /// ovarian tumor suppressor candidate 2	0.00044	1.43	Normal up vs Off IS Tolerant
232205_PM_at	---	---	0.00044	1.44	Normal up vs Off IS Tolerant

233255_PM_s_at	BIVM	basic, immunoglobulin-like variable motif containing	0.00044	1.73	Normal up vs Off IS Tolerant
222965_PM_at	PRO2214	hypothetical protein PRO2214	0.00044	-1.61	Normal down vs Off IS Tolerant
214194_PM_at	DIS3	DIS3 mitotic control homolog (S. cerevisiae)	0.00044	1.56	Normal up vs Off IS Tolerant
209889_PM_at	SEC31B	SEC31 homolog B (S. cerevisiae)	0.00044	1.48	Normal up vs Off IS Tolerant
1561148_PM_at	---	---	0.00044	-1.39	Normal down vs Off IS Tolerant
221810_PM_at	RAB15	RAB15, member RAS oncogene family	0.00044	1.58	Normal up vs Off IS Tolerant
207713_PM_s_at	RBCK1	RanBP-type and C3HC4-type zinc finger containing 1	0.00044	1.39	Normal up vs Off IS Tolerant
225172_PM_at	CRAMP1L	Crm, cramped-like (Drosophila)	0.00044	1.51	Normal up vs Off IS Tolerant
222182_PM_s_at	CNOT2	CCR4-NOT transcription complex, subunit 2	0.00044	1.22	Normal up vs Off IS Tolerant
217353_PM_at	HNRNPA1 /// HNRNPA1L2 /// HNRNPA1P10 /// HNRPA1P5 /// LOC642817	heterogeneous nuclear ribonucleoprotein A1 /// heterogeneous nuclear ribonucleoprotein	0.00044	1.25	Normal up vs Off IS Tolerant
226682_PM_at	RORA	RAR-related orphan receptor A	0.00044	1.88	Normal up vs Off IS Tolerant
212096_PM_s_at	MTUS1	microtubule associated tumor suppressor 1	0.00044	2.00	Normal up vs Off IS Tolerant
240357_PM_at	---	---	0.00045	-1.33	Normal down vs Off IS Tolerant
215941_PM_at	---	---	0.00045	-1.28	Normal down vs Off IS Tolerant
213612_PM_x_at	NBPF12	neuroblastoma breakpoint family, member 12	0.00045	1.19	Normal up vs Off IS Tolerant
239725_PM_at	PGAP1	post-GPI attachment to proteins 1	0.00045	1.53	Normal up vs Off IS Tolerant
232650_PM_at	C12orf65	chromosome 12 open reading frame 65	0.00045	1.43	Normal up vs Off IS Tolerant
206743_PM_s_at	ASGR1	asialoglycoprotein receptor 1	0.00045	-1.85	Normal down vs Off IS Tolerant

230791_PM_at	---	---	0.00045	-1.48	Normal down vs Off IS Tolerant
205212_PM_s_at	ACAP1	ArfGAP with coiled-coil, ankyrin repeat and PH domains 1	0.00045	1.47	Normal up vs Off IS Tolerant
211199_PM_s_at	ICOSLG	inducible T-cell co-stimulator ligand	0.00045	1.75	Normal up vs Off IS Tolerant
1554503_PM_a_at	OSCAR	osteoclast associated, immunoglobulin-like receptor	0.00045	-1.85	Normal down vs Off IS Tolerant
1557837_PM_a_at	ELMOD2	ELMO/CED-12 domain containing 2	0.00045	-1.47	Normal down vs Off IS Tolerant
225655_PM_at	UHRF1	ubiquitin-like with PHD and ring finger domains 1	0.00045	-1.75	Normal down vs Off IS Tolerant
229535_PM_at	PTPMT1	protein tyrosine phosphatase, mitochondrial 1	0.00046	1.60	Normal up vs Off IS Tolerant
1570048_PM_at	DNAJC24	DnaJ (Hsp40) homolog, subfamily C, member 24	0.00046	-1.28	Normal down vs Off IS Tolerant
219451_PM_at	MSRB2	methionine sulfoxide reductase B2	0.00046	-1.69	Normal down vs Off IS Tolerant
229907_PM_at	---	---	0.00046	1.92	Normal up vs Off IS Tolerant
1563130_PM_a_at	---	---	0.00046	1.78	Normal up vs Off IS Tolerant
235901_PM_at	---	---	0.00046	1.56	Normal up vs Off IS Tolerant
226168_PM_at	ZFAND2B	zinc finger, AN1-type domain 2B	0.00046	1.29	Normal up vs Off IS Tolerant
1562058_PM_at	---	---	0.00046	-1.22	Normal down vs Off IS Tolerant
209042_PM_s_at	UBE2G2	ubiquitin-conjugating enzyme E2G 2 (UBC7 homolog, yeast)	0.00046	1.27	Normal up vs Off IS Tolerant
205728_PM_at	ODZ1	odz, odd Oz/ten-m homolog 1(Drosophila)	0.00046	1.65	Normal up vs Off IS Tolerant
232130_PM_at	---	---	0.00046	1.86	Normal up vs Off IS Tolerant
243310_PM_at	---	---	0.00046	1.71	Normal up vs Off IS Tolerant
204800_PM_s_at	DHRS12	dehydrogenase/reductase (SDR family) member 12	0.00046	1.63	Normal up vs Off IS Tolerant
1558425_PM_x_at	NCRNA00265	non-protein coding RNA 265	0.00046	-1.35	Normal down vs Off IS Tolerant
228122_PM_at	CCDC66	coiled-coil domain containing 66	0.00047	1.87	Normal up vs Off IS Tolerant

218860_PM_at	NOC4L	nucleolar complex associated 4 homolog (S. cerevisiae)	0.00047	1.59	Normal up vs Off IS Tolerant
203118_PM_at	PCSK7	proprotein convertase subtilisin/kexin type 7	0.00047	1.40	Normal up vs Off IS Tolerant
203281_PM_s_at	UBA7	ubiquitin-like modifier activating enzyme 7	0.00047	1.40	Normal up vs Off IS Tolerant
244778_PM_x_at	---	---	0.00047	1.61	Normal up vs Off IS Tolerant
203580_PM_s_at	SLC7A6	solute carrier family 7 (cationic amino acid transporter, y+ system), member 6	0.00047	1.62	Normal up vs Off IS Tolerant
226424_PM_at	CAPS	calcyphosine	0.00047	1.43	Normal up vs Off IS Tolerant
200899_PM_s_at	MGEA5	meningioma expressed antigen 5 (hyaluronidase)	0.00047	1.37	Normal up vs Off IS Tolerant
218268_PM_at	TBC1D15	TBC1 domain family, member 15	0.00047	1.52	Normal up vs Off IS Tolerant
227338_PM_at	LOC440983	Hypothetical gene supported by BC066916	0.00047	-1.41	Normal down vs Off IS Tolerant
1569680_PM_at	---	---	0.00047	-1.74	Normal down vs Off IS Tolerant
202268_PM_s_at	NAE1	NEDD8 activating enzyme E1 subunit 1	0.00048	1.44	Normal up vs Off IS Tolerant
224312_PM_x_at	CPSF3L	cleavage and polyadenylation specific factor 3-like	0.00048	1.39	Normal up vs Off IS Tolerant
211160_PM_x_at	ACTN1	actinin, alpha 1	0.00048	1.45	Normal up vs Off IS Tolerant
219233_PM_s_at	GSDMB	gasdermin B	0.00048	1.91	Normal up vs Off IS Tolerant
239063_PM_at	---	---	0.00048	1.40	Normal up vs Off IS Tolerant
240339_PM_at	---	---	0.00048	1.79	Normal up vs Off IS Tolerant
230209_PM_at	ZXDC	ZXD family zinc finger C	0.00048	1.56	Normal up vs Off IS Tolerant
241566_PM_at	---	---	0.00048	-1.40	Normal down vs Off IS Tolerant
232910_PM_at	NCRNA00081	non-protein coding RNA 81	0.00048	1.50	Normal up vs Off IS Tolerant
205518_PM_s_at	CMAH	cytidine monophosphate-N-acetylneuraminic acid hydroxylase (CMP-N-acetylneuramate mon	0.00048	1.68	Normal up vs Off IS Tolerant
1558987_PM_at	---	---	0.00048	1.32	Normal up vs Off IS Tolerant
228165_PM_at	C12orf53	chromosome 12 open reading frame 53	0.00048	-1.32	Normal down vs Off IS Tolerant

234975_PM_at	GSPT1	G1 to S phase transition 1	0.00049	1.75	Normal up vs Off IS Tolerant
1552791_PM_a_at	TRDN	triadin	0.00049	-1.53	Normal down vs Off IS Tolerant
1561761_PM_x_at	LOC645513	Hypothetical LOC645513	0.00049	1.51	Normal up vs Off IS Tolerant
203154_PM_s_at	PAK4	p21 protein (Cdc42/Rac)-activated kinase 4	0.00049	1.29	Normal up vs Off IS Tolerant
222214_PM_at	---	---	0.00049	1.56	Normal up vs Off IS Tolerant
204613_PM_at	PLCG2	phospholipase C, gamma 2 (phosphatidylinositol-specific)	0.00049	-1.40	Normal down vs Off IS Tolerant
239346_PM_at	---	---	0.00049	1.86	Normal up vs Off IS Tolerant
213295_PM_at	CYLD	cylindromatosis (turban tumor syndrome)	0.00049	1.40	Normal up vs Off IS Tolerant
233433_PM_at	---	---	0.00049	-1.41	Normal down vs Off IS Tolerant
203100_PM_s_at	CDYL	chromodomain protein, Y-like	0.00049	1.51	Normal up vs Off IS Tolerant
218116_PM_at	C9orf78	chromosome 9 open reading frame 78	0.00049	1.55	Normal up vs Off IS Tolerant
214834_PM_at	PAR5	Prader-Willi/Angelman syndrome-5	0.00050	1.36	Normal up vs Off IS Tolerant
213095_PM_x_at	AIF1	allograft inflammatory factor 1	0.00050	-1.46	Normal down vs Off IS Tolerant
202847_PM_at	PCK2	phosphoenolpyruvate carboxykinase 2 (mitochondrial)	0.00050	-1.53	Normal down vs Off IS Tolerant
214295_PM_at	KIAA0485	hypothetical LOC57235	0.00050	-1.75	Normal down vs Off IS Tolerant
217580_PM_x_at	---	---	0.00050	-1.80	Normal down vs Off IS Tolerant
206485_PM_at	CD5	CD5 molecule	0.00050	1.69	Normal up vs Off IS Tolerant
224597_PM_at	LOC647979	hypothetical LOC647979	0.00050	1.21	Normal up vs Off IS Tolerant
202862_PM_at	FAH	fumarylacetoacetate hydrolase (fumarylacetoacetase)	0.00050	1.55	Normal up vs Off IS Tolerant
236657_PM_at	LOC100288911	hypothetical LOC100288911	0.00050	-1.47	Normal down vs Off IS Tolerant
233761_PM_at	---	---	0.00051	-1.31	Normal down vs Off IS Tolerant
1555847_PM_a_at	LOC284454	hypothetical LOC284454	0.00051	-2.04	Normal down vs Off IS Tolerant

217584_PM_at	NPC1	Niemann-Pick disease, type C1	0.00051	1.59	Normal up vs Off IS Tolerant
215468_PM_at	LOC647070	hypothetical LOC647070	0.00051	-1.32	Normal down vs Off IS Tolerant
1557388_PM_at	RTTN	rotatin	0.00051	-1.69	Normal down vs Off IS Tolerant
1557491_PM_at	LOC100240728	hypothetical LOC100240728	0.00051	-1.45	Normal down vs Off IS Tolerant
242352_PM_at	NIPBL	Nipped-B homolog (Drosophila)	0.00051	-1.40	Normal down vs Off IS Tolerant
240788_PM_at	---	---	0.00051	-1.44	Normal down vs Off IS Tolerant
225909_PM_at	LOC728743	similar to GLI-Kruppel family member HKR1	0.00051	1.75	Normal up vs Off IS Tolerant
236730_PM_at	GIPC3	GIPC PDZ domain containing family, member 3	0.00052	-1.37	Normal down vs Off IS Tolerant
209570_PM_s_at	D4S234E	DNA segment on chromosome 4 (unique) 234 expressed sequence	0.00052	2.17	Normal up vs Off IS Tolerant
225133_PM_at	KLF3	Kruppel-like factor 3 (basic)	0.00052	1.40	Normal up vs Off IS Tolerant
1556817_PM_a_at	---	---	0.00052	-2.16	Normal down vs Off IS Tolerant
238475_PM_at	ALG10B	asparagine-linked glycosylation 10, alpha- 1,2-glucosyltransferase homolog B (yeast)	0.00052	1.57	Normal up vs Off IS Tolerant
1555412_PM_at	FBXL21	F-box and leucine-rich repeat protein 21 (gene/pseudogene)	0.00052	-2.02	Normal down vs Off IS Tolerant
220617_PM_s_at	ZNF532	zinc finger protein 532	0.00052	-1.47	Normal down vs Off IS Tolerant
229949_PM_at	LOC100507625	hypothetical LOC100507625	0.00052	1.34	Normal up vs Off IS Tolerant
232478_PM_at	---	---	0.00052	-1.71	Normal down vs Off IS Tolerant
235556_PM_at	C5orf41	chromosome 5 open reading frame 41	0.00052	1.46	Normal up vs Off IS Tolerant
35179_PM_at	B3GAT3	beta-1,3-glucuronyltransferase 3 (glucuronosyltransferase I)	0.00052	1.33	Normal up vs Off IS Tolerant
1555990_PM_at	C22orf42	chromosome 22 open reading frame 42	0.00052	-2.11	Normal down vs Off IS Tolerant

1564274_PM_at	C9orf47	chromosome 9 open reading frame 47	0.00052	-1.64	Normal down vs Off IS Tolerant
244486_PM_at	---	---	0.00053	1.86	Normal up vs Off IS Tolerant
211094_PM_s_at	NF1	neurofibromin 1	0.00053	-1.61	Normal down vs Off IS Tolerant
230965_PM_at	USP2	ubiquitin specific peptidase 2	0.00053	-1.26	Normal down vs Off IS Tolerant
1562596_PM_at	---	---	0.00053	-1.28	Normal down vs Off IS Tolerant
236134_PM_at	DCAF7	DDB1 and CUL4 associated factor 7	0.00053	1.61	Normal up vs Off IS Tolerant
212000_PM_at	SUGP2	SURP and G patch domain containing 2	0.00053	1.82	Normal up vs Off IS Tolerant
218343_PM_s_at	GTF3C3	general transcription factor IIIC, polypeptide 3, 102kDa	0.00053	1.33	Normal up vs Off IS Tolerant
243601_PM_at	LOC285957	hypothetical protein LOC285957	0.00053	1.66	Normal up vs Off IS Tolerant
202501_PM_at	MAPRE2	microtubule-associated protein, RP/EB family, member 2	0.00053	1.29	Normal up vs Off IS Tolerant
243638_PM_at	---	---	0.00053	-1.46	Normal down vs Off IS Tolerant
219171_PM_s_at	ZNF236	zinc finger protein 236	0.00053	1.42	Normal up vs Off IS Tolerant
226068_PM_at	SYK	spleen tyrosine kinase	0.00053	-1.37	Normal down vs Off IS Tolerant
222115_PM_x_at	GLYR1	glyoxylate reductase 1 homolog (Arabidopsis)	0.00053	1.28	Normal up vs Off IS Tolerant
1560354_PM_at	CCDC127	Coiled-coil domain containing 127	0.00053	1.31	Normal up vs Off IS Tolerant
1563105_PM_at	---	---	0.00053	-1.34	Normal down vs Off IS Tolerant
208574_PM_at	SOX14	SRY (sex determining region Y)-box 14	0.00053	-1.34	Normal down vs Off IS Tolerant
213214_PM_x_at	ACTG1	actin, gamma 1	0.00053	-1.12	Normal down vs Off IS Tolerant
226567_PM_at	USP14	ubiquitin specific peptidase 14 (tRNA-guanine transglycosylase)	0.00053	1.32	Normal up vs Off IS Tolerant
205134_PM_s_at	NUFIP1	nuclear fragile X mental retardation protein interacting protein 1	0.00054	1.63	Normal up vs Off IS Tolerant
240338_PM_at	---	---	0.00054	1.64	Normal up vs Off IS Tolerant

206618_PM_at	IL18R1	interleukin 18 receptor 1	0.00054	1.98	Normal up vs Off IS Tolerant
234419_PM_x_at	IGHA1 /// IGHG1 /// IGHG3 /// IGHM /// IGHV4-31 /// LOC100293211	immunoglobulin heavy constant alpha 1 /// immunoglobulin heavy constant gamma 1 (G1m ma	0.00054	-1.37	Normal down vs Off IS Tolerant
224869_PM_s_at	MRPS25	mitochondrial ribosomal protein S25	0.00054	-1.48	Normal down vs Off IS Tolerant
1562989_PM_at	---	---	0.00054	-1.31	Normal down vs Off IS Tolerant
209379_PM_s_at	FAM190B	family with sequence similarity 190, member B	0.00054	1.43	Normal up vs Off IS Tolerant
222382_PM_x_at	NUP205	nucleoporin 205kDa	0.00054	1.35	Normal up vs Off IS Tolerant
219215_PM_s_at	SLC39A4	solute carrier family 39 (zinc transporter), member 4	0.00055	1.73	Normal up vs Off IS Tolerant
202920_PM_at	ANK2	ankyrin 2, neuronal	0.00055	-1.41	Normal down vs Off IS Tolerant
220121_PM_at	LINS	lines homolog (Drosophila)	0.00055	1.76	Normal up vs Off IS Tolerant
223136_PM_at	AIG1	androgen-induced 1	0.00055	1.92	Normal up vs Off IS Tolerant
222981_PM_s_at	RAB10	RAB10, member RAS oncogene family	0.00055	-1.91	Normal down vs Off IS Tolerant
244382_PM_at	---	---	0.00055	2.03	Normal up vs Off IS Tolerant
235905_PM_at	ZNF704	zinc finger protein 704	0.00055	-1.35	Normal down vs Off IS Tolerant
1560566_PM_at	PCDH20	Protocadherin 20	0.00055	-1.29	Normal down vs Off IS Tolerant
231845_PM_at	AARS2	alanyl-tRNA synthetase 2, mitochondrial (putative)	0.00055	1.45	Normal up vs Off IS Tolerant
203923_PM_s_at	CYBB	cytochrome b-245, beta polypeptide	0.00055	-1.33	Normal down vs Off IS Tolerant
242799_PM_at	---	---	0.00055	-1.32	Normal down vs Off IS Tolerant
233803_PM_s_at	MYBBP1A	MYB binding protein (P160) 1a	0.00055	1.32	Normal up vs Off IS Tolerant
231215_PM_at	---	---	0.00056	1.50	Normal up vs Off IS Tolerant
235587_PM_at	LOC202781	hypothetical LOC202781	0.00056	1.77	Normal up vs Off IS Tolerant

243252_PM_at	---	---	0.00056	-1.39	Normal down vs Off IS Tolerant
225488_PM_at	DERL1	Der1-like domain family, member 1	0.00056	1.37	Normal up vs Off IS Tolerant
1556560_PM_a_at	LOC100128071	similar to hCG41624	0.00056	1.37	Normal up vs Off IS Tolerant
1564211_PM_at	C14orf64	chromosome 14 open reading frame 64	0.00056	1.51	Normal up vs Off IS Tolerant
219640_PM_at	CLDN15	claudin 15	0.00056	1.39	Normal up vs Off IS Tolerant
229629_PM_at	---	---	0.00056	1.95	Normal up vs Off IS Tolerant
206789_PM_s_at	POU2F1	POU class 2 homeobox 1	0.00056	1.35	Normal up vs Off IS Tolerant
1563898_PM_at	---	---	0.00056	-1.37	Normal down vs Off IS Tolerant
232722_PM_at	RNASSET2	ribonuclease T2	0.00056	1.75	Normal up vs Off IS Tolerant
244046_PM_at	URGCP	upregulator of cell proliferation	0.00056	1.68	Normal up vs Off IS Tolerant
236313_PM_at	CDKN2B	cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4)	0.00056	-1.39	Normal down vs Off IS Tolerant
225251_PM_at	RAB24	RAB24, member RAS oncogene family	0.00056	-1.34	Normal down vs Off IS Tolerant
155529_PM_at	RNH1	ribonuclease/angiogenin inhibitor 1	0.00057	-1.24	Normal down vs Off IS Tolerant
219828_PM_at	C9orf86	chromosome 9 open reading frame 86	0.00057	1.37	Normal up vs Off IS Tolerant
1557398_PM_at	---	---	0.00057	-1.29	Normal down vs Off IS Tolerant
238797_PM_at	TRIM11	tripartite motif-containing 11	0.00057	1.82	Normal up vs Off IS Tolerant
225615_PM_at	IFFO2	intermediate filament family orphan 2	0.00057	1.52	Normal up vs Off IS Tolerant
1552717_PM_s_at	CEP170 /// CEP170P1	centrosomal protein 170kDa /// centrosomal protein 170kDa pseudogene 1	0.00057	-1.49	Normal down vs Off IS Tolerant
203366_PM_at	POLG	polymerase (DNA directed), gamma	0.00057	1.23	Normal up vs Off IS Tolerant
212660_PM_at	PHF15	PHD finger protein 15	0.00057	1.72	Normal up vs Off IS Tolerant
1553749_PM_at	FAM76B	family with sequence similarity 76, member B	0.00057	1.86	Normal up vs Off IS Tolerant
238869_PM_at	---	---	0.00057	-1.51	Normal down vs Off IS Tolerant
208841_PM_s_at	G3BP2	GTPase activating protein (SH3 domain) binding protein 2	0.00057	1.36	Normal up vs Off IS Tolerant

213475_PM_s_at	ITGAL	integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; alph	0.00057	1.33	Normal up vs Off IS Tolerant
223165_PM_s_at	IP6K2	inositol hexakisphosphate kinase 2	0.00057	1.83	Normal up vs Off IS Tolerant
229180_PM_at	WWC1	WW and C2 domain containing 1	0.00057	-1.28	Normal down vs Off IS Tolerant
225385_PM_s_at	HNRPLL	heterogeneous nuclear ribonucleoprotein L-like	0.00058	1.46	Normal up vs Off IS Tolerant
211444_PM_at	---	---	0.00058	1.49	Normal up vs Off IS Tolerant
201761_PM_at	MTHFD2	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2, methenyltetrahydrofolate c	0.00058	-1.33	Normal down vs Off IS Tolerant
202163_PM_s_at	CNOT8	CCR4-NOT transcription complex, subunit 8	0.00058	1.28	Normal up vs Off IS Tolerant
216004_PM_s_at	PKNOX1	PBX/knotted 1 homeobox 1	0.00058	-1.29	Normal down vs Off IS Tolerant
233515_PM_at	---	---	0.00058	1.56	Normal up vs Off IS Tolerant
243888_PM_at	---	---	0.00058	1.83	Normal up vs Off IS Tolerant
226892_PM_at	C10orf12	chromosome 10 open reading frame 12	0.00058	1.55	Normal up vs Off IS Tolerant
228710_PM_at	---	---	0.00058	1.50	Normal up vs Off IS Tolerant
220323_PM_at	CNTD2	cyclin N-terminal domain containing 2	0.00058	-1.35	Normal down vs Off IS Tolerant
239168_PM_at	LOC150622	hypothetical LOC150622	0.00058	-1.35	Normal down vs Off IS Tolerant
225237_PM_s_at	MSI2	musashi homolog 2 (Drosophila)	0.00058	1.80	Normal up vs Off IS Tolerant
229555_PM_at	GALNT5	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 5 (Gal	0.00058	-1.37	Normal down vs Off IS Tolerant
208577_PM_at	HIST1H3C	histone cluster 1, H3c	0.00059	1.20	Normal up vs Off IS Tolerant
232077_PM_s_at	YPEL3	yippee-like 3 (Drosophila)	0.00059	1.66	Normal up vs Off IS Tolerant
213239_PM_at	PIBF1	progesterone immunomodulatory binding factor 1	0.00059	1.46	Normal up vs Off IS Tolerant
210607_PM_at	FLT3LG	fms-related tyrosine kinase 3 ligand	0.00059	2.03	Normal up vs Off IS Tolerant

237699_PM_at	LOC100507040	hypothetical LOC100507040	0.00059	-1.23	Normal down vs Off IS Tolerant
220319_PM_s_at	MYLIP	myosin regulatory light chain interacting protein	0.00059	1.74	Normal up vs Off IS Tolerant
221014_PM_s_at	RAB33B	RAB33B, member RAS oncogene family	0.00059	1.55	Normal up vs Off IS Tolerant
232202_PM_at	---	---	0.00059	-1.43	Normal down vs Off IS Tolerant
238913_PM_at	---	---	0.00059	1.65	Normal up vs Off IS Tolerant
207926_PM_at	GP5	glycoprotein V (platelet)	0.00059	1.50	Normal up vs Off IS Tolerant
1558249_PM_s_at	STX16	syntaxin 16	0.00059	1.76	Normal up vs Off IS Tolerant
219918_PM_s_at	ASPM	asp (abnormal spindle) homolog, microcephaly associated (Drosophila)	0.00059	-1.68	Normal down vs Off IS Tolerant
210563_PM_x_at	CFLAR	CASP8 and FADD-like apoptosis regulator	0.00059	1.69	Normal up vs Off IS Tolerant
204534_PM_at	VTN	vitronectin	0.00059	-1.30	Normal down vs Off IS Tolerant
214173_PM_x_at	C19orf2	chromosome 19 open reading frame 2	0.00059	1.31	Normal up vs Off IS Tolerant
204323_PM_x_at	NF1	neurofibromin 1	0.00060	-1.57	Normal down vs Off IS Tolerant
215735_PM_s_at	TSC2	tuberous sclerosis 2	0.00060	1.54	Normal up vs Off IS Tolerant
232160_PM_s_at	TNIP2	TNFAIP3 interacting protein 2	0.00060	1.26	Normal up vs Off IS Tolerant
228577_PM_x_at	ODF2L	outer dense fiber of sperm tails 2-like	0.00060	2.00	Normal up vs Off IS Tolerant
212709_PM_at	NUP160	nucleoporin 160kDa	0.00060	1.77	Normal up vs Off IS Tolerant
241779_PM_at	MTX3	metaxin 3	0.00060	1.31	Normal up vs Off IS Tolerant
214608_PM_s_at	EYA1	eyes absent homolog 1 (Drosophila)	0.00060	-1.48	Normal down vs Off IS Tolerant
1555884_PM_at	PSMD6	Proteasome (prosome, macropain) 26S subunit, non-ATPase, 6	0.00061	1.52	Normal up vs Off IS Tolerant
206894_PM_at	APOA4	apolipoprotein A-IV	0.00061	-1.25	Normal down vs Off IS Tolerant
219628_PM_at	ZMAT3	zinc finger, matrin-type 3	0.00061	1.60	Normal up vs Off IS Tolerant
1569554_PM_at	ESR2	Estrogen receptor 2 (ER beta)	0.00061	-1.52	Normal down vs Off IS Tolerant
36552_PM_at	C2CD3	C2 calcium-dependent domain containing 3	0.00061	1.33	Normal up vs Off IS Tolerant

242110_PM_at	---	---	0.00061	1.70	Normal up vs Off IS Tolerant
226389_PM_s_at	RAPGEF1	Rap guanine nucleotide exchange factor (GEF) 1	0.00061	1.44	Normal up vs Off IS Tolerant
209724_PM_s_at	ZFP161	zinc finger protein 161 homolog (mouse)	0.00061	1.45	Normal up vs Off IS Tolerant
223339_PM_at	ATPIF1	ATPase inhibitory factor 1	0.00061	1.74	Normal up vs Off IS Tolerant
244047_PM_at	---	---	0.00061	1.80	Normal up vs Off IS Tolerant
202253_PM_s_at	DNM2	dynamin 2	0.00061	1.30	Normal up vs Off IS Tolerant
221991_PM_at	NXPH3	neurexophilin 3	0.00062	-1.39	Normal down vs Off IS Tolerant
232114_PM_at	MED12L	mediator complex subunit 12-like	0.00062	-1.88	Normal down vs Off IS Tolerant
226327_PM_at	ZNF507	zinc finger protein 507	0.00062	1.80	Normal up vs Off IS Tolerant
244313_PM_at	CR1	complement component (3b/4b) receptor 1 (Knops blood group)	0.00062	-1.73	Normal down vs Off IS Tolerant
1566949_PM_at	---	---	0.00062	-1.50	Normal down vs Off IS Tolerant
205639_PM_at	AOAH	acyloxyacyl hydrolase (neutrophil)	0.00062	-1.44	Normal down vs Off IS Tolerant
1569112_PM_at	SLC44A5	solute carrier family 44, member 5	0.00062	-1.30	Normal down vs Off IS Tolerant
1561978_PM_at	LOC284798	hypothetical LOC284798	0.00062	-1.30	Normal down vs Off IS Tolerant
235227_PM_at	---	---	0.00062	1.54	Normal up vs Off IS Tolerant
213025_PM_at	THUMPD1	THUMP domain containing 1	0.00062	1.25	Normal up vs Off IS Tolerant
205108_PM_s_at	APOB	apolipoprotein B (including Ag(x) antigen)	0.00062	-1.41	Normal down vs Off IS Tolerant
208232_PM_x_at	---	---	0.00062	-1.33	Normal down vs Off IS Tolerant
222607_PM_s_at	DIS3	DIS3 mitotic control homolog (S. cerevisiae)	0.00062	1.70	Normal up vs Off IS Tolerant
1558794_PM_at	LOC728190	Hypothetical LOC728190	0.00062	-1.84	Normal down vs Off IS Tolerant
214623_PM_at	FBXW4P1	F-box and WD repeat domain containing 4 pseudogene 1	0.00063	1.52	Normal up vs Off IS Tolerant

205087_PM_at	RWDD3	RWD domain containing 3	0.00063	1.52	Normal up vs Off IS Tolerant
227216_PM_at	RLTPR	RGD motif, leucine rich repeats, tropomodulin domain and proline-rich containing	0.00063	1.34	Normal up vs Off IS Tolerant
235553_PM_at	GAPVD1	GTPase activating protein and VPS9 domains 1	0.00063	1.41	Normal up vs Off IS Tolerant
228423_PM_at	MAP9	microtubule-associated protein 9	0.00063	1.75	Normal up vs Off IS Tolerant
218422_PM_s_at	RBM26	RNA binding motif protein 26	0.00063	1.34	Normal up vs Off IS Tolerant
201401_PM_s_at	ADRBK1	adrenergic, beta, receptor kinase 1	0.00063	1.70	Normal up vs Off IS Tolerant
206888_PM_s_at	ARHGDI3	Rho GDP dissociation inhibitor (GDI) gamma	0.00063	-1.36	Normal down vs Off IS Tolerant
210849_PM_s_at	VPS41	vacuolar protein sorting 41 homolog (S. cerevisiae)	0.00063	-1.55	Normal down vs Off IS Tolerant
226873_PM_at	---	---	0.00064	1.76	Normal up vs Off IS Tolerant
230351_PM_at	LOC283481	hypothetical LOC283481	0.00064	-1.26	Normal down vs Off IS Tolerant
1554471_PM_a_at	ANKRD13C	ankyrin repeat domain 13C	0.00064	1.55	Normal up vs Off IS Tolerant
203104_PM_at	CSF1R	colony stimulating factor 1 receptor	0.00064	-1.57	Normal down vs Off IS Tolerant
224190_PM_x_at	NOD1	nucleotide-binding oligomerization domain containing 1	0.00064	1.39	Normal up vs Off IS Tolerant
201486_PM_at	RCN2	reticulocalbin 2, EF-hand calcium binding domain	0.00064	1.43	Normal up vs Off IS Tolerant
216177_PM_at	---	---	0.00065	1.42	Normal up vs Off IS Tolerant
230384_PM_at	---	---	0.00065	1.52	Normal up vs Off IS Tolerant
230445_PM_at	BTBD17	BTB (POZ) domain containing 17	0.00065	-1.23	Normal down vs Off IS Tolerant
241365_PM_at	SATB1	SATB homeobox 1	0.00065	2.16	Normal up vs Off IS Tolerant
221587_PM_s_at	C19orf24	chromosome 19 open reading frame 24	0.00065	1.43	Normal up vs Off IS Tolerant
209569_PM_x_at	D4S234E	DNA segment on chromosome 4 (unique) 234 expressed sequence	0.00065	1.83	Normal up vs Off IS Tolerant
207786_PM_at	CYP2R1	Cytochrome P450, family 2, subfamily R, polypeptide 1	0.00065	1.60	Normal up vs Off IS Tolerant

215190_PM_at	EIF3M	eukaryotic translation initiation factor 3, subunit M	0.00065	1.72	Normal up vs Off IS Tolerant
1552875_PM_a_at	CD200R1	CD200 receptor 1	0.00065	-1.48	Normal down vs Off IS Tolerant
212584_PM_at	AQR	aquarius homolog (mouse)	0.00065	1.37	Normal up vs Off IS Tolerant
234246_PM_at	---	---	0.00066	-1.31	Normal down vs Off IS Tolerant
214171_PM_s_at	U2AF2	U2 small nuclear RNA auxiliary factor 2	0.00066	-1.26	Normal down vs Off IS Tolerant
220423_PM_at	PLA2G2D	phospholipase A2, group IID	0.00066	-1.30	Normal down vs Off IS Tolerant
226245_PM_at	KCTD1	potassium channel tetramerisation domain containing 1	0.00066	-1.88	Normal down vs Off IS Tolerant
44696_PM_at	TBC1D13	TBC1 domain family, member 13	0.00066	1.23	Normal up vs Off IS Tolerant
235027_PM_at	---	---	0.00066	1.40	Normal up vs Off IS Tolerant
205429_PM_s_at	MPP6	membrane protein, palmitoylated 6 (MAGUK p55 subfamily member 6)	0.00066	1.41	Normal up vs Off IS Tolerant
212742_PM_at	RNF115	ring finger protein 115	0.00066	1.38	Normal up vs Off IS Tolerant
224918_PM_x_at	MGST1	microsomal glutathione S-transferase 1	0.00066	-1.83	Normal down vs Off IS Tolerant
226547_PM_at	MYST3	MYST histone acetyltransferase (monocytic leukemia) 3	0.00066	1.49	Normal up vs Off IS Tolerant
231817_PM_at	USP53	ubiquitin specific peptidase 53	0.00066	1.72	Normal up vs Off IS Tolerant
237025_PM_at	---	---	0.00066	1.32	Normal up vs Off IS Tolerant
33132_PM_at	CPSF1	cleavage and polyadenylation specific factor 1, 160kDa	0.00066	1.58	Normal up vs Off IS Tolerant
1554082_PM_a_at	NOL9	nucleolar protein 9	0.00066	1.58	Normal up vs Off IS Tolerant
230811_PM_at	C16orf55	chromosome 16 open reading frame 55	0.00067	1.55	Normal up vs Off IS Tolerant
241654_PM_at	---	---	0.00067	-2.83	Normal down vs Off IS Tolerant
237722_PM_at	FLI1	Friend leukemia virus integration 1	0.00067	-1.29	Normal down vs Off IS Tolerant
231918_PM_s_at	GFM2	G elongation factor, mitochondrial 2	0.00067	-1.42	Normal down vs Off IS Tolerant

240173_PM_at	---	---	0.00067	1.62	Normal up vs Off IS Tolerant
220940_PM_at	ANKRD36B	ankyrin repeat domain 36B	0.00067	1.65	Normal up vs Off IS Tolerant
228532_PM_at	C1orf162	chromosome 1 open reading frame 162	0.00067	-1.34	Normal down vs Off IS Tolerant
228611_PM_s_at	---	---	0.00067	1.54	Normal up vs Off IS Tolerant
226883_PM_at	---	---	0.00067	1.39	Normal up vs Off IS Tolerant
204995_PM_at	CDK5R1	cyclin-dependent kinase 5, regulatory subunit 1 (p35)	0.00067	2.18	Normal up vs Off IS Tolerant
40465_PM_at	DDX23	DEAD (Asp-Glu-Ala-Asp) box polypeptide 23	0.00067	1.49	Normal up vs Off IS Tolerant
225635_PM_s_at	LOC401504	hypothetical LOC401504	0.00067	1.64	Normal up vs Off IS Tolerant
234280_PM_at	REG3A	regenerating islet-derived 3 alpha	0.00068	-1.28	Normal down vs Off IS Tolerant
1567101_PM_at	---	---	0.00068	-1.45	Normal down vs Off IS Tolerant
200638_PM_s_at	YWHAZ	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptid	0.00068	1.33	Normal up vs Off IS Tolerant
1553348_PM_a_at	NFX1	nuclear transcription factor, X-box binding 1	0.00068	1.66	Normal up vs Off IS Tolerant
236653_PM_at	LOC148189	Hypothetical LOC148189	0.00068	-1.33	Normal down vs Off IS Tolerant
235882_PM_at	VPS53	vacuolar protein sorting 53 homolog (S. cerevisiae)	0.00068	1.96	Normal up vs Off IS Tolerant
32723_PM_at	CSTF1	cleavage stimulation factor, 3' pre-RNA, subunit 1, 50kDa	0.00068	1.26	Normal up vs Off IS Tolerant
46665_PM_at	SEMA4C	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic	0.00068	1.64	Normal up vs Off IS Tolerant
1558885_PM_at	---	---	0.00068	-1.27	Normal down vs Off IS Tolerant
1568939_PM_at	---	---	0.00068	-1.37	Normal down vs Off IS Tolerant
236839_PM_at	---	---	0.00069	1.39	Normal up vs Off IS Tolerant

227415_PM_at	LOC283508	hypothetical protein LOC283508	0.00069	1.68	Normal up vs Off IS Tolerant
235817_PM_at	TMEM184A	transmembrane protein 184A	0.00069	-1.49	Normal down vs Off IS Tolerant
204432_PM_at	SOX12	SRY (sex determining region Y)-box 12	0.00069	1.31	Normal up vs Off IS Tolerant
203899_PM_s_at	CRCP	CGRP receptor component	0.00069	-1.38	Normal down vs Off IS Tolerant
205830_PM_at	CLGN	calmegin	0.00069	-2.14	Normal down vs Off IS Tolerant
1562878_PM_at	---	---	0.00069	-1.33	Normal down vs Off IS Tolerant
223327_PM_x_at	LOC727751 /// LOC727849 /// LOC80154	hypothetical LOC727751 /// golgin A2 pseudogene /// hypothetical LOC80154	0.00069	1.38	Normal up vs Off IS Tolerant
1562572_PM_at	---	---	0.00069	1.26	Normal up vs Off IS Tolerant
214028_PM_x_at	TDRD3	tudor domain containing 3	0.00070	1.35	Normal up vs Off IS Tolerant
222164_PM_at	FGFR1	fibroblast growth factor receptor 1	0.00070	1.55	Normal up vs Off IS Tolerant
217003_PM_s_at	ADAM5P	ADAM metalloproteinase domain 5, pseudogene	0.00070	-1.42	Normal down vs Off IS Tolerant
240221_PM_at	---	---	0.00070	2.69	Normal up vs Off IS Tolerant
243718_PM_at	---	---	0.00070	-1.73	Normal down vs Off IS Tolerant
233184_PM_at	EPHA6	EPH receptor A6	0.00070	-1.94	Normal down vs Off IS Tolerant
234275_PM_at	---	---	0.00070	-1.27	Normal down vs Off IS Tolerant
1555972_PM_s_at	FBXO28	F-box protein 28	0.00070	-1.66	Normal down vs Off IS Tolerant
235135_PM_at	TAF10	TAF10 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 30kDa	0.00070	1.41	Normal up vs Off IS Tolerant
222539_PM_at	CLN6	ceroid-lipofuscinosis, neuronal 6, late infantile, variant	0.00070	-1.39	Normal down vs Off IS Tolerant
232247_PM_at	ZNF502	zinc finger protein 502	0.00070	1.82	Normal up vs Off IS Tolerant
204903_PM_x_at	ATG4B	ATG4 autophagy related 4 homolog B (S. cerevisiae)	0.00070	1.39	Normal up vs Off IS Tolerant

1558706_PM_a_at	ATOH8	Atonal homolog 8 (Drosophila)	0.00071	-1.23	Normal down vs Off IS Tolerant
1564474_PM_at	LOC728723	hypothetical LOC728723	0.00071	-1.35	Normal down vs Off IS Tolerant
215460_PM_x_at	BRD1	bromodomain containing 1	0.00071	1.66	Normal up vs Off IS Tolerant
1568924_PM_a_at	IQUB	IQ motif and ubiquitin domain containing	0.00071	-2.05	Normal down vs Off IS Tolerant
243423_PM_at	---	---	0.00071	1.85	Normal up vs Off IS Tolerant
218895_PM_at	GPATCH3	G patch domain containing 3	0.00071	1.53	Normal up vs Off IS Tolerant
1567242_PM_at	OR2L1P	olfactory receptor, family 2, subfamily L, member 1 pseudogene	0.00071	-1.30	Normal down vs Off IS Tolerant
202616_PM_s_at	MECP2	methyl CpG binding protein 2 (Rett syndrome)	0.00071	1.47	Normal up vs Off IS Tolerant
240867_PM_at	---	---	0.00071	1.58	Normal up vs Off IS Tolerant
221311_PM_x_at	LYRM2	LYR motif containing 2	0.00072	1.69	Normal up vs Off IS Tolerant
216554_PM_s_at	---	---	0.00072	-1.32	Normal down vs Off IS Tolerant
227836_PM_at	UTP23	UTP23, small subunit (SSU) processome component, homolog (yeast)	0.00072	1.52	Normal up vs Off IS Tolerant
228020_PM_at	PTCD3	Pentatricopeptide repeat domain 3	0.00072	1.67	Normal up vs Off IS Tolerant
214815_PM_at	TRIM33	tripartite motif-containing 33	0.00072	1.73	Normal up vs Off IS Tolerant
236538_PM_at	GRIA2	glutamate receptor, ionotropic, AMPA 2	0.00072	-1.33	Normal down vs Off IS Tolerant
224888_PM_at	EPT1	ethanolaminephosphotransferase 1 (CDP-ethanolamine-specific)	0.00072	1.46	Normal up vs Off IS Tolerant
210370_PM_s_at	LY9	lymphocyte antigen 9	0.00073	2.00	Normal up vs Off IS Tolerant
236664_PM_at	AKT2	v-akt murine thymoma viral oncogene homolog 2	0.00073	1.37	Normal up vs Off IS Tolerant
231838_PM_at	PABPC1L	poly(A) binding protein, cytoplasmic 1-like	0.00073	1.57	Normal up vs Off IS Tolerant
212946_PM_at	KIAA0564	KIAA0564	0.00073	1.52	Normal up vs Off IS Tolerant
1555352_PM_at	FOXP2	forkhead box P2	0.00073	-1.33	Normal down vs Off IS Tolerant

208029_PM_s_at	LAPTM4B	lysosomal protein transmembrane 4 beta	0.00073	1.50	Normal up vs Off IS Tolerant
41856_PM_at	UNC5B	unc-5 homolog B (C. elegans)	0.00073	-1.39	Normal down vs Off IS Tolerant
1554085_PM_at	DDX51	DEAD (Asp-Glu-Ala-Asp) box polypeptide 51	0.00074	1.70	Normal up vs Off IS Tolerant
212751_PM_at	UBE2N	ubiquitin-conjugating enzyme E2N (UBC13 homolog, yeast)	0.00074	1.44	Normal up vs Off IS Tolerant
234964_PM_at	TRD@	T cell receptor delta locus	0.00074	1.74	Normal up vs Off IS Tolerant
223304_PM_at	SLC37A3	solute carrier family 37 (glycerol-3-phosphate transporter), member 3	0.00074	1.79	Normal up vs Off IS Tolerant
202496_PM_at	EDC4	enhancer of mRNA decapping 4	0.00074	1.33	Normal up vs Off IS Tolerant
239799_PM_at	C9orf130	chromosome 9 open reading frame 130	0.00074	1.59	Normal up vs Off IS Tolerant
202739_PM_s_at	PHKB	phosphorylase kinase, beta	0.00074	1.58	Normal up vs Off IS Tolerant
203469_PM_s_at	CDK10	cyclin-dependent kinase 10	0.00074	1.42	Normal up vs Off IS Tolerant
1555836_PM_at	POLR2B	Polymerase (RNA) II (DNA directed) polypeptide B, 140kDa	0.00075	1.33	Normal up vs Off IS Tolerant
239958_PM_at	LOC253039	hypothetical LOC253039	0.00075	-1.31	Normal down vs Off IS Tolerant
1560901_PM_at	LOC728789	Hypothetical LOC728789	0.00075	-1.25	Normal down vs Off IS Tolerant
1554271_PM_a_at	CENPL	centromere protein L	0.00075	1.48	Normal up vs Off IS Tolerant
217804_PM_s_at	ILF3	interleukin enhancer binding factor 3, 90kDa	0.00075	1.31	Normal up vs Off IS Tolerant
218906_PM_x_at	KLC2	kinesin light chain 2	0.00075	1.29	Normal up vs Off IS Tolerant
218266_PM_s_at	NCS1	neuronal calcium sensor 1	0.00075	-1.58	Normal down vs Off IS Tolerant
214222_PM_at	DNAH7	dynein, axonemal, heavy chain 7	0.00075	-1.77	Normal down vs Off IS Tolerant
1553306_PM_at	CASP8	caspase 8, apoptosis-related cysteine peptidase	0.00075	-1.28	Normal down vs Off IS Tolerant
242194_PM_at	CUL4A	Cullin 4A	0.00076	1.46	Normal up vs Off IS Tolerant
225389_PM_at	BTBD6	BTB (POZ) domain containing 6	0.00076	1.26	Normal up vs Off IS Tolerant
222820_PM_at	TNRC6C	trinucleotide repeat containing 6C	0.00076	1.72	Normal up vs Off IS Tolerant

240106_PM_at	GNPTAB	N-acetylglucosamine-1-phosphate transferase, alpha and beta subunits	0.00076	-1.46	Normal down vs Off IS Tolerant
1561759_PM_at	LOC645513	Hypothetical LOC645513	0.00076	1.74	Normal up vs Off IS Tolerant
240102_PM_at	---	---	0.00076	1.83	Normal up vs Off IS Tolerant
204237_PM_at	GULP1	GULP, engulfment adaptor PTB domain containing 1	0.00076	-1.26	Normal down vs Off IS Tolerant
205486_PM_at	TESK2	testis-specific kinase 2	0.00076	1.43	Normal up vs Off IS Tolerant
205237_PM_at	FCN1	ficolin (collagen/fibrinogen domain containing) 1	0.00076	-1.43	Normal down vs Off IS Tolerant
208521_PM_at	OR5I1	olfactory receptor, family 5, subfamily I, member 1	0.00077	-1.59	Normal down vs Off IS Tolerant
1566602_PM_at	RPUSD3	RNA pseudouridylate synthase domain containing 3	0.00077	-1.26	Normal down vs Off IS Tolerant
218726_PM_at	HJURP	Holliday junction recognition protein	0.00077	-1.35	Normal down vs Off IS Tolerant
1553220_PM_at	FAM117B	family with sequence similarity 117, member B	0.00077	1.47	Normal up vs Off IS Tolerant
239324_PM_at	---	---	0.00077	1.43	Normal up vs Off IS Tolerant
221825_PM_at	ANGEL2	angel homolog 2 (Drosophila)	0.00077	1.47	Normal up vs Off IS Tolerant
203468_PM_at	CDK10	cyclin-dependent kinase 10	0.00077	1.54	Normal up vs Off IS Tolerant
1568971_PM_at	C14orf135	chromosome 14 open reading frame 135	0.00077	-2.01	Normal down vs Off IS Tolerant
242532_PM_at	---	---	0.00077	-1.27	Normal down vs Off IS Tolerant
1568834_PM_s_at	CCDC90B	coiled-coil domain containing 90B	0.00077	1.62	Normal up vs Off IS Tolerant
240017_PM_at	LOC400960	Hypothetical gene supported by BC040598	0.00077	-1.29	Normal down vs Off IS Tolerant
202890_PM_at	MAP7	microtubule-associated protein 7	0.00077	-1.55	Normal down vs Off IS Tolerant
232906_PM_at	---	---	0.00077	1.60	Normal up vs Off IS Tolerant
206488_PM_s_at	CD36	CD36 molecule (thrombospondin receptor)	0.00077	-1.60	Normal down vs Off IS Tolerant
204372_PM_s_at	KHSRP	KH-type splicing regulatory protein	0.00078	1.37	Normal up vs Off IS Tolerant
222630_PM_at	RFX7	regulatory factor X, 7	0.00078	1.33	Normal up vs Off IS Tolerant

209768_PM_s_at	GP1BB /// SEPT5	glycoprotein Ib (platelet), beta polypeptide /// septin 5	0.00079	-1.49	Normal down vs Off IS Tolerant
228849_PM_at	NTRK3	neurotrophic tyrosine kinase, receptor, type 3	0.00079	-1.60	Normal down vs Off IS Tolerant
206518_PM_s_at	RGS9	regulator of G-protein signaling 9	0.00079	1.30	Normal up vs Off IS Tolerant
211175_PM_at	GPR45	G protein-coupled receptor 45	0.00079	-1.24	Normal down vs Off IS Tolerant
218278_PM_at	WDR74	WD repeat domain 74	0.00079	1.33	Normal up vs Off IS Tolerant
41660_PM_at	CELSR1	cadherin, EGF LAG seven-pass G-type receptor 1 (flamingo homolog, Drosophila)	0.00080	1.52	Normal up vs Off IS Tolerant
213655_PM_at	YWHAE	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypep	0.00080	-1.49	Normal down vs Off IS Tolerant
234881_PM_at	---	---	0.00080	-1.35	Normal down vs Off IS Tolerant
213795_PM_s_at	PTPRA	protein tyrosine phosphatase, receptor type, A	0.00080	1.38	Normal up vs Off IS Tolerant
215203_PM_at	GOLGA4	golgin A4	0.00080	2.05	Normal up vs Off IS Tolerant
1569527_PM_at	---	---	0.00080	1.85	Normal up vs Off IS Tolerant
237695_PM_at	---	---	0.00080	-1.49	Normal down vs Off IS Tolerant
235987_PM_at	PRKXP1	protein kinase, X-linked, pseudogene 1	0.00080	2.27	Normal up vs Off IS Tolerant
227345_PM_at	TNFRSF10D	tumor necrosis factor receptor superfamily, member 10d, decoy with truncated death doma	0.00080	1.73	Normal up vs Off IS Tolerant
1557067_PM_s_at	LUC7L	LUC7-like (<i>S. cerevisiae</i>)	0.00080	1.85	Normal up vs Off IS Tolerant
226718_PM_at	AMIGO1	adhesion molecule with Ig-like domain 1	0.00081	1.83	Normal up vs Off IS Tolerant
202934_PM_at	HK2	hexokinase 2	0.00081	-1.68	Normal down vs Off IS Tolerant
242114_PM_at	LOC440354	PI-3-kinase-related kinase SMG-1 pseudogene	0.00081	-1.65	Normal down vs Off IS Tolerant
233959_PM_at	LOC221442	adenylate cyclase 10 pseudogene	0.00081	1.41	Normal up vs Off IS Tolerant

218754_PM_at	NOL9	nucleolar protein 9	0.00081	1.38	Normal up vs Off IS Tolerant
231280_PM_at	---	---	0.00081	-1.29	Normal down vs Off IS Tolerant
220803_PM_at	STAMBPL1	STAM binding protein-like 1	0.00081	1.35	Normal up vs Off IS Tolerant
200642_PM_at	SOD1	superoxide dismutase 1, soluble	0.00081	1.32	Normal up vs Off IS Tolerant
215873_PM_x_at	ABCC10	ATP-binding cassette, sub-family C (CFTR/MRP), member 10	0.00082	1.45	Normal up vs Off IS Tolerant
214790_PM_at	SENP6	SUMO1/sentrin specific peptidase 6	0.00082	1.72	Normal up vs Off IS Tolerant
236102_PM_at	LOC100126784	Hypothetical LOC100126784	0.00082	-1.25	Normal down vs Off IS Tolerant
243029_PM_at	KREMEN1	kringle containing transmembrane protein 1	0.00082	-1.43	Normal down vs Off IS Tolerant
213335_PM_s_at	ST3GAL6	ST3 beta-galactoside alpha-2,3-sialyltransferase 6	0.00082	-1.34	Normal down vs Off IS Tolerant
219342_PM_at	CASD1	CAS1 domain containing 1	0.00082	1.56	Normal up vs Off IS Tolerant
214833_PM_at	TMEM63A	transmembrane protein 63A	0.00082	1.90	Normal up vs Off IS Tolerant
213245_PM_at	ADCY1	adenylate cyclase 1 (brain)	0.00082	-1.25	Normal down vs Off IS Tolerant
201225_PM_s_at	SRRM1	serine/arginine repetitive matrix 1	0.00082	1.13	Normal up vs Off IS Tolerant
213030_PM_s_at	PLXNA2	plexin A2	0.00082	-1.27	Normal down vs Off IS Tolerant
234100_PM_at	---	---	0.00082	-1.88	Normal down vs Off IS Tolerant
223255_PM_at	G2E3	G2/M-phase specific E3 ubiquitin protein ligase	0.00082	1.49	Normal up vs Off IS Tolerant
243315_PM_at	---	---	0.00082	1.70	Normal up vs Off IS Tolerant
228045_PM_at	---	---	0.00082	1.92	Normal up vs Off IS Tolerant
201463_PM_s_at	TALDO1	transaldolase 1	0.00082	-1.34	Normal down vs Off IS Tolerant
221607_PM_x_at	ACTG1	actin, gamma 1	0.00082	-1.12	Normal down vs Off IS Tolerant
1554240_PM_a_at	ITGAL	integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; alph	0.00082	1.33	Normal up vs Off IS Tolerant

224953_PM_at	YIPF5	Yip1 domain family, member 5	0.00083	-1.68	Normal down vs Off IS Tolerant
208540_PM_x_at	S100A11	S100 calcium binding protein A11	0.00083	-1.47	Normal down vs Off IS Tolerant
218687_PM_s_at	MUC13	mucin 13, cell surface associated	0.00083	-1.26	Normal down vs Off IS Tolerant
243757_PM_at	---	---	0.00083	1.77	Normal up vs Off IS Tolerant
213500_PM_at	---	---	0.00083	-1.51	Normal down vs Off IS Tolerant
37652_PM_at	CABIN1	calcineurin binding protein 1	0.00083	1.30	Normal up vs Off IS Tolerant
204156_PM_at	SIK3	SIK family kinase 3	0.00083	1.66	Normal up vs Off IS Tolerant
217716_PM_s_at	SEC61A1	Sec61 alpha 1 subunit (<i>S. cerevisiae</i>)	0.00083	-1.25	Normal down vs Off IS Tolerant
1557073_PM_s_at	TTBK2	Tau tubulin kinase 2	0.00084	1.56	Normal up vs Off IS Tolerant
1559144_PM_x_at	LOC100130581	hypothetical LOC100130581	0.00084	-1.27	Normal down vs Off IS Tolerant
226776_PM_at	ENY2	enhancer of yellow 2 homolog (<i>Drosophila</i>)	0.00084	1.72	Normal up vs Off IS Tolerant
201743_PM_at	CD14	CD14 molecule	0.00084	-1.47	Normal down vs Off IS Tolerant
217641_PM_at	GPR135	G protein-coupled receptor 135	0.00084	-1.31	Normal down vs Off IS Tolerant
234295_PM_at	DBR1	debranching enzyme homolog 1 (<i>S. cerevisiae</i>)	0.00084	1.68	Normal up vs Off IS Tolerant
204092_PM_s_at	AURKA	aurora kinase A	0.00084	-1.35	Normal down vs Off IS Tolerant
213959_PM_s_at	RPGRIP1L	RPGRIP1-like	0.00084	-1.25	Normal down vs Off IS Tolerant
227970_PM_at	GPR157	G protein-coupled receptor 157	0.00084	1.47	Normal up vs Off IS Tolerant
37117_PM_at	ARHGAP8 /// PRR5- ARHGAP8	Rho GTPase activating protein 8 /// PRR5- ARHGAP8 readthrough	0.00084	1.41	Normal up vs Off IS Tolerant
221483_PM_s_at	ARPP19	cAMP-regulated phosphoprotein, 19kDa	0.00085	1.21	Normal up vs Off IS Tolerant
233850_PM_s_at	EBF4	early B-cell factor 4	0.00085	1.28	Normal up vs Off IS Tolerant

227485_PM_at	DDX26B	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 26B	0.00085	1.52	Normal up vs Off IS Tolerant
226340_PM_x_at	WASH3P	WAS protein family homolog 3 pseudogene	0.00085	1.36	Normal up vs Off IS Tolerant
227517_PM_s_at	GAS5	growth arrest-specific 5 (non-protein coding)	0.00085	1.53	Normal up vs Off IS Tolerant
212549_PM_at	STAT5B	signal transducer and activator of transcription 5B	0.00085	1.30	Normal up vs Off IS Tolerant
1552623_PM_at	HSH2D	hematopoietic SH2 domain containing	0.00085	1.73	Normal up vs Off IS Tolerant
242598_PM_at	---	---	0.00085	-2.00	Normal down vs Off IS Tolerant
204646_PM_at	DPYD	dihydropyrimidine dehydrogenase	0.00085	-1.43	Normal down vs Off IS Tolerant
239666_PM_at	PYGO2	Pygopus homolog 2 (Drosophila)	0.00085	-1.34	Normal down vs Off IS Tolerant
223730_PM_at	GPC6	glypican 6	0.00086	-1.50	Normal down vs Off IS Tolerant
210653_PM_s_at	BCKDHB	branched chain keto acid dehydrogenase E1, beta polypeptide	0.00086	1.68	Normal up vs Off IS Tolerant
231373_PM_at	RNF133	ring finger protein 133	0.00086	-1.57	Normal down vs Off IS Tolerant
222310_PM_at	SFRS15	splicing factor, arginine/serine-rich 15	0.00086	1.51	Normal up vs Off IS Tolerant
238142_PM_at	---	---	0.00086	1.61	Normal up vs Off IS Tolerant
240234_PM_at	---	---	0.00086	1.47	Normal up vs Off IS Tolerant
210203_PM_at	CNOT4	CCR4-NOT transcription complex, subunit 4	0.00087	1.70	Normal up vs Off IS Tolerant
224517_PM_at	POLR2J4	polymerase (RNA) II (DNA directed) polypeptide J4, pseudogene	0.00087	1.70	Normal up vs Off IS Tolerant
202588_PM_at	AK1	adenylate kinase 1	0.00087	1.44	Normal up vs Off IS Tolerant
230281_PM_at	C16orf46	chromosome 16 open reading frame 46	0.00087	-1.41	Normal down vs Off IS Tolerant
226065_PM_at	PRICKLE1	prickle homolog 1 (Drosophila)	0.00087	-1.94	Normal down vs Off IS Tolerant
211168_PM_s_at	UPF1	UPF1 regulator of nonsense transcripts homolog (yeast)	0.00087	1.32	Normal up vs Off IS Tolerant

227790_PM_at	UBE2CBP	ubiquitin-conjugating enzyme E2C binding protein	0.00087	1.32	Normal up vs Off IS Tolerant
227443_PM_at	C9orf150	chromosome 9 open reading frame 150	0.00087	-1.75	Normal down vs Off IS Tolerant
1552528_PM_at	C21orf67	chromosome 21 open reading frame 67	0.00087	-1.25	Normal down vs Off IS Tolerant
236267_PM_at	ZNF346	zinc finger protein 346	0.00088	1.54	Normal up vs Off IS Tolerant
202164_PM_s_at	CNOT8	CCR4-NOT transcription complex, subunit 8	0.00088	1.35	Normal up vs Off IS Tolerant
212789_PM_at	NCAPD3	non-SMC condensin II complex, subunit D3	0.00088	1.47	Normal up vs Off IS Tolerant
212334_PM_at	GNS	glucosamine (N-acetyl)-6-sulfatase	0.00088	-1.32	Normal down vs Off IS Tolerant
205514_PM_at	ZNF415	zinc finger protein 415	0.00088	1.29	Normal up vs Off IS Tolerant
235448_PM_at	ZXDC	ZXD family zinc finger C	0.00088	1.45	Normal up vs Off IS Tolerant
203543_PM_s_at	KLF9	Kruppel-like factor 9	0.00088	2.17	Normal up vs Off IS Tolerant
235974_PM_at	---	---	0.00088	1.61	Normal up vs Off IS Tolerant
242129_PM_at	SIN3B	SIN3 homolog B, transcription regulator (yeast)	0.00088	-1.27	Normal down vs Off IS Tolerant
237056_PM_at	INSC	inscuteable homolog (Drosophila)	0.00088	-1.53	Normal down vs Off IS Tolerant
230102_PM_at	ETV5	Ets variant 5	0.00088	-1.44	Normal down vs Off IS Tolerant
204283_PM_at	FARS2	phenylalanyl-tRNA synthetase 2, mitochondrial	0.00089	1.95	Normal up vs Off IS Tolerant
1560767_PM_at	HCG22	HLA complex group 22	0.00089	-1.39	Normal down vs Off IS Tolerant
228544_PM_s_at	CSRP2BP /// PET117	CSRP2 binding protein /// cytochrome c oxidase assembly factor-like	0.00089	1.55	Normal up vs Off IS Tolerant
209297_PM_at	ITSN1	intersectin 1 (SH3 domain protein)	0.00089	-1.50	Normal down vs Off IS Tolerant
226527_PM_at	RPRD2	regulation of nuclear pre-mRNA domain containing 2	0.00089	1.59	Normal up vs Off IS Tolerant
227682_PM_at	---	---	0.00089	1.74	Normal up vs Off IS Tolerant

227988_PM_s_at	VPS13A	vacuolar protein sorting 13 homolog A (S. cerevisiae)	0.00090	1.86	Normal up vs Off IS Tolerant
235126_PM_at	NCRNA00292	non-protein coding RNA 292	0.00090	-2.03	Normal down vs Off IS Tolerant
225550_PM_at	CNST	consortin, connexin sorting protein	0.00090	1.77	Normal up vs Off IS Tolerant
224308_PM_s_at	INTS2	integrator complex subunit 2	0.00090	1.55	Normal up vs Off IS Tolerant
209417_PM_s_at	IFI35	interferon-induced protein 35	0.00090	-1.53	Normal down vs Off IS Tolerant
220748_PM_s_at	ZNF580	zinc finger protein 580	0.00090	1.49	Normal up vs Off IS Tolerant
233726_PM_at	---	---	0.00090	-1.26	Normal down vs Off IS Tolerant
235429_PM_at	---	---	0.00090	1.56	Normal up vs Off IS Tolerant
203452_PM_at	B3GAT3	beta-1,3-glucuronyltransferase 3 (glucuronosyltransferase I)	0.00090	1.37	Normal up vs Off IS Tolerant
242002_PM_at	NKAIN2	Na+/K+ transporting ATPase interacting 2	0.00090	-1.50	Normal down vs Off IS Tolerant
238405_PM_at	---	---	0.00090	-1.31	Normal down vs Off IS Tolerant
1559995_PM_at	SAMD14	Sterile alpha motif domain containing 14	0.00090	-1.43	Normal down vs Off IS Tolerant
1560648_PM_s_at	TSPYL1	TSPY-like 1	0.00090	1.42	Normal up vs Off IS Tolerant
231847_PM_at	ANKRD54	ankyrin repeat domain 54	0.00090	1.48	Normal up vs Off IS Tolerant
233079_PM_at	---	---	0.00090	-1.29	Normal down vs Off IS Tolerant
240184_PM_at	---	---	0.00090	-1.61	Normal down vs Off IS Tolerant
1561251_PM_at	LOC285577	hypothetical LOC285577	0.00091	-1.30	Normal down vs Off IS Tolerant
233400_PM_at	---	---	0.00091	1.76	Normal up vs Off IS Tolerant
218579_PM_s_at	DHX35	DEAH (Asp-Glu-Ala-His) box polypeptide 35	0.00091	1.29	Normal up vs Off IS Tolerant
227178_PM_at	CELF2	CUGBP, Elav-like family member 2	0.00091	1.35	Normal up vs Off IS Tolerant
227615_PM_at	---	---	0.00091	1.62	Normal up vs Off IS Tolerant
210971_PM_s_at	ARNTL	aryl hydrocarbon receptor nuclear translocator-like	0.00091	1.84	Normal up vs Off IS Tolerant

201895_PM_at	ARAF	v-raf murine sarcoma 3611 viral oncogene homolog	0.00091	1.31	Normal up vs Off IS Tolerant
226369_PM_at	LOC338799	hypothetical LOC338799	0.00091	1.58	Normal up vs Off IS Tolerant
242010_PM_at	LOC728475	Hypothetical LOC728475	0.00092	-1.28	Normal down vs Off IS Tolerant
223072_PM_s_at	INO80B /// WBP1	INO80 complex subunit B /// WW domain binding protein 1	0.00092	1.44	Normal up vs Off IS Tolerant
212591_PM_at	ARID4B /// RBM34	AT rich interactive domain 4B (RBP1-like) /// RNA binding motif protein 34	0.00092	1.26	Normal up vs Off IS Tolerant
219349_PM_s_at	EXOC2	exocyst complex component 2	0.00093	1.65	Normal up vs Off IS Tolerant
240697_PM_at	---	---	0.00093	-1.32	Normal down vs Off IS Tolerant
230141_PM_at	ARID4A	AT rich interactive domain 4A (RBP1-like)	0.00093	1.65	Normal up vs Off IS Tolerant
204659_PM_s_at	GFER	growth factor, augments liver regeneration	0.00093	1.51	Normal up vs Off IS Tolerant
238604_PM_at	---	---	0.00093	1.45	Normal up vs Off IS Tolerant
209961_PM_s_at	HGF	hepatocyte growth factor (hepatopoietin A; scatter factor)	0.00093	-1.39	Normal down vs Off IS Tolerant
214125_PM_s_at	NENF	Neuron derived neurotrophic factor	0.00093	-1.30	Normal down vs Off IS Tolerant
200639_PM_s_at	YWHAZ	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptid	0.00093	1.19	Normal up vs Off IS Tolerant
200867_PM_at	RNF114	ring finger protein 114	0.00093	1.40	Normal up vs Off IS Tolerant
201831_PM_s_at	USO1	USO1 vesicle docking protein homolog (yeast)	0.00094	-1.68	Normal down vs Off IS Tolerant
219548_PM_at	ZNF16	zinc finger protein 16	0.00094	1.39	Normal up vs Off IS Tolerant
230741_PM_at	---	---	0.00094	-1.53	Normal down vs Off IS Tolerant
243745_PM_at	---	---	0.00094	-1.76	Normal down vs Off IS Tolerant
218890_PM_x_at	MRPL35	mitochondrial ribosomal protein L35	0.00094	-1.37	Normal down vs Off IS Tolerant

1570505_PM_at	ABCB4	ATP-binding cassette, sub-family B (MDR/TAP), member 4	0.00094	-1.91	Normal down vs Off IS Tolerant
212577_PM_at	SMCHD1	structural maintenance of chromosomes flexible hinge domain containing 1	0.00094	1.40	Normal up vs Off IS Tolerant
219996_PM_at	ASB7	ankyrin repeat and SOCS box-containing 7	0.00094	1.41	Normal up vs Off IS Tolerant
222080_PM_s_at	SIRT5	Sirtuin (silent mating type information regulation 2 homolog) 5 (<i>S. cerevisiae</i>)	0.00094	-1.32	Normal down vs Off IS Tolerant
244743_PM_x_at	ZNF138	zinc finger protein 138	0.00094	1.49	Normal up vs Off IS Tolerant
204732_PM_s_at	TRIM23	tripartite motif-containing 23	0.00095	1.60	Normal up vs Off IS Tolerant
1568646_PM_x_at	ZNF208	zinc finger protein 208	0.00095	-1.78	Normal down vs Off IS Tolerant
235461_PM_at	TET2	tet oncogene family member 2	0.00095	-1.86	Normal down vs Off IS Tolerant
225992_PM_at	MLLT10	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, <i>Drosophila</i>); translocate	0.00095	1.30	Normal up vs Off IS Tolerant
235782_PM_at	---	---	0.00095	1.79	Normal up vs Off IS Tolerant
218674_PM_at	C5orf44	chromosome 5 open reading frame 44	0.00095	1.84	Normal up vs Off IS Tolerant
1554418_PM_s_at	SPOCK3	sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 3	0.00095	-1.92	Normal down vs Off IS Tolerant
206881_PM_s_at	LILRA3	leukocyte immunoglobulin-like receptor, subfamily A (without TM domain), member 3	0.00095	-2.62	Normal down vs Off IS Tolerant
209028_PM_s_at	ABI1	abl-interactor 1	0.00095	1.24	Normal up vs Off IS Tolerant
215026_PM_x_at	SCNN1A	sodium channel, nonvoltage-gated 1 alpha	0.00095	-1.44	Normal down vs Off IS Tolerant
234738_PM_s_at	LOC100129637	hypothetical LOC100129637	0.00095	1.84	Normal up vs Off IS Tolerant
241825_PM_at	C2orf60	chromosome 2 open reading frame 60	0.00095	1.38	Normal up vs Off IS Tolerant
224321_PM_at	TMEFF2	transmembrane protein with EGF-like and two follistatin-like domains 2	0.00095	-2.87	Normal down vs Off IS Tolerant
239325_PM_at	LOC729723	hypothetical LOC729723	0.00095	-1.26	Normal down vs Off IS Tolerant

1560014_PM_s_at	PDXDC1	pyridoxal-dependent decarboxylase domain containing 1	0.00095	1.84	Normal up vs Off IS Tolerant
223771_PM_at	TMEM87A	Transmembrane protein 87A	0.00096	1.75	Normal up vs Off IS Tolerant
209152_PM_s_at	TCF3	transcription factor 3 (E2A immunoglobulin enhancer binding factors E12/E47)	0.00096	1.63	Normal up vs Off IS Tolerant
1566955_PM_at	---	---	0.00096	-1.26	Normal down vs Off IS Tolerant
1555350_PM_at	PPHLN1	periphilin 1	0.00096	1.31	Normal up vs Off IS Tolerant
234232_PM_at	---	---	0.00096	-1.40	Normal down vs Off IS Tolerant
218289_PM_s_at	UBA5	ubiquitin-like modifier activating enzyme 5	0.00096	1.72	Normal up vs Off IS Tolerant
223644_PM_s_at	CRYGS	crystallin, gamma S	0.00096	1.61	Normal up vs Off IS Tolerant
204618_PM_s_at	GABPB1	GA binding protein transcription factor, beta subunit 1	0.00096	1.47	Normal up vs Off IS Tolerant
1556469_PM_s_at	---	---	0.00096	-1.26	Normal down vs Off IS Tolerant
1565811_PM_at	---	---	0.00096	-1.52	Normal down vs Off IS Tolerant
234997_PM_x_at	---	---	0.00097	1.55	Normal up vs Off IS Tolerant
237735_PM_at	---	---	0.00097	-1.25	Normal down vs Off IS Tolerant
203341_PM_at	CEBPZ	CCAAT/enhancer binding protein (C/EBP), zeta	0.00097	1.41	Normal up vs Off IS Tolerant
227789_PM_at	MRS2	MRS2 magnesium homeostasis factor homolog (<i>S. cerevisiae</i>)	0.00097	1.29	Normal up vs Off IS Tolerant
205047_PM_s_at	ASNS	asparagine synthetase (glutamine-hydrolyzing)	0.00097	1.69	Normal up vs Off IS Tolerant
1556803_PM_at	POLR3B	polymerase (RNA) III (DNA directed) polypeptide B	0.00097	-1.27	Normal down vs Off IS Tolerant
236132_PM_at	TLN1	talin 1	0.00097	1.93	Normal up vs Off IS Tolerant
224712_PM_x_at	C19orf42	chromosome 19 open reading frame 42	0.00097	1.44	Normal up vs Off IS Tolerant

237351_PM_at	---	---	0.00097	-1.29	Normal down vs Off IS Tolerant
224561_PM_s_at	MORF4L1	mortality factor 4 like 1	0.00098	1.25	Normal up vs Off IS Tolerant
206501_PM_x_at	ETV1	ets variant 1	0.00098	-2.14	Normal down vs Off IS Tolerant
227319_PM_at	KLHL36	kelch-like 36 (Drosophila)	0.00098	1.53	Normal up vs Off IS Tolerant
1555801_PM_s_at	ZNF385B	zinc finger protein 385B	0.00098	-1.29	Normal down vs Off IS Tolerant
230452_PM_at	FLJ42351	hypothetical LOC400999	0.00098	1.50	Normal up vs Off IS Tolerant
221535_PM_at	LSG1	large subunit GTPase 1 homolog (S. cerevisiae)	0.00098	1.54	Normal up vs Off IS Tolerant
238760_PM_at	YARS	tyrosyl-tRNA synthetase	0.00098	1.44	Normal up vs Off IS Tolerant
223113_PM_at	TMEM138	transmembrane protein 138	0.00099	1.23	Normal up vs Off IS Tolerant
1555408_PM_at	BAGE2 /// BAGE4	B melanoma antigen family, member 2 /// B melanoma antigen family, member 4	0.00099	-1.54	Normal down vs Off IS Tolerant
242428_PM_at	DCUN1D1	DCN1, defective in cullin neddylation 1, domain containing 1 (S. cerevisiae)	0.00099	1.67	Normal up vs Off IS Tolerant
225356_PM_at	---	---	0.00099	1.19	Normal up vs Off IS Tolerant
240327_PM_at	---	---	0.00099	1.51	Normal up vs Off IS Tolerant
235450_PM_at	FBXL4	F-box and leucine-rich repeat protein 4	0.00100	1.73	Normal up vs Off IS Tolerant
239038_PM_at	C1orf52	chromosome 1 open reading frame 52	0.00100	1.49	Normal up vs Off IS Tolerant
204057_PM_at	IRF8	interferon regulatory factor 8	0.00100	-1.23	Normal down vs Off IS Tolerant
240454_PM_at	---	---	0.00100	-1.29	Normal down vs Off IS Tolerant
209030_PM_s_at	CADM1	cell adhesion molecule 1	0.00100	1.55	Normal up vs Off IS Tolerant
1558438_PM_a_at	IGHA1	Immunoglobulin heavy constant alpha 1	0.00100	1.39	Normal up vs Off IS Tolerant
1566833_PM_x_at	TOP1P2	topoisomerase (DNA) I pseudogene 2	0.00100	-1.23	Normal down vs Off IS Tolerant
223494_PM_at	MGEA5	meningioma expressed antigen 5 (hyaluronidase)	0.00100	1.36	Normal up vs Off IS Tolerant
1554470_PM_s_at	ZBTB44	zinc finger and BTB domain containing 44	0.00100	1.48	Normal up vs Off IS Tolerant

1554697_PM_at	ADAMTS9	ADAM metalloproteinase with thrombospondin type 1 motif, 9	0.00101	-1.29	Normal down vs Off IS Tolerant
1557348_PM_at	---	---	0.00101	-1.89	Normal down vs Off IS Tolerant
200975_PM_at	PPT1	palmitoyl-protein thioesterase 1	0.00101	-1.37	Normal down vs Off IS Tolerant
242247_PM_at	METT5D1	methyltransferase 5 domain containing 1	0.00101	1.28	Normal up vs Off IS Tolerant
212628_PM_at	PKN2	protein kinase N2	0.00101	1.39	Normal up vs Off IS Tolerant
1561190_PM_at	CDKL3	cyclin-dependent kinase-like 3	0.00101	1.41	Normal up vs Off IS Tolerant
229595_PM_at	CHCHD4	coiled-coil-helix-coiled-coil-helix domain containing 4	0.00101	-1.47	Normal down vs Off IS Tolerant
228817_PM_at	ALG9	asparagine-linked glycosylation 9, alpha-1,2-mannosyltransferase homolog (S. cerevisiae)	0.00101	1.48	Normal up vs Off IS Tolerant
1569040_PM_s_at	ANKRD36BP2	ankyrin repeat domain 36B pseudogene 2	0.00101	1.85	Normal up vs Off IS Tolerant
240581_PM_at	---	---	0.00102	1.24	Normal up vs Off IS Tolerant
207256_PM_at	MBL2	mannose-binding lectin (protein C) 2, soluble (opsonic defect)	0.00102	-1.44	Normal down vs Off IS Tolerant
212273_PM_x_at	GNAS	GNAS complex locus	0.00102	1.20	Normal up vs Off IS Tolerant
204764_PM_at	FNTB	farnesyltransferase, CAAX box, beta	0.00102	1.40	Normal up vs Off IS Tolerant
209810_PM_at	SFTPB	surfactant protein B	0.00102	-1.24	Normal down vs Off IS Tolerant
41512_PM_at	BRAP	BRCA1 associated protein	0.00102	1.52	Normal up vs Off IS Tolerant
244724_PM_at	---	---	0.00102	-1.32	Normal down vs Off IS Tolerant
239359_PM_at	11-Mar	membrane-associated ring finger (C3HC4) 11	0.00103	-1.34	Normal down vs Off IS Tolerant
241389_PM_at	CHRN2	cholinergic receptor, nicotinic, beta 2 (neuronal)	0.00103	-1.40	Normal down vs Off IS Tolerant
1556102_PM_x_at	LOC389906 /// LOC441528 /// LOC729162	hypothetical LOC389906 /// hypothetical LOC441528 /// hypothetical protein LOC729162	0.00103	1.51	Normal up vs Off IS Tolerant

46256_PM_at	SPSB3	splA/ryanodine receptor domain and SOCS box containing 3	0.00103	1.24	Normal up vs Off IS Tolerant
233894_PM_x_at	EMID2	EMI domain containing 2	0.00103	-1.34	Normal down vs Off IS Tolerant
1554110_PM_at	CDCP1	CUB domain containing protein 1	0.00103	-1.37	Normal down vs Off IS Tolerant
1557875_PM_at	---	---	0.00103	-1.41	Normal down vs Off IS Tolerant
214698_PM_at	ROD1	ROD1 regulator of differentiation 1 (S. pombe)	0.00103	-1.28	Normal down vs Off IS Tolerant
205955_PM_at	---	---	0.00103	1.41	Normal up vs Off IS Tolerant
224585_PM_x_at	ACTG1	actin, gamma 1	0.00103	-1.12	Normal down vs Off IS Tolerant
1557865_PM_at	---	---	0.00103	-1.38	Normal down vs Off IS Tolerant
229323_PM_at	LOC387723	hypothetical LOC387723	0.00103	1.70	Normal up vs Off IS Tolerant
244031_PM_at	---	---	0.00103	1.74	Normal up vs Off IS Tolerant
207861_PM_at	CCL22	chemokine (C-C motif) ligand 22	0.00103	-1.26	Normal down vs Off IS Tolerant
1558185_PM_at	CLLU1	chronic lymphocytic leukemia up-regulated 1	0.00104	-1.88	Normal down vs Off IS Tolerant
1554872_PM_a_at	HMGCLL1	3-hydroxymethyl-3-methylglutaryl-CoA lyase-like 1	0.00104	-1.36	Normal down vs Off IS Tolerant
208984_PM_x_at	RBM10	RNA binding motif protein 10	0.00104	1.24	Normal up vs Off IS Tolerant
215534_PM_at	---	---	0.00104	-1.21	Normal down vs Off IS Tolerant
206166_PM_s_at	CLCA2	chloride channel accessory 2	0.00104	-1.37	Normal down vs Off IS Tolerant
234645_PM_at	---	---	0.00104	1.96	Normal up vs Off IS Tolerant
237457_PM_at	EIF3B	eukaryotic translation initiation factor 3, subunit B	0.00104	-1.36	Normal down vs Off IS Tolerant
1552266_PM_at	ADAM32	ADAM metallopeptidase domain 32	0.00104	-1.26	Normal down vs Off IS Tolerant
239487_PM_at	FAM98A	Family with sequence similarity 98, member A	0.00104	1.47	Normal up vs Off IS Tolerant

206008_PM_at	TGM1	transglutaminase 1 (K polypeptide epidermal type I, protein-glutamine-gamma-glutamyltra	0.00105	-1.21	Normal down vs Off IS Tolerant
226223_PM_at	---	---	0.00105	-2.20	Normal down vs Off IS Tolerant
243951_PM_at	ABCB1	ATP-binding cassette, sub-family B (MDR/TAP), member 1	0.00105	1.74	Normal up vs Off IS Tolerant
241888_PM_at	---	---	0.00105	1.32	Normal up vs Off IS Tolerant
200797_PM_s_at	MCL1	myeloid cell leukemia sequence 1 (BCL2-related)	0.00106	-1.29	Normal down vs Off IS Tolerant
204359_PM_at	FLRT2	fibronectin leucine rich transmembrane protein 2	0.00106	-1.34	Normal down vs Off IS Tolerant
219512_PM_at	DSN1	DSN1, MIND kinetochore complex component, homolog (<i>S. cerevisiae</i>)	0.00106	1.37	Normal up vs Off IS Tolerant
203331_PM_s_at	INPP5D	inositol polyphosphate-5-phosphatase, 145kDa	0.00106	1.37	Normal up vs Off IS Tolerant
242669_PM_at	UFM1	Ubiquitin-fold modifier 1	0.00106	1.75	Normal up vs Off IS Tolerant
212046_PM_x_at	MAPK3	mitogen-activated protein kinase 3	0.00106	-1.48	Normal down vs Off IS Tolerant
213976_PM_at	CIZ1	CDKN1A interacting zinc finger protein 1	0.00106	-1.29	Normal down vs Off IS Tolerant
1556613_PM_s_at	DPY19L4	dpy-19-like 4 (<i>C. elegans</i>)	0.00106	1.49	Normal up vs Off IS Tolerant
229230_PM_at	OSTalpha	organic solute transporter alpha	0.00106	-1.26	Normal down vs Off IS Tolerant
214256_PM_at	ATP10A	ATPase, class V, type 10A	0.00107	-1.39	Normal down vs Off IS Tolerant
217347_PM_at	---	---	0.00107	1.27	Normal up vs Off IS Tolerant
230273_PM_at	C6orf165	chromosome 6 open reading frame 165	0.00107	-1.41	Normal down vs Off IS Tolerant
206572_PM_x_at	ZNF85	zinc finger protein 85	0.00107	1.42	Normal up vs Off IS Tolerant
1553380_PM_at	PARP15	poly (ADP-ribose) polymerase family, member 15	0.00107	1.57	Normal up vs Off IS Tolerant
212566_PM_at	MAP4	microtubule-associated protein 4	0.00107	1.37	Normal up vs Off IS Tolerant
223175_PM_s_at	FEM1A	fem-1 homolog a (<i>C. elegans</i>)	0.00107	1.40	Normal up vs Off IS Tolerant
237470_PM_at	DOCK7	dedicator of cytokinesis 7	0.00108	1.40	Normal up vs Off IS Tolerant

207009_PM_at	PHOX2B	paired-like homeobox 2b	0.00108	-1.46	Normal down vs Off IS Tolerant
216867_PM_s_at	PDGFA	platelet-derived growth factor alpha polypeptide	0.00108	1.91	Normal up vs Off IS Tolerant
208242_PM_at	RAX	retina and anterior neural fold homeobox	0.00108	-1.28	Normal down vs Off IS Tolerant
1559154_PM_at	---	---	0.00108	1.57	Normal up vs Off IS Tolerant
1555559_PM_s_at	USP25	ubiquitin specific peptidase 25	0.00108	-1.37	Normal down vs Off IS Tolerant
244380_PM_at	---	---	0.00108	-1.20	Normal down vs Off IS Tolerant
238071_PM_at	LCN10 /// LCN6	lipocalin 10 /// lipocalin 6	0.00108	-1.54	Normal down vs Off IS Tolerant
222831_PM_at	SAP30L	SAP30-like	0.00108	-1.76	Normal down vs Off IS Tolerant
33760_PM_at	PEX14	peroxisomal biogenesis factor 14	0.00108	1.35	Normal up vs Off IS Tolerant
223450_PM_s_at	COG3	component of oligomeric golgi complex 3	0.00108	1.32	Normal up vs Off IS Tolerant
225406_PM_at	TWSG1	twisted gastrulation homolog 1 (Drosophila)	0.00108	1.40	Normal up vs Off IS Tolerant
227087_PM_at	INPP4A	inositol polyphosphate-4-phosphatase, type I, 107kDa	0.00109	1.37	Normal up vs Off IS Tolerant
243468_PM_at	PATE1	prostate and testis expressed 1	0.00109	-1.45	Normal down vs Off IS Tolerant
216345_PM_at	KIAA0913	KIAA0913	0.00109	-1.43	Normal down vs Off IS Tolerant
219408_PM_at	PRMT7	protein arginine methyltransferase 7	0.00109	1.37	Normal up vs Off IS Tolerant
1552314_PM_a_at	EYA3	eyes absent homolog 3 (Drosophila)	0.00109	1.47	Normal up vs Off IS Tolerant
235300_PM_x_at	RCHY1	ring finger and CHY zinc finger domain containing 1	0.00109	1.47	Normal up vs Off IS Tolerant
1563283_PM_at	---	---	0.00109	-1.30	Normal down vs Off IS Tolerant
235525_PM_at	---	---	0.00109	-1.27	Normal down vs Off IS Tolerant

1556344_PM_at	LOC150051	hypothetical LOC150051	0.00109	-1.27	Normal down vs Off IS Tolerant
212258_PM_s_at	SMARCA2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a	0.00109	-1.39	Normal down vs Off IS Tolerant
244491_PM_at	---	---	0.00109	-1.40	Normal down vs Off IS Tolerant
224099_PM_at	KCNH7	potassium voltage-gated channel, subfamily H (eag-related), member 7	0.00110	-3.43	Normal down vs Off IS Tolerant
217851_PM_s_at	SLMO2	slowmo homolog 2 (Drosophila)	0.00110	1.66	Normal up vs Off IS Tolerant
242021_PM_at	XBP1	X-box binding protein 1	0.00111	-1.58	Normal down vs Off IS Tolerant
218606_PM_at	ZDHHC7	zinc finger, DHHC-type containing 7	0.00111	-1.35	Normal down vs Off IS Tolerant
235078_PM_at	---	---	0.00111	1.72	Normal up vs Off IS Tolerant
231180_PM_at	LOC100506591	hypothetical LOC100506591	0.00111	-1.33	Normal down vs Off IS Tolerant
232891_PM_at	SIRPD	signal-regulatory protein delta	0.00111	-1.49	Normal down vs Off IS Tolerant
214642_PM_x_at	MAGEA5	melanoma antigen family A, 5	0.00111	-1.51	Normal down vs Off IS Tolerant
202218_PM_s_at	FADS2	fatty acid desaturase 2	0.00111	-1.61	Normal down vs Off IS Tolerant
244307_PM_s_at	---	---	0.00111	-1.30	Normal down vs Off IS Tolerant
201582_PM_at	SEC23B	Sec23 homolog B (S. cerevisiae)	0.00111	-1.45	Normal down vs Off IS Tolerant
211429_PM_s_at	SERPINA1	serpin peptidase inhibitor, clade A (alpha-1 antitrypsin, antitrypsin), member 1	0.00111	-1.48	Normal down vs Off IS Tolerant
203747_PM_at	AQP3	aquaporin 3 (Gill blood group)	0.00111	1.56	Normal up vs Off IS Tolerant
212569_PM_at	SMCHD1	structural maintenance of chromosomes flexible hinge domain containing 1	0.00112	1.26	Normal up vs Off IS Tolerant
238581_PM_at	GBP5	guanylate binding protein 5	0.00112	2.11	Normal up vs Off IS Tolerant

234063_PM_at	---	---	0.00112	-1.32	Normal down vs Off IS Tolerant
203384_PM_s_at	GOLGA1	golgin A1	0.00112	1.44	Normal up vs Off IS Tolerant
203387_PM_s_at	TBC1D4	TBC1 domain family, member 4	0.00112	1.84	Normal up vs Off IS Tolerant
231025_PM_at	---	---	0.00112	-1.27	Normal down vs Off IS Tolerant
230116_PM_at	KRT8P12	Keratin 8 pseudogene 12	0.00112	-1.33	Normal down vs Off IS Tolerant
210253_PM_at	HTATIP2	HIV-1 Tat interactive protein 2, 30kDa	0.00112	1.59	Normal up vs Off IS Tolerant
1566956_PM_at	OR7E104P	olfactory receptor, family 7, subfamily E, member 104 pseudogene	0.00112	-1.83	Normal down vs Off IS Tolerant
201198_PM_s_at	PSMD1	proteasome (prosome, macropain) 26S subunit, non-ATPase, 1	0.00113	-1.38	Normal down vs Off IS Tolerant
242763_PM_at	---	---	0.00113	-1.31	Normal down vs Off IS Tolerant
228721_PM_at	LOC26172	hypothetical LOC26172	0.00113	-1.25	Normal down vs Off IS Tolerant
236910_PM_at	MRPL39	Mitochondrial ribosomal protein L39	0.00113	1.46	Normal up vs Off IS Tolerant
212579_PM_at	SMCHD1	structural maintenance of chromosomes flexible hinge domain containing 1	0.00113	1.33	Normal up vs Off IS Tolerant
206546_PM_at	SYCP2	synaptonemal complex protein 2	0.00113	1.37	Normal up vs Off IS Tolerant
210278_PM_s_at	AP4S1	adaptor-related protein complex 4, sigma 1 subunit	0.00113	1.41	Normal up vs Off IS Tolerant
202372_PM_at	RAB3GAP2	RAB3 GTPase activating protein subunit 2 (non-catalytic)	0.00114	1.43	Normal up vs Off IS Tolerant
200864_PM_s_at	RAB11A	RAB11A, member RAS oncogene family	0.00114	1.59	Normal up vs Off IS Tolerant
213672_PM_at	MARS	methionyl-tRNA synthetase	0.00114	1.49	Normal up vs Off IS Tolerant
236195_PM_x_at	PRKCG	protein kinase C, gamma	0.00115	-1.36	Normal down vs Off IS Tolerant
49306_PM_at	RASSF4	Ras association (RalGDS/AF-6) domain family member 4	0.00115	-1.64	Normal down vs Off IS Tolerant
206248_PM_at	PRKCE	protein kinase C, epsilon	0.00115	-1.23	Normal down vs Off IS Tolerant
205748_PM_s_at	RNF126	ring finger protein 126	0.00115	1.78	Normal up vs Off IS Tolerant

232063_PM_x_at	FARSB /// TRIM61	phenylalanyl-tRNA synthetase, beta subunit /// tripartite motif-containing 61	0.00115	1.57	Normal up vs Off IS Tolerant
203293_PM_s_at	LMAN1	lectin, mannose-binding, 1	0.00115	-1.25	Normal down vs Off IS Tolerant
234683_PM_at	KRTAP4-6	keratin associated protein 4-6	0.00115	-1.29	Normal down vs Off IS Tolerant
223085_PM_at	RNF19A	ring finger protein 19A	0.00116	1.39	Normal up vs Off IS Tolerant
215858_PM_at	---	---	0.00116	-1.30	Normal down vs Off IS Tolerant
242919_PM_at	ZNF253	zinc finger protein 253	0.00116	1.42	Normal up vs Off IS Tolerant
202606_PM_s_at	TLK1	tousled-like kinase 1	0.00116	1.35	Normal up vs Off IS Tolerant
236340_PM_at	LOC100506380	hypothetical LOC100506380	0.00116	-1.25	Normal down vs Off IS Tolerant
212374_PM_at	FEM1B	fem-1 homolog b (C. elegans)	0.00117	1.81	Normal up vs Off IS Tolerant
221935_PM_s_at	C3orf64	chromosome 3 open reading frame 64	0.00117	1.70	Normal up vs Off IS Tolerant
35820_PM_at	GM2A	GM2 ganglioside activator	0.00117	-1.59	Normal down vs Off IS Tolerant
226841_PM_at	MPEG1	macrophage expressed 1	0.00117	-1.39	Normal down vs Off IS Tolerant
223300_PM_s_at	CCDC82	coiled-coil domain containing 82	0.00117	1.45	Normal up vs Off IS Tolerant
228541_PM_x_at	LOC100507029	hypothetical LOC100507029	0.00117	1.28	Normal up vs Off IS Tolerant
232853_PM_at	---	---	0.00117	-1.29	Normal down vs Off IS Tolerant
211731_PM_x_at	SSX3	synovial sarcoma, X breakpoint 3	0.00117	-1.33	Normal down vs Off IS Tolerant
221217_PM_s_at	RBFOX1	RNA binding protein, fox-1 homolog (C. elegans) 1	0.00117	-1.23	Normal down vs Off IS Tolerant
224007_PM_at	HSFY1 /// HSFY2	heat shock transcription factor, Y-linked 1 /// heat shock transcription factor, Y link	0.00117	-1.66	Normal down vs Off IS Tolerant
222765_PM_x_at	ESF1	ESF1, nucleolar pre-rRNA processing protein, homolog (S. cerevisiae)	0.00118	1.61	Normal up vs Off IS Tolerant
1557892_PM_at	LOC100144597	hypothetical LOC100144597	0.00118	-1.28	Normal down vs Off IS Tolerant

205484_PM_at	SIT1	signaling threshold regulating transmembrane adaptor 1	0.00118	-1.40	Normal down vs Off IS Tolerant
1557053_PM_s_at	UBE2G2	ubiquitin-conjugating enzyme E2G 2 (UBC7 homolog, yeast)	0.00118	1.25	Normal up vs Off IS Tolerant
1559126_PM_at	RRP12	ribosomal RNA processing 12 homolog (S. cerevisiae)	0.00118	1.35	Normal up vs Off IS Tolerant
206521_PM_s_at	GTF2A1	general transcription factor IIA, 1, 19/37kDa	0.00118	-1.30	Normal down vs Off IS Tolerant
206506_PM_s_at	SUPT3H	suppressor of Ty 3 homolog (S. cerevisiae)	0.00118	1.64	Normal up vs Off IS Tolerant
206907_PM_at	TNFSF9	tumor necrosis factor (ligand) superfamily, member 9	0.00118	1.52	Normal up vs Off IS Tolerant
204075_PM_s_at	KIAA0562	KIAA0562	0.00118	1.88	Normal up vs Off IS Tolerant
229029_PM_at	CAMK4	calcium/calmodulin-dependent protein kinase IV	0.00118	2.19	Normal up vs Off IS Tolerant
228499_PM_at	PFKFB4	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 4	0.00118	-1.52	Normal down vs Off IS Tolerant
231530_PM_s_at	C11orf1	chromosome 11 open reading frame 1	0.00118	1.75	Normal up vs Off IS Tolerant
235353_PM_at	SEL1L3	sel-1 suppressor of lin-12-like 3 (C. elegans)	0.00118	1.74	Normal up vs Off IS Tolerant
202817_PM_s_at	SS18	synovial sarcoma translocation, chromosome 18	0.00118	1.53	Normal up vs Off IS Tolerant
227313_PM_at	CNPY4	canopy 4 homolog (zebrafish)	0.00118	1.42	Normal up vs Off IS Tolerant
228569_PM_at	PAPOLA	poly(A) polymerase alpha	0.00118	1.60	Normal up vs Off IS Tolerant
242224_PM_at	GPATCH2	G patch domain containing 2	0.00118	-1.50	Normal down vs Off IS Tolerant
242109_PM_at	SYTL3	Synaptotagmin-like 3	0.00119	2.34	Normal up vs Off IS Tolerant
242982_PM_x_at	ITGB8	integrin, beta 8	0.00119	-1.79	Normal down vs Off IS Tolerant
213505_PM_s_at	SUGP2	SURP and G patch domain containing 2	0.00119	1.32	Normal up vs Off IS Tolerant
219498_PM_s_at	BCL11A	B-cell CLL/lymphoma 11A (zinc finger protein)	0.00119	-1.63	Normal down vs Off IS Tolerant
244341_PM_at	---	---	0.00119	1.51	Normal up vs Off IS Tolerant
211585_PM_at	NPAT	nuclear protein, ataxia-telangiectasia locus	0.00119	-2.50	Normal down vs Off IS Tolerant

238646_PM_at	---	---	0.00119	1.66	Normal up vs Off IS Tolerant
220480_PM_at	HAND2	heart and neural crest derivatives expressed 2	0.00119	-1.25	Normal down vs Off IS Tolerant
218052_PM_s_at	ATP13A1	ATPase type 13A1	0.00119	1.60	Normal up vs Off IS Tolerant
212783_PM_at	RBBP6	retinoblastoma binding protein 6	0.00119	1.28	Normal up vs Off IS Tolerant
207914_PM_x_at	EVX1	even-skipped homeobox 1	0.00120	-1.30	Normal down vs Off IS Tolerant
211081_PM_s_at	MAP4K5	mitogen-activated protein kinase kinase kinase 5	0.00120	1.64	Normal up vs Off IS Tolerant
227685_PM_at	TMF1	TATA element modulatory factor 1	0.00120	1.43	Normal up vs Off IS Tolerant
203950_PM_s_at	CLCN6	chloride channel 6	0.00121	1.33	Normal up vs Off IS Tolerant
212453_PM_at	KIAA1279	KIAA1279	0.00121	1.69	Normal up vs Off IS Tolerant
226787_PM_at	ZNF18	zinc finger protein 18	0.00121	1.27	Normal up vs Off IS Tolerant
203934_PM_at	KDR	kinase insert domain receptor (a type III receptor tyrosine kinase)	0.00121	-1.26	Normal down vs Off IS Tolerant
226003_PM_at	KIF21A	kinesin family member 21A	0.00121	1.73	Normal up vs Off IS Tolerant
217030_PM_at	---	---	0.00121	-1.43	Normal down vs Off IS Tolerant
222796_PM_at	PTCD1	pentatricopeptide repeat domain 1	0.00121	1.48	Normal up vs Off IS Tolerant
230644_PM_at	LRFN5	leucine rich repeat and fibronectin type III domain containing 5	0.00121	-1.89	Normal down vs Off IS Tolerant
212261_PM_at	GIGYF2	GRB10 interacting GYF protein 2	0.00121	1.32	Normal up vs Off IS Tolerant
212103_PM_at	KPNA6	karyopherin alpha 6 (importin alpha 7)	0.00122	1.65	Normal up vs Off IS Tolerant
1557120_PM_at	EEF1A1	Eukaryotic translation elongation factor 1 alpha 1	0.00122	1.20	Normal up vs Off IS Tolerant
228314_PM_at	LRRC8C	leucine rich repeat containing 8 family, member C	0.00122	1.70	Normal up vs Off IS Tolerant
236528_PM_at	---	---	0.00122	1.73	Normal up vs Off IS Tolerant
230489_PM_at	CD5	CD5 molecule	0.00122	1.78	Normal up vs Off IS Tolerant
218799_PM_at	GPN2	GPN-loop GTPase 2	0.00122	1.40	Normal up vs Off IS Tolerant
225345_PM_s_at	---	---	0.00123	1.41	Normal up vs Off IS Tolerant
243609_PM_at	CYP3A7	cytochrome P450, family 3, subfamily A, polypeptide 7	0.00123	-1.67	Normal down vs Off IS Tolerant
211276_PM_at	TCEAL2	transcription elongation factor A (SII)-like 2	0.00123	1.27	Normal up vs Off IS Tolerant

241375_PM_at	USP38	ubiquitin specific peptidase 38	0.00123	1.79	Normal up vs Off IS Tolerant
232389_PM_at	WIPF3	WAS/WASL interacting protein family, member 3	0.00123	-1.22	Normal down vs Off IS Tolerant
233421_PM_s_at	NUP133	nucleoporin 133kDa	0.00123	1.25	Normal up vs Off IS Tolerant
226030_PM_at	ACADSB	acyl-CoA dehydrogenase, short/branched chain	0.00123	1.57	Normal up vs Off IS Tolerant
241322_PM_at	---	---	0.00123	-1.31	Normal down vs Off IS Tolerant
240554_PM_at	AKAP8L	A kinase (PRKA) anchor protein 8-like	0.00124	1.59	Normal up vs Off IS Tolerant
204742_PM_s_at	PDS5B	PDS5, regulator of cohesion maintenance, homolog B (<i>S. cerevisiae</i>)	0.00124	1.54	Normal up vs Off IS Tolerant
242249_PM_at	---	---	0.00124	-1.70	Normal down vs Off IS Tolerant
225963_PM_at	KLHDC5	kelch domain containing 5	0.00124	1.35	Normal up vs Off IS Tolerant
235103_PM_at	MAN2A1	mannosidase, alpha, class 2A, member 1	0.00124	1.43	Normal up vs Off IS Tolerant
203932_PM_at	HLA-DMB	major histocompatibility complex, class II, DM beta	0.00124	-1.27	Normal down vs Off IS Tolerant
238483_PM_at	SSBP2	single-stranded DNA binding protein 2	0.00124	1.48	Normal up vs Off IS Tolerant
228639_PM_at	---	---	0.00124	1.43	Normal up vs Off IS Tolerant
233929_PM_x_at	WASH3P	WAS protein family homolog 3 pseudogene	0.00124	1.33	Normal up vs Off IS Tolerant
213367_PM_at	LOC155060	AI894139 pseudogene	0.00125	1.32	Normal up vs Off IS Tolerant
203184_PM_at	FBN2	fibrillin 2	0.00125	-1.82	Normal down vs Off IS Tolerant
231953_PM_at	BPTF	bromodomain PHD finger transcription factor	0.00125	1.48	Normal up vs Off IS Tolerant
203922_PM_s_at	CYBB	cytochrome b-245, beta polypeptide	0.00125	-1.44	Normal down vs Off IS Tolerant
216857_PM_at	IL23A	Interleukin 23, alpha subunit p19	0.00125	1.52	Normal up vs Off IS Tolerant
235698_PM_at	ZFP90	zinc finger protein 90 homolog (mouse)	0.00125	1.95	Normal up vs Off IS Tolerant
1569470_PM_a_at	FRMD5	FERM domain containing 5	0.00125	-1.23	Normal down vs Off IS Tolerant

203141_PM_s_at	AP3B1	adaptor-related protein complex 3, beta 1 subunit	0.00125	-1.38	Normal down vs Off IS Tolerant
1556954_PM_at	LOC283854	hypothetical protein LOC283854	0.00125	-1.29	Normal down vs Off IS Tolerant
239074_PM_at	GRAPL	GRB2-related adaptor protein-like	0.00125	-1.27	Normal down vs Off IS Tolerant
224250_PM_s_at	SECISBP2	SECIS binding protein 2	0.00126	1.21	Normal up vs Off IS Tolerant
226421_PM_at	AMMECR1	Alport syndrome, mental retardation, midface hypoplasia and elliptocytosis chromosomal	0.00126	1.78	Normal up vs Off IS Tolerant
208555_PM_x_at	CST2	cystatin SA	0.00126	-1.21	Normal down vs Off IS Tolerant
218797_PM_s_at	SIRT7	sirtuin 7	0.00126	1.35	Normal up vs Off IS Tolerant
220566_PM_at	PIK3R5	phosphoinositide-3-kinase, regulatory subunit 5	0.00126	1.58	Normal up vs Off IS Tolerant
240365_PM_at	LOC647946	hypothetical LOC647946	0.00126	-1.34	Normal down vs Off IS Tolerant
52005_PM_at	WIZ	widely interspaced zinc finger motifs	0.00126	1.42	Normal up vs Off IS Tolerant
207333_PM_at	NMBR	neuromedin B receptor	0.00126	-1.47	Normal down vs Off IS Tolerant
201269_PM_s_at	NUDCD3	NudC domain containing 3	0.00126	1.31	Normal up vs Off IS Tolerant
213058_PM_at	TTC28	tetratricopeptide repeat domain 28	0.00126	1.38	Normal up vs Off IS Tolerant
222916_PM_s_at	HDLBP	high density lipoprotein binding protein	0.00126	1.35	Normal up vs Off IS Tolerant
239531_PM_at	---	---	0.00127	1.39	Normal up vs Off IS Tolerant
1558369_PM_at	MPHOSPH9	M-phase phosphoprotein 9	0.00127	1.69	Normal up vs Off IS Tolerant
213000_PM_at	MORC3	MORC family CW-type zinc finger 3	0.00127	1.48	Normal up vs Off IS Tolerant
207352_PM_s_at	GABRB2	gamma-aminobutyric acid (GABA) A receptor, beta 2	0.00127	-1.37	Normal down vs Off IS Tolerant
206395_PM_at	DGKG	diacylglycerol kinase, gamma 90kDa	0.00127	-1.25	Normal down vs Off IS Tolerant
1559322_PM_at	LOC727916	hypothetical protein LOC727916	0.00127	1.26	Normal up vs Off IS Tolerant
1563611_PM_at	---	---	0.00127	-1.32	Normal down vs Off IS Tolerant
1558458_PM_at	LOC401320	Hypothetical LOC401320	0.00128	1.68	Normal up vs Off IS Tolerant

237970_PM_at	---	---	0.00128	-2.00	Normal down vs Off IS Tolerant
227594_PM_at	ZMYM6	zinc finger, MYM-type 6	0.00128	1.58	Normal up vs Off IS Tolerant
229151_PM_at	SLC14A1	solute carrier family 14 (urea transporter), member 1 (Kidd blood group)	0.00128	2.19	Normal up vs Off IS Tolerant
214289_PM_at	PSMB1	Proteasome (prosome, macropain) subunit, beta type, 1	0.00128	1.48	Normal up vs Off IS Tolerant
1558588_PM_at	---	---	0.00129	-1.84	Normal down vs Off IS Tolerant
209146_PM_at	SC4MOL	sterol-C4-methyl oxidase-like	0.00129	1.51	Normal up vs Off IS Tolerant
217925_PM_s_at	C6orf106	chromosome 6 open reading frame 106	0.00129	1.41	Normal up vs Off IS Tolerant
222305_PM_at	HK2	hexokinase 2	0.00129	-1.33	Normal down vs Off IS Tolerant
1559521_PM_at	---	---	0.00129	-1.56	Normal down vs Off IS Tolerant
208167_PM_s_at	MMP16	matrix metalloproteinase 16 (membrane-inserted)	0.00129	-1.60	Normal down vs Off IS Tolerant
204037_PM_at	LPAR1	lysophosphatidic acid receptor 1	0.00129	-1.37	Normal down vs Off IS Tolerant
219515_PM_at	PRDM10	PR domain containing 10	0.00129	1.43	Normal up vs Off IS Tolerant
225753_PM_at	ZNF513	zinc finger protein 513	0.00130	1.37	Normal up vs Off IS Tolerant
225641_PM_at	MEF2D	myocyte enhancer factor 2D	0.00131	1.42	Normal up vs Off IS Tolerant
216133_PM_at	TRD@	T cell receptor delta locus	0.00131	1.77	Normal up vs Off IS Tolerant
203245_PM_s_at	NCRNA00094	non-protein coding RNA 94	0.00131	1.63	Normal up vs Off IS Tolerant
241858_PM_at	---	---	0.00131	-1.32	Normal down vs Off IS Tolerant
229360_PM_at	ZNF280B	zinc finger protein 280B	0.00131	1.35	Normal up vs Off IS Tolerant
232335_PM_at	---	---	0.00131	-1.57	Normal down vs Off IS Tolerant
219384_PM_s_at	ADAT1	adenosine deaminase, tRNA-specific 1	0.00131	1.63	Normal up vs Off IS Tolerant
232466_PM_at	CUL4A	Cullin 4A	0.00131	1.64	Normal up vs Off IS Tolerant
215038_PM_s_at	SETD2	SET domain containing 2	0.00131	1.51	Normal up vs Off IS Tolerant
213318_PM_s_at	BAT3	HLA-B associated transcript 3	0.00131	1.25	Normal up vs Off IS Tolerant

223276_PM_at	C5orf62	chromosome 5 open reading frame 62	0.00131	1.76	Normal up vs Off IS Tolerant
217144_PM_at	UBB	ubiquitin B	0.00131	1.83	Normal up vs Off IS Tolerant
225628_PM_s_at	MLLT6	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocate	0.00131	1.48	Normal up vs Off IS Tolerant
1560524_PM_at	GRAPL	GRB2-related adaptor protein-like	0.00132	-1.31	Normal down vs Off IS Tolerant
203528_PM_at	SEMA4D	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic	0.00132	1.30	Normal up vs Off IS Tolerant
226698_PM_at	FCHSD1	FCH and double SH3 domains 1	0.00132	1.45	Normal up vs Off IS Tolerant
218650_PM_at	DGCR8	DiGeorge syndrome critical region gene 8	0.00132	1.69	Normal up vs Off IS Tolerant
205708_PM_s_at	TRPM2	transient receptor potential cation channel, subfamily M, member 2	0.00132	-1.41	Normal down vs Off IS Tolerant
222810_PM_s_at	RASAL2	RAS protein activator like 2	0.00132	-1.51	Normal down vs Off IS Tolerant
203864_PM_s_at	ACTN2	actinin, alpha 2	0.00132	-1.25	Normal down vs Off IS Tolerant
239683_PM_at	CLYBL	citrate lyase beta like	0.00133	1.29	Normal up vs Off IS Tolerant
211332_PM_x_at	HFE	hemochromatosis	0.00133	-1.31	Normal down vs Off IS Tolerant
237189_PM_at	LOC100506360	hypothetical LOC100506360	0.00133	1.85	Normal up vs Off IS Tolerant
224567_PM_x_at	MALAT1	metastasis associated lung adenocarcinoma transcript 1 (non-protein coding)	0.00133	-1.18	Normal down vs Off IS Tolerant
217540_PM_at	FAM55C	family with sequence similarity 55, member C	0.00133	1.85	Normal up vs Off IS Tolerant
1564263_PM_at	LOC144817	hypothetical protein LOC144817	0.00133	-1.42	Normal down vs Off IS Tolerant
210879_PM_s_at	RAB11FIP5	RAB11 family interacting protein 5 (class I)	0.00134	1.44	Normal up vs Off IS Tolerant
1552788_PM_a_at	HELB	helicase (DNA) B	0.00134	1.45	Normal up vs Off IS Tolerant
217991_PM_x_at	SSBP3	single stranded DNA binding protein 3	0.00134	1.29	Normal up vs Off IS Tolerant

210423_PM_s_at	SLC11A1	solute carrier family 11 (proton-coupled divalent metal ion transporters), member 1	0.00134	-1.62	Normal down vs Off IS Tolerant
228613_PM_at	RAB11FIP3	RAB11 family interacting protein 3 (class II)	0.00134	1.65	Normal up vs Off IS Tolerant
220735_PM_s_at	SENP7	SUMO1/sentrin specific peptidase 7	0.00135	1.92	Normal up vs Off IS Tolerant
228113_PM_at	RAB37	RAB37, member RAS oncogene family	0.00135	1.41	Normal up vs Off IS Tolerant
224781_PM_s_at	RBM17	RNA binding motif protein 17	0.00135	1.12	Normal up vs Off IS Tolerant
237137_PM_at	SCARNA2	small Cajal body-specific RNA 2	0.00135	1.33	Normal up vs Off IS Tolerant
1555133_PM_at	FAM9A	family with sequence similarity 9, member A	0.00135	-1.20	Normal down vs Off IS Tolerant
228547_PM_at	NRXN1	neurexin 1	0.00135	-1.86	Normal down vs Off IS Tolerant
234662_PM_at	RAD21L1	RAD21-like 1 (<i>S. pombe</i>)	0.00135	-1.34	Normal down vs Off IS Tolerant
205691_PM_at	SYNGR3	synaptogyrin 3	0.00136	1.60	Normal up vs Off IS Tolerant
229261_PM_at	---	---	0.00136	-1.38	Normal down vs Off IS Tolerant
1557623_PM_at	---	---	0.00136	-1.29	Normal down vs Off IS Tolerant
202308_PM_at	SREBF1	sterol regulatory element binding transcription factor 1	0.00136	1.39	Normal up vs Off IS Tolerant
231368_PM_at	BOD1P	biorientation of chromosomes in cell division 1 pseudogene	0.00137	-1.26	Normal down vs Off IS Tolerant
218355_PM_at	KIF4A	kinesin family member 4A	0.00137	-1.25	Normal down vs Off IS Tolerant
237264_PM_at	---	---	0.00137	-1.62	Normal down vs Off IS Tolerant
206550_PM_s_at	NUP155	nucleoporin 155kDa	0.00137	1.86	Normal up vs Off IS Tolerant
236960_PM_at	---	---	0.00137	-1.22	Normal down vs Off IS Tolerant
220914_PM_at	---	---	0.00137	-1.31	Normal down vs Off IS Tolerant
243189_PM_at	---	---	0.00137	1.85	Normal up vs Off IS Tolerant
209315_PM_at	HBS1L	HBS1-like (<i>S. cerevisiae</i>)	0.00138	1.64	Normal up vs Off IS Tolerant

242839_PM_at	---	---	0.00138	1.38	Normal up vs Off IS Tolerant
1552845_PM_at	CLDN15	claudin 15	0.00138	1.45	Normal up vs Off IS Tolerant
208617_PM_s_at	PTP4A2	protein tyrosine phosphatase type IVA, member 2	0.00138	1.18	Normal up vs Off IS Tolerant
210811_PM_s_at	DDX49	DEAD (Asp-Glu-Ala-Asp) box polypeptide 49	0.00138	1.44	Normal up vs Off IS Tolerant
38157_PM_at	DOM3Z	dom-3 homolog Z (C. elegans)	0.00138	1.36	Normal up vs Off IS Tolerant
238061_PM_at	LGI3	leucine-rich repeat LGI family, member 3	0.00138	-1.22	Normal down vs Off IS Tolerant
243567_PM_at	---	---	0.00139	-1.38	Normal down vs Off IS Tolerant
214039_PM_s_at	LAPTM4B	lysosomal protein transmembrane 4 beta	0.00139	1.71	Normal up vs Off IS Tolerant
235154_PM_at	TAF3	TAF3 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 140kDa	0.00139	1.35	Normal up vs Off IS Tolerant
212573_PM_at	ENDOD1	endonuclease domain containing 1	0.00139	1.58	Normal up vs Off IS Tolerant
233264_PM_at	---	---	0.00139	1.29	Normal up vs Off IS Tolerant
205667_PM_at	WRN	Werner syndrome, RecQ helicase-like	0.00139	1.66	Normal up vs Off IS Tolerant
200850_PM_s_at	AHCYL1	adenosylhomocysteinase-like 1	0.00139	-1.27	Normal down vs Off IS Tolerant
224243_PM_at	APOA5	apolipoprotein A-V	0.00139	-1.24	Normal down vs Off IS Tolerant
241334_PM_at	---	---	0.00139	-1.29	Normal down vs Off IS Tolerant
1561760_PM_s_at	LOC645513	Hypothetical LOC645513	0.00139	1.47	Normal up vs Off IS Tolerant
1555351_PM_s_at	PPHLN1	periphilin 1	0.00139	1.40	Normal up vs Off IS Tolerant
228606_PM_at	TCTEX1D2	Tctex1 domain containing 2	0.00140	1.62	Normal up vs Off IS Tolerant
203980_PM_at	FABP4	fatty acid binding protein 4, adipocyte	0.00140	-1.40	Normal down vs Off IS Tolerant
242007_PM_at	---	---	0.00140	-1.69	Normal down vs Off IS Tolerant
242632_PM_at	FGD2	FYVE, RhoGEF and PH domain containing 2	0.00140	-1.28	Normal down vs Off IS Tolerant

1558648_PM_at	C15orf57	chromosome 15 open reading frame 57	0.00140	-1.58	Normal down vs Off IS Tolerant
217461_PM_x_at	BTF3	basic transcription factor 3	0.00140	1.28	Normal up vs Off IS Tolerant
1554636_PM_at	---	---	0.00140	1.85	Normal up vs Off IS Tolerant
205658_PM_s_at	SNAPC4	small nuclear RNA activating complex, polypeptide 4, 190kDa	0.00140	1.55	Normal up vs Off IS Tolerant
227973_PM_at	C2orf69	chromosome 2 open reading frame 69	0.00140	1.59	Normal up vs Off IS Tolerant
213105_PM_s_at	C16orf42	chromosome 16 open reading frame 42	0.00140	1.43	Normal up vs Off IS Tolerant
224079_PM_at	IL17C	interleukin 17C	0.00140	-1.32	Normal down vs Off IS Tolerant
224711_PM_at	YY1	YY1 transcription factor	0.00141	1.32	Normal up vs Off IS Tolerant
231391_PM_at	CTXN3	cortexin 3	0.00141	-1.25	Normal down vs Off IS Tolerant
213373_PM_s_at	CASP8	caspase 8, apoptosis-related cysteine peptidase	0.00141	1.36	Normal up vs Off IS Tolerant
208682_PM_s_at	MAGED2	melanoma antigen family D, 2	0.00141	1.41	Normal up vs Off IS Tolerant
237386_PM_at	---	---	0.00141	1.31	Normal up vs Off IS Tolerant
242995_PM_at	---	---	0.00142	1.56	Normal up vs Off IS Tolerant
38398_PM_at	MADD	MAP-kinase activating death domain	0.00142	1.30	Normal up vs Off IS Tolerant
226316_PM_at	---	---	0.00142	1.44	Normal up vs Off IS Tolerant
225691_PM_at	CDK12	cyclin-dependent kinase 12	0.00142	1.31	Normal up vs Off IS Tolerant
213555_PM_at	RWDD2A	RWD domain containing 2A	0.00142	1.46	Normal up vs Off IS Tolerant
214602_PM_at	COL4A4	collagen, type IV, alpha 4	0.00142	1.23	Normal up vs Off IS Tolerant
237177_PM_at	CNTN4	contactin 4	0.00142	-1.70	Normal down vs Off IS Tolerant
203754_PM_s_at	BRF1	BRF1 homolog, subunit of RNA polymerase III transcription initiation factor IIIB (S. ce	0.00142	1.41	Normal up vs Off IS Tolerant
242543_PM_at	SH2D6	SH2 domain containing 6	0.00142	-1.25	Normal down vs Off IS Tolerant
237939_PM_at	EPHA5	EPH receptor A5	0.00142	-1.38	Normal down vs Off IS Tolerant
203778_PM_at	MANBA	mannosidase, beta A, lysosomal	0.00143	-1.27	Normal down vs Off IS Tolerant

41644_PM_at	SASH1	SAM and SH3 domain containing 1	0.00143	-1.64	Normal down vs Off IS Tolerant
220541_PM_at	MMP26	matrix metalloproteinase 26	0.00143	-1.42	Normal down vs Off IS Tolerant
208901_PM_s_at	TOP1	topoisomerase (DNA) I	0.00143	-1.26	Normal down vs Off IS Tolerant
214861_PM_at	KDM4C	lysine (K)-specific demethylase 4C	0.00143	1.40	Normal up vs Off IS Tolerant
209589_PM_s_at	EPHB2	EPH receptor B2	0.00144	-1.50	Normal down vs Off IS Tolerant
1560219_PM_at	ASB3	Ankyrin repeat and SOCS box-containing 3	0.00144	-1.35	Normal down vs Off IS Tolerant
213113_PM_s_at	SLC43A3	solute carrier family 43, member 3	0.00144	-1.51	Normal down vs Off IS Tolerant
201494_PM_at	PRCP	prolylcarboxypeptidase (angiotensinase C)	0.00144	-1.31	Normal down vs Off IS Tolerant
211955_PM_at	IPO5	importin 5	0.00144	1.40	Normal up vs Off IS Tolerant
218181_PM_s_at	MAP4K4	mitogen-activated protein kinase kinase kinase 4	0.00144	1.44	Normal up vs Off IS Tolerant
221393_PM_at	TAAR3	trace amine associated receptor 3 (gene/pseudogene)	0.00144	-1.35	Normal down vs Off IS Tolerant
1560402_PM_at	GAS5	growth arrest-specific 5 (non-protein coding)	0.00144	1.25	Normal up vs Off IS Tolerant
227103_PM_s_at	ECE2	endothelin converting enzyme 2	0.00144	-1.27	Normal down vs Off IS Tolerant
212635_PM_at	TNPO1	transportin 1	0.00145	1.33	Normal up vs Off IS Tolerant
234536_PM_at	SARDH	sarcosine dehydrogenase	0.00145	-1.45	Normal down vs Off IS Tolerant
220927_PM_s_at	HPSE2	heparanase 2	0.00145	-1.34	Normal down vs Off IS Tolerant
213070_PM_at	PIK3C2A	phosphoinositide-3-kinase, class 2, alpha polypeptide	0.00145	1.50	Normal up vs Off IS Tolerant
233859_PM_at	C14orf145	chromosome 14 open reading frame 145	0.00145	-1.36	Normal down vs Off IS Tolerant
221822_PM_at	CCDC101	coiled-coil domain containing 101	0.00145	1.40	Normal up vs Off IS Tolerant

225982_PM_at	UBTF	upstream binding transcription factor, RNA polymerase I	0.00145	1.28	Normal up vs Off IS Tolerant
202167_PM_s_at	MMS19	MMS19 nucleotide excision repair homolog (<i>S. cerevisiae</i>)	0.00145	1.42	Normal up vs Off IS Tolerant
200844_PM_s_at	PRDX6	peroxiredoxin 6	0.00146	1.33	Normal up vs Off IS Tolerant
217969_PM_at	C11orf2	chromosome 11 open reading frame 2	0.00146	1.28	Normal up vs Off IS Tolerant
1555967_PM_at	---	---	0.00146	1.52	Normal up vs Off IS Tolerant
1561651_PM_s_at	TAL1	T-cell acute lymphocytic leukemia 1	0.00146	1.96	Normal up vs Off IS Tolerant
219738_PM_s_at	PCDH9	protocadherin 9	0.00146	-1.72	Normal down vs Off IS Tolerant
212083_PM_at	TEX261	testis expressed 261	0.00147	1.44	Normal up vs Off IS Tolerant
1568870_PM_at	SLC24A4	solute carrier family 24 (sodium/potassium/calcium exchanger), member 4	0.00147	-1.50	Normal down vs Off IS Tolerant
224863_PM_at	GNAQ	guanine nucleotide binding protein (G protein), q polypeptide	0.00147	-1.30	Normal down vs Off IS Tolerant
206777_PM_s_at	CRYBB2 /// CRYBB2P1	crystallin, beta B2 /// crystallin, beta B2 pseudogene 1	0.00147	1.89	Normal up vs Off IS Tolerant
213254_PM_at	TNRC6B	trinucleotide repeat containing 6B	0.00147	1.27	Normal up vs Off IS Tolerant
1569366_PM_a_at	ZNF569	zinc finger protein 569	0.00147	1.60	Normal up vs Off IS Tolerant
223023_PM_at	BET1L	blocked early in transport 1 homolog (<i>S. cerevisiae</i>)-like	0.00147	1.40	Normal up vs Off IS Tolerant
236377_PM_at	TMEM132D	transmembrane protein 132D	0.00147	-1.22	Normal down vs Off IS Tolerant
212357_PM_at	FAM168A	family with sequence similarity 168, member A	0.00148	1.43	Normal up vs Off IS Tolerant
224192_PM_at	FCRL2	Fc receptor-like 2	0.00148	-1.40	Normal down vs Off IS Tolerant
203564_PM_at	FANCG	Fanconi anemia, complementation group G	0.00148	1.37	Normal up vs Off IS Tolerant
206296_PM_x_at	MAP4K1	mitogen-activated protein kinase kinase kinase kinase 1	0.00148	1.47	Normal up vs Off IS Tolerant
238686_PM_at	FBXO3	F-box protein 3	0.00148	1.47	Normal up vs Off IS Tolerant
232617_PM_at	CTSS	cathepsin S	0.00148	-1.28	Normal down vs Off IS Tolerant

243560_PM_at	---	---	0.00148	1.30	Normal up vs Off IS Tolerant
217032_PM_at	FOXD4 /// FOXD4L1	forkhead box D4 /// forkhead box D4-like 1	0.00149	-1.41	Normal down vs Off IS Tolerant
203773_PM_x_at	BLVRA	biliverdin reductase A	0.00149	-1.42	Normal down vs Off IS Tolerant
1598_PM_g_at	GAS6	growth arrest-specific 6	0.00149	-1.38	Normal down vs Off IS Tolerant
243766_PM_s_at	TEAD2	TEA domain family member 2	0.00149	-1.59	Normal down vs Off IS Tolerant
238959_PM_at	LARP4	La ribonucleoprotein domain family, member 4	0.00149	-1.33	Normal down vs Off IS Tolerant
234344_PM_at	LOC100288675	Hypothetical protein LOC100288675	0.00150	2.04	Normal up vs Off IS Tolerant
233357_PM_at	TRIM67	tripartite motif-containing 67	0.00150	-1.47	Normal down vs Off IS Tolerant
244570_PM_at	---	---	0.00150	-1.27	Normal down vs Off IS Tolerant
232925_PM_at	---	---	0.00150	-1.41	Normal down vs Off IS Tolerant
222761_PM_at	BIVM	basic, immunoglobulin-like variable motif containing	0.00150	1.53	Normal up vs Off IS Tolerant
200706_PM_s_at	LITAF	lipopolysaccharide-induced TNF factor	0.00150	1.52	Normal up vs Off IS Tolerant
226983_PM_at	ZNF777	zinc finger protein 777	0.00150	1.29	Normal up vs Off IS Tolerant
240592_PM_at	LCORL	ligand dependent nuclear receptor corepressor-like	0.00150	-1.48	Normal down vs Off IS Tolerant
223135_PM_s_at	BBX	bobby sox homolog (Drosophila)	0.00151	1.23	Normal up vs Off IS Tolerant
1569973_PM_at	SEPT7P2	Septin 7 pseudogene 2	0.00151	1.49	Normal up vs Off IS Tolerant
224897_PM_at	WDR26	WD repeat domain 26	0.00151	1.31	Normal up vs Off IS Tolerant
206955_PM_at	AQP7	aquaporin 7	0.00151	-1.28	Normal down vs Off IS Tolerant
219554_PM_at	RHCG	Rh family, C glycoprotein	0.00151	-1.27	Normal down vs Off IS Tolerant
1567906_PM_at	SOX4	SRY (sex determining region Y)-box 4	0.00151	-1.48	Normal down vs Off IS Tolerant
1556988_PM_s_at	CHD1L	chromodomain helicase DNA binding protein 1-like	0.00152	1.31	Normal up vs Off IS Tolerant

211606_PM_at	---	---	0.00152	-1.21	Normal down vs Off IS Tolerant
225957_PM_at	C5orf41	chromosome 5 open reading frame 41	0.00152	1.37	Normal up vs Off IS Tolerant
214676_PM_x_at	MUC3A /// MUC3B	mucin 3A, cell surface associated /// mucin 3B, cell surface associated	0.00152	-1.34	Normal down vs Off IS Tolerant
208899_PM_x_at	ATP6V1D	ATPase, H+ transporting, lysosomal 34kDa, V1 subunit D	0.00153	-1.67	Normal down vs Off IS Tolerant
209939_PM_x_at	CFLAR	CASP8 and FADD-like apoptosis regulator	0.00153	1.63	Normal up vs Off IS Tolerant
1494_PM_f_at	CYP2A6	cytochrome P450, family 2, subfamily A, polypeptide 6	0.00153	-1.22	Normal down vs Off IS Tolerant
218836_PM_at	RPP21 /// TRIM39 /// TRIM39R	ribonuclease P/MRP 21kDa subunit /// tripartite motif-containing 39 /// TRIM39- like pro	0.00153	1.23	Normal up vs Off IS Tolerant
230110_PM_at	MCOLN2	mucolipin 2	0.00153	2.03	Normal up vs Off IS Tolerant
59375_PM_at	MYO15B	myosin XVB pseudogene	0.00153	1.53	Normal up vs Off IS Tolerant
244787_PM_at	---	---	0.00153	1.77	Normal up vs Off IS Tolerant
1552658_PM_a_at	NAV3	neuron navigator 3	0.00153	-2.22	Normal down vs Off IS Tolerant
232753_PM_at	ZNF346	zinc finger protein 346	0.00154	1.27	Normal up vs Off IS Tolerant
230416_PM_at	---	---	0.00154	2.21	Normal up vs Off IS Tolerant
201482_PM_at	QSOX1	quiescin Q6 sulfhydryl oxidase 1	0.00154	-1.43	Normal down vs Off IS Tolerant
1552760_PM_at	HDAC9	histone deacetylase 9	0.00155	-1.37	Normal down vs Off IS Tolerant
214986_PM_x_at	PPIL2	peptidylprolyl isomerase (cyclophilin)- like 2	0.00155	1.39	Normal up vs Off IS Tolerant
1561058_PM_at	---	---	0.00155	-1.42	Normal down vs Off IS Tolerant
212080_PM_at	MLL	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila)	0.00155	1.48	Normal up vs Off IS Tolerant
205580_PM_s_at	HRH1	histamine receptor H1	0.00155	-1.22	Normal down vs Off IS Tolerant

202982_PM_s_at	ACOT1 /// ACOT2	acyl-CoA thioesterase 1 /// acyl-CoA thioesterase 2	0.00155	1.72	Normal up vs Off IS Tolerant
236787_PM_at	LOC100507286	hypothetical LOC100507286	0.00155	1.49	Normal up vs Off IS Tolerant
212066_PM_s_at	USP34	ubiquitin specific peptidase 34	0.00155	1.16	Normal up vs Off IS Tolerant
242206_PM_at	---	---	0.00156	1.35	Normal up vs Off IS Tolerant
229878_PM_at	KIAA1731	KIAA1731	0.00156	1.42	Normal up vs Off IS Tolerant
213958_PM_at	CD6	CD6 molecule	0.00156	1.75	Normal up vs Off IS Tolerant
228478_PM_at	---	---	0.00156	1.88	Normal up vs Off IS Tolerant
217000_PM_at	---	---	0.00156	-1.29	Normal down vs Off IS Tolerant
230556_PM_at	IMMP1L	IMP1 inner mitochondrial membrane peptidase-like (<i>S. cerevisiae</i>)	0.00156	1.31	Normal up vs Off IS Tolerant
209599_PM_s_at	PRUNE	prune homolog (<i>Drosophila</i>)	0.00157	1.54	Normal up vs Off IS Tolerant
236728_PM_at	LNPEP	leucyl/cystinyl aminopeptidase	0.00157	1.63	Normal up vs Off IS Tolerant
201639_PM_s_at	CPSF1	cleavage and polyadenylation specific factor 1, 160kDa	0.00157	1.44	Normal up vs Off IS Tolerant
236526_PM_x_at	C5orf44	chromosome 5 open reading frame 44	0.00157	1.67	Normal up vs Off IS Tolerant
241742_PM_at	PRAM1	PML-RARA regulated adaptor molecule 1	0.00157	-1.46	Normal down vs Off IS Tolerant
225187_PM_at	KIAA1967	KIAA1967	0.00157	1.23	Normal up vs Off IS Tolerant
1569013_PM_s_at	LOC96610	BMS1 homolog, ribosome assembly protein (yeast) pseudogene	0.00157	-1.82	Normal down vs Off IS Tolerant
226648_PM_at	HIF1AN	hypoxia inducible factor 1, alpha subunit inhibitor	0.00157	1.58	Normal up vs Off IS Tolerant
219563_PM_at	C14orf139	chromosome 14 open reading frame 139	0.00158	1.30	Normal up vs Off IS Tolerant
1560142_PM_at	GRIK2	glutamate receptor, ionotropic, kainate 2	0.00158	-3.79	Normal down vs Off IS Tolerant
209625_PM_at	PIGH	phosphatidylinositol glycan anchor biosynthesis, class H	0.00158	1.56	Normal up vs Off IS Tolerant
200732_PM_s_at	PTP4A1	protein tyrosine phosphatase type IVA, member 1	0.00158	1.50	Normal up vs Off IS Tolerant
1556721_PM_at	C20orf203	chromosome 20 open reading frame 203	0.00158	-1.24	Normal down vs Off IS Tolerant

208896_PM_at	DDX18	DEAD (Asp-Glu-Ala-Asp) box polypeptide 18	0.00158	1.41	Normal up vs Off IS Tolerant
204235_PM_s_at	GULP1	GULP, engulfment adaptor PTB domain containing 1	0.00158	-1.30	Normal down vs Off IS Tolerant
1562509_PM_at	---	---	0.00158	-1.42	Normal down vs Off IS Tolerant
1562434_PM_at	UNK	unkempt homolog (Drosophila)	0.00158	1.31	Normal up vs Off IS Tolerant
202408_PM_s_at	PRPF31	PRP31 pre-mRNA processing factor 31 homolog (S. cerevisiae)	0.00158	1.18	Normal up vs Off IS Tolerant
239193_PM_at	FUBP3	far upstream element (FUSE) binding protein 3	0.00159	1.87	Normal up vs Off IS Tolerant
228990_PM_at	SNHG12	small nucleolar RNA host gene 12 (non-protein coding)	0.00159	1.63	Normal up vs Off IS Tolerant
217124_PM_at	IQCE	IQ motif containing E	0.00159	-1.29	Normal down vs Off IS Tolerant
242766_PM_at	---	---	0.00159	-3.39	Normal down vs Off IS Tolerant
220481_PM_at	GPR75	G protein-coupled receptor 75	0.00159	-1.24	Normal down vs Off IS Tolerant
241610_PM_x_at	---	---	0.00159	-1.43	Normal down vs Off IS Tolerant
225494_PM_at	---	---	0.00159	1.34	Normal up vs Off IS Tolerant
1563089_PM_at	LOC100287027	Similar to hCG2038690	0.00159	-1.27	Normal down vs Off IS Tolerant
226310_PM_at	RICTOR	RPTOR independent companion of MTOR, complex 2	0.00160	1.81	Normal up vs Off IS Tolerant
239813_PM_at	IQCH	IQ motif containing H	0.00160	-1.31	Normal down vs Off IS Tolerant
215047_PM_at	TRIM58	tripartite motif-containing 58	0.00160	3.26	Normal up vs Off IS Tolerant
208762_PM_at	SUMO1	SMT3 suppressor of mif two 3 homolog 1 (S. cerevisiae)	0.00161	1.89	Normal up vs Off IS Tolerant
234311_PM_s_at	GTPBP10	GTP-binding protein 10 (putative)	0.00161	1.61	Normal up vs Off IS Tolerant
243213_PM_at	STAT3	signal transducer and activator of transcription 3 (acute-phase response factor)	0.00162	1.81	Normal up vs Off IS Tolerant

205961_PM_s_at	PSIP1	PC4 and SFRS1 interacting protein 1	0.00162	1.62	Normal up vs Off IS Tolerant
206361_PM_at	GPR44	G protein-coupled receptor 44	0.00162	-1.34	Normal down vs Off IS Tolerant
1557357_PM_at	LOC440944	hypothetical LOC440944	0.00162	-1.32	Normal down vs Off IS Tolerant
217117_PM_x_at	MUC3A	mucin 3A, cell surface associated	0.00162	-1.39	Normal down vs Off IS Tolerant
230564_PM_at	SIPA1L3	Signal-induced proliferation-associated 1 like 3	0.00162	-1.29	Normal down vs Off IS Tolerant
228439_PM_at	BATF2	basic leucine zipper transcription factor, ATF-like 2	0.00162	-1.34	Normal down vs Off IS Tolerant
234150_PM_at	---	---	0.00162	1.86	Normal up vs Off IS Tolerant
242028_PM_at	ZNF709	zinc finger protein 709	0.00163	1.47	Normal up vs Off IS Tolerant
235291_PM_s_at	FLJ32255	hypothetical LOC643977	0.00163	1.82	Normal up vs Off IS Tolerant
1558504_PM_at	---	---	0.00163	-1.51	Normal down vs Off IS Tolerant
216130_PM_at	---	---	0.00163	-1.26	Normal down vs Off IS Tolerant
240839_PM_at	---	---	0.00163	1.58	Normal up vs Off IS Tolerant
212553_PM_at	RPRD2	regulation of nuclear pre-mRNA domain containing 2	0.00164	1.34	Normal up vs Off IS Tolerant
215497_PM_s_at	WDTC1	WD and tetratricopeptide repeats 1	0.00164	1.39	Normal up vs Off IS Tolerant
206590_PM_x_at	DRD2	dopamine receptor D2	0.00164	-1.36	Normal down vs Off IS Tolerant
200780_PM_x_at	GNAS	GNAS complex locus	0.00164	1.19	Normal up vs Off IS Tolerant
211887_PM_x_at	MSR1	macrophage scavenger receptor 1	0.00164	-1.27	Normal down vs Off IS Tolerant
1566693_PM_at	---	---	0.00164	-1.32	Normal down vs Off IS Tolerant
236072_PM_at	---	---	0.00164	1.69	Normal up vs Off IS Tolerant
233563_PM_s_at	CPSF3L	cleavage and polyadenylation specific factor 3-like	0.00164	1.34	Normal up vs Off IS Tolerant
204520_PM_x_at	BRD1	bromodomain containing 1	0.00165	1.69	Normal up vs Off IS Tolerant
230729_PM_at	---	---	0.00165	1.54	Normal up vs Off IS Tolerant

235165_PM_at	PARD6B	par-6 partitioning defective 6 homolog beta (C. elegans)	0.00165	1.31	Normal up vs Off IS Tolerant
205353_PM_s_at	PEBP1	phosphatidylethanolamine binding protein 1	0.00165	1.37	Normal up vs Off IS Tolerant
1560412_PM_at	---	---	0.00165	-1.34	Normal down vs Off IS Tolerant
1554776_PM_at	ZFP42	zinc finger protein 42 homolog (mouse)	0.00165	-1.30	Normal down vs Off IS Tolerant
223307_PM_at	CDCA3	cell division cycle associated 3	0.00165	-1.31	Normal down vs Off IS Tolerant
238640_PM_at	C1orf212	chromosome 1 open reading frame 212	0.00165	-1.24	Normal down vs Off IS Tolerant
239265_PM_at	TMEM20	transmembrane protein 20	0.00165	1.29	Normal up vs Off IS Tolerant
202201_PM_at	BLVRB	biliverdin reductase B (flavin reductase (NADPH))	0.00165	-1.67	Normal down vs Off IS Tolerant
213857_PM_s_at	CD47	CD47 molecule	0.00165	1.14	Normal up vs Off IS Tolerant
203305_PM_at	F13A1	coagulation factor XIII, A1 polypeptide	0.00165	1.65	Normal up vs Off IS Tolerant
231054_PM_at	SPACA4	sperm acrosome associated 4	0.00165	-1.23	Normal down vs Off IS Tolerant
206909_PM_at	---	---	0.00166	-1.30	Normal down vs Off IS Tolerant
221498_PM_at	SNX27	sorting nexin family member 27	0.00166	-1.55	Normal down vs Off IS Tolerant
209517_PM_s_at	ASH2L	ash2 (absent, small, or homeotic)-like (Drosophila)	0.00166	-1.41	Normal down vs Off IS Tolerant
226823_PM_at	PHACTR4	phosphatase and actin regulator 4	0.00166	1.23	Normal up vs Off IS Tolerant
238417_PM_at	PGM2L1	phosphoglucomutase 2-like 1	0.00166	1.63	Normal up vs Off IS Tolerant
229135_PM_at	FASTKD2	FAST kinase domains 2	0.00166	1.40	Normal up vs Off IS Tolerant
237092_PM_at	---	---	0.00166	-1.37	Normal down vs Off IS Tolerant
1569253_PM_at	INTS4	integrator complex subunit 4	0.00166	1.28	Normal up vs Off IS Tolerant
240451_PM_at	---	---	0.00166	1.87	Normal up vs Off IS Tolerant
238125_PM_at	ADAMTS16	ADAM metallopeptidase with thrombospondin type 1 motif, 16	0.00166	-1.24	Normal down vs Off IS Tolerant

209180_PM_at	RABGGTB	Rab geranylgeranyltransferase, beta subunit	0.00166	1.36	Normal up vs Off IS Tolerant
229657_PM_at	THRB	thyroid hormone receptor, beta (erythroblastic leukemia viral (v-erb-a) oncogene homolo	0.00167	-1.21	Normal down vs Off IS Tolerant
210911_PM_at	ID2B	inhibitor of DNA binding 2B, dominant negative helix-loop-helix protein (pseudogene)	0.00167	1.22	Normal up vs Off IS Tolerant
226665_PM_at	AHSA2	AHA1, activator of heat shock 90kDa protein ATPase homolog 2 (yeast)	0.00167	2.16	Normal up vs Off IS Tolerant
219189_PM_at	FBXL6	F-box and leucine-rich repeat protein 6	0.00167	1.40	Normal up vs Off IS Tolerant
201862_PM_s_at	LRRFIP1	leucine rich repeat (in FLII) interacting protein 1	0.00167	1.33	Normal up vs Off IS Tolerant
230410_PM_at	---	---	0.00167	-1.34	Normal down vs Off IS Tolerant
223641_PM_at	---	---	0.00168	1.69	Normal up vs Off IS Tolerant
53720_PM_at	C19orf66	chromosome 19 open reading frame 66	0.00168	1.27	Normal up vs Off IS Tolerant
203278_PM_s_at	PHF21A	PHD finger protein 21A	0.00168	-1.25	Normal down vs Off IS Tolerant
204336_PM_s_at	RGS19	regulator of G-protein signaling 19	0.00169	-1.33	Normal down vs Off IS Tolerant
210987_PM_x_at	TPM1	tropomyosin 1 (alpha)	0.00169	1.82	Normal up vs Off IS Tolerant
205373_PM_at	CTNNA2	catenin (cadherin-associated protein), alpha 2	0.00169	-1.70	Normal down vs Off IS Tolerant
225898_PM_at	WDR54	WD repeat domain 54	0.00169	1.42	Normal up vs Off IS Tolerant
215023_PM_s_at	PEX1	peroxisomal biogenesis factor 1	0.00169	1.60	Normal up vs Off IS Tolerant
204593_PM_s_at	SMCR7L	Smith-Magenis syndrome chromosome region, candidate 7-like	0.00169	1.63	Normal up vs Off IS Tolerant
222939_PM_s_at	SLC16A10	solute carrier family 16, member 10 (aromatic amino acid transporter)	0.00169	1.40	Normal up vs Off IS Tolerant
221669_PM_s_at	ACAD8	acyl-CoA dehydrogenase family, member 8	0.00169	1.53	Normal up vs Off IS Tolerant
1552687_PM_a_at	C20orf152	chromosome 20 open reading frame 152	0.00170	-1.24	Normal down vs Off IS Tolerant

242284_PM_at	LOC199899	hypothetical protein LOC199899	0.00170	-1.44	Normal down vs Off IS Tolerant
1556339_PM_a_at	---	---	0.00170	1.70	Normal up vs Off IS Tolerant
236107_PM_at	UBE2Z	ubiquitin-conjugating enzyme E2Z	0.00171	1.50	Normal up vs Off IS Tolerant
214548_PM_x_at	GNAS	GNAS complex locus	0.00171	1.19	Normal up vs Off IS Tolerant
226452_PM_at	PDK1	pyruvate dehydrogenase kinase, isozyme 1	0.00171	1.70	Normal up vs Off IS Tolerant
1560469_PM_at	NR5A2	nuclear receptor subfamily 5, group A, member 2	0.00171	-1.34	Normal down vs Off IS Tolerant
1566491_PM_at	---	---	0.00171	1.59	Normal up vs Off IS Tolerant
209708_PM_at	MOXD1	monooxygenase, DBH-like 1	0.00171	-1.50	Normal down vs Off IS Tolerant
227740_PM_at	UHMK1	U2AF homology motif (UHM) kinase 1	0.00172	-1.39	Normal down vs Off IS Tolerant
1554242_PM_a_at	COCH	coagulation factor C homolog, cochlin (Limulus polyphemus)	0.00172	1.39	Normal up vs Off IS Tolerant
226681_PM_at	---	---	0.00172	-1.42	Normal down vs Off IS Tolerant
227668_PM_at	C17orf56	chromosome 17 open reading frame 56	0.00172	1.36	Normal up vs Off IS Tolerant
223949_PM_at	TMPRSS3	transmembrane protease, serine 3	0.00172	-1.38	Normal down vs Off IS Tolerant
220998_PM_s_at	UNC93B1	unc-93 homolog B1 (C. elegans)	0.00172	-1.37	Normal down vs Off IS Tolerant
213619_PM_at	HNRNPH1	Heterogeneous nuclear ribonucleoprotein H1 (H)	0.00172	-1.43	Normal down vs Off IS Tolerant
221152_PM_at	COL8A1	collagen, type VIII, alpha 1	0.00173	-1.27	Normal down vs Off IS Tolerant
205240_PM_at	GPSM2	G-protein signaling modulator 2	0.00173	-1.27	Normal down vs Off IS Tolerant
200924_PM_s_at	SLC3A2	solute carrier family 3 (activators of dibasic and neutral amino acid transport), membe	0.00173	1.35	Normal up vs Off IS Tolerant
214744_PM_s_at	RPL23	ribosomal protein L23	0.00173	1.62	Normal up vs Off IS Tolerant
241777_PM_x_at	---	---	0.00173	1.56	Normal up vs Off IS Tolerant

236079_PM_at	DKFZp667E0512	hypothetical protein DKFZp667E0512	0.00173	1.68	Normal up vs Off IS Tolerant
216060_PM_s_at	DAAM1	dishevelled associated activator of morphogenesis 1	0.00173	1.59	Normal up vs Off IS Tolerant
229489_PM_at	---	---	0.00174	-1.33	Normal down vs Off IS Tolerant
209337_PM_at	PSIP1	PC4 and SFRS1 interacting protein 1	0.00174	1.46	Normal up vs Off IS Tolerant
202858_PM_at	U2AF1	U2 small nuclear RNA auxiliary factor 1	0.00174	-1.30	Normal down vs Off IS Tolerant
218454_PM_at	PLBD1	phospholipase B domain containing 1	0.00174	-1.67	Normal down vs Off IS Tolerant
201018_PM_at	EIF1AX	eukaryotic translation initiation factor 1A, X-linked	0.00174	1.55	Normal up vs Off IS Tolerant
216342_PM_x_at	---	---	0.00174	1.31	Normal up vs Off IS Tolerant
243491_PM_at	---	---	0.00175	1.44	Normal up vs Off IS Tolerant
1557141_PM_at	AQP1 /// FAM188B	aquaporin 1 (Colton blood group) /// family with sequence similarity 188, member B	0.00175	-1.43	Normal down vs Off IS Tolerant
203086_PM_at	KIF2A	kinesin heavy chain member 2A	0.00175	1.73	Normal up vs Off IS Tolerant
1559992_PM_a_at	LOC100505967	hypothetical LOC100505967	0.00175	-1.48	Normal down vs Off IS Tolerant
211893_PM_x_at	CD6	CD6 molecule	0.00175	1.56	Normal up vs Off IS Tolerant
232596_PM_at	DIAPH3	diaphanous homolog 3 (Drosophila)	0.00175	-1.28	Normal down vs Off IS Tolerant
1552931_PM_a_at	PDE8A	phosphodiesterase 8A	0.00176	1.63	Normal up vs Off IS Tolerant
1558094_PM_s_at	C3orf19	chromosome 3 open reading frame 19	0.00176	1.49	Normal up vs Off IS Tolerant
215045_PM_at	CELF3	CUGBP, Elav-like family member 3	0.00176	-1.30	Normal down vs Off IS Tolerant
223614_PM_at	MMP16	matrix metalloproteinase 16 (membrane-inserted)	0.00177	-1.46	Normal down vs Off IS Tolerant
1565306_PM_a_at	SLC8A1	solute carrier family 8 (sodium/calcium exchanger), member 1	0.00177	-1.45	Normal down vs Off IS Tolerant
213627_PM_at	MAGED2	melanoma antigen family D, 2	0.00177	1.20	Normal up vs Off IS Tolerant
1569417_PM_at	---	---	0.00177	-1.29	Normal down vs Off IS Tolerant

226533_PM_at	HINT3	histidine triad nucleotide binding protein 3	0.00177	1.67	Normal up vs Off IS Tolerant
209917_PM_s_at	TP53TG1	TP53 target 1 (non-protein coding)	0.00177	1.61	Normal up vs Off IS Tolerant
203959_PM_s_at	ZBTB40	zinc finger and BTB domain containing 40	0.00178	1.31	Normal up vs Off IS Tolerant
238486_PM_at	FRS2	fibroblast growth factor receptor substrate 2	0.00178	1.45	Normal up vs Off IS Tolerant
205222_PM_at	EHHADH	enoyl-CoA, hydratase/3-hydroxyacyl CoA dehydrogenase	0.00178	-1.21	Normal down vs Off IS Tolerant
37966_PM_at	PARVB	parvin, beta	0.00178	1.73	Normal up vs Off IS Tolerant
1567628_PM_at	CD74	CD74 molecule, major histocompatibility complex, class II invariant chain	0.00178	-1.84	Normal down vs Off IS Tolerant
212550_PM_at	STAT5B	signal transducer and activator of transcription 5B	0.00178	1.42	Normal up vs Off IS Tolerant
203495_PM_at	LRRC14	leucine rich repeat containing 14	0.00178	1.27	Normal up vs Off IS Tolerant
235058_PM_at	---	---	0.00179	1.48	Normal up vs Off IS Tolerant
239988_PM_at	---	---	0.00179	1.51	Normal up vs Off IS Tolerant
201511_PM_at	AAMP	angio-associated, migratory cell protein	0.00179	-1.29	Normal down vs Off IS Tolerant
234021_PM_at	EML2	Echinoderm microtubule associated protein like 2	0.00179	-1.40	Normal down vs Off IS Tolerant
1552323_PM_s_at	FAM122C	family with sequence similarity 122C	0.00179	1.66	Normal up vs Off IS Tolerant
225012_PM_at	HDLBP	high density lipoprotein binding protein	0.00180	1.35	Normal up vs Off IS Tolerant
235601_PM_at	---	---	0.00180	-1.77	Normal down vs Off IS Tolerant
204320_PM_at	COL11A1	collagen, type XI, alpha 1	0.00180	-1.35	Normal down vs Off IS Tolerant
1570210_PM_x_at	PPP6R2	protein phosphatase 6, regulatory subunit 2	0.00180	1.57	Normal up vs Off IS Tolerant
235581_PM_at	---	---	0.00180	1.47	Normal up vs Off IS Tolerant
205333_PM_s_at	RCE1	RCE1 homolog, prenyl protein peptidase (<i>S. cerevisiae</i>)	0.00180	1.27	Normal up vs Off IS Tolerant
1558410_PM_s_at	---	---	0.00180	1.78	Normal up vs Off IS Tolerant

209680_PM_s_at	KIFC1	kinesin family member C1	0.00180	-1.33	Normal down vs Off IS Tolerant
238843_PM_at	NPHP1	nephronophthisis 1 (juvenile)	0.00180	-1.46	Normal down vs Off IS Tolerant
231779_PM_at	IRAK2	interleukin-1 receptor-associated kinase 2	0.00180	2.14	Normal up vs Off IS Tolerant
1560282_PM_at	---	---	0.00180	-1.50	Normal down vs Off IS Tolerant
214909_PM_s_at	DDAH2	dimethylarginine dimethylaminohydrolase 2	0.00180	-1.69	Normal down vs Off IS Tolerant
1555262_PM_a_at	MAGI1	membrane associated guanylate kinase, WW and PDZ domain containing 1	0.00181	-1.39	Normal down vs Off IS Tolerant
226436_PM_at	RASSF4	Ras association (RalGDS/AF-6) domain family member 4	0.00181	-1.55	Normal down vs Off IS Tolerant
202573_PM_at	CSNK1G2	casein kinase 1, gamma 2	0.00181	1.19	Normal up vs Off IS Tolerant
229262_PM_at	LRRC68	leucine rich repeat containing 68	0.00181	1.28	Normal up vs Off IS Tolerant
229218_PM_at	COL1A2	collagen, type I, alpha 2	0.00181	-1.63	Normal down vs Off IS Tolerant
236539_PM_at	PTPN22	protein tyrosine phosphatase, non-receptor type 22 (lymphoid)	0.00181	1.64	Normal up vs Off IS Tolerant
203089_PM_s_at	HTRA2	HtrA serine peptidase 2	0.00181	1.61	Normal up vs Off IS Tolerant
228828_PM_at	---	---	0.00181	1.58	Normal up vs Off IS Tolerant
1556046_PM_a_at	LOC157627	hypothetical LOC157627	0.00181	-1.46	Normal down vs Off IS Tolerant
207405_PM_s_at	RAD17	RAD17 homolog (S. pombe)	0.00181	1.46	Normal up vs Off IS Tolerant
244065_PM_at	LOC643792	contactin associated protein-like 3 pseudogene	0.00182	-1.64	Normal down vs Off IS Tolerant
1564339_PM_a_at	CHRM3	cholinergic receptor, muscarinic 3	0.00182	-1.24	Normal down vs Off IS Tolerant
213566_PM_at	RNASE6	ribonuclease, RNase A family, k6	0.00182	-1.52	Normal down vs Off IS Tolerant
209910_PM_at	SLC25A16	solute carrier family 25 (mitochondrial carrier; Graves disease autoantigen), member 16	0.00182	1.24	Normal up vs Off IS Tolerant

220132_PM_s_at	CLEC2D	C-type lectin domain family 2, member D	0.00183	1.83	Normal up vs Off IS Tolerant
220035_PM_at	NUP210	nucleoporin 210kDa	0.00183	1.62	Normal up vs Off IS Tolerant
215849_PM_x_at	TTC18	tetratricopeptide repeat domain 18	0.00183	-1.62	Normal down vs Off IS Tolerant
1559578_PM_at	---	---	0.00183	-1.26	Normal down vs Off IS Tolerant
218446_PM_s_at	FAM18B1	family with sequence similarity 18, member B1	0.00183	1.63	Normal up vs Off IS Tolerant
216473_PM_x_at	DUX4 /// DUX4L2 /// DUX4L3 /// DUX4L4 /// DUX4L5 /// DUX4L6 /// DUX4L7	double homeobox 4 /// double homeobox 4 like 2 /// double homeobox 4 like 3 /// double	0.00183	-1.56	Normal down vs Off IS Tolerant
229909_PM_at	B4GALNT3	beta-1,4-N-acetyl-galactosaminyl transferase 3	0.00183	-1.28	Normal down vs Off IS Tolerant
241311_PM_at	---	---	0.00183	-1.32	Normal down vs Off IS Tolerant
205262_PM_at	KCNH2	potassium voltage-gated channel, subfamily H (eag-related), member 2	0.00183	1.24	Normal up vs Off IS Tolerant
235598_PM_at	SMAD2	SMAD family member 2	0.00184	-1.52	Normal down vs Off IS Tolerant
218780_PM_at	HOOK2	hook homolog 2 (Drosophila)	0.00184	1.37	Normal up vs Off IS Tolerant
229922_PM_at	GPRIN1	G protein regulated inducer of neurite outgrowth 1	0.00184	-1.23	Normal down vs Off IS Tolerant
238372_PM_s_at	---	---	0.00184	-1.26	Normal down vs Off IS Tolerant
202792_PM_s_at	PPP6R2	protein phosphatase 6, regulatory subunit 2	0.00184	1.39	Normal up vs Off IS Tolerant
209221_PM_s_at	OSBPL2	oxysterol binding protein-like 2	0.00185	1.37	Normal up vs Off IS Tolerant
226635_PM_at	LOC401504	hypothetical LOC401504	0.00185	1.34	Normal up vs Off IS Tolerant
214760_PM_at	ZNF337	zinc finger protein 337	0.00185	1.37	Normal up vs Off IS Tolerant
237098_PM_at	C1orf21	Chromosome 1 open reading frame 21	0.00185	-1.26	Normal down vs Off IS Tolerant

1556352_PM_at	---	---	0.00185	-1.91	Normal down vs Off IS Tolerant
1557744_PM_at	---	---	0.00185	1.32	Normal up vs Off IS Tolerant
220144_PM_s_at	ANKRD5	ankyrin repeat domain 5	0.00185	1.38	Normal up vs Off IS Tolerant
233228_PM_at	---	---	0.00185	-1.77	Normal down vs Off IS Tolerant
234906_PM_at	---	---	0.00186	-2.52	Normal down vs Off IS Tolerant
232240_PM_at	DNHD1	dynein heavy chain domain 1	0.00186	1.38	Normal up vs Off IS Tolerant
1569911_PM_at	---	---	0.00186	-1.54	Normal down vs Off IS Tolerant
230156_PM_x_at	CHD2	Chromodomain helicase DNA binding protein 2	0.00186	1.43	Normal up vs Off IS Tolerant
222322_PM_at	---	---	0.00186	-1.57	Normal down vs Off IS Tolerant
214803_PM_at	CDH6	cadherin 6, type 2, K-cadherin (fetal kidney)	0.00186	-2.25	Normal down vs Off IS Tolerant
204860_PM_s_at	LOC100510692 /// NAIP	baculoviral IAP repeat-containing protein 1-like /// NLR family, apoptosis inhibitory p	0.00186	-1.68	Normal down vs Off IS Tolerant
208793_PM_x_at	SMARCA4	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a	0.00187	1.57	Normal up vs Off IS Tolerant
1568755_PM_a_at	---	---	0.00187	-1.27	Normal down vs Off IS Tolerant
227865_PM_at	C9orf103	chromosome 9 open reading frame 103	0.00187	1.43	Normal up vs Off IS Tolerant
210739_PM_x_at	SLC4A4	solute carrier family 4, sodium bicarbonate cotransporter, member 4	0.00187	-3.01	Normal down vs Off IS Tolerant
204377_PM_s_at	VPRBP	Vpr (HIV-1) binding protein	0.00187	1.34	Normal up vs Off IS Tolerant
244703_PM_x_at	IPO9	importin 9	0.00187	1.36	Normal up vs Off IS Tolerant
225367_PM_at	PGM2	phosphoglucomutase 2	0.00187	-1.44	Normal down vs Off IS Tolerant
214908_PM_s_at	TRRAP	transformation/transcription domain-associated protein	0.00187	1.54	Normal up vs Off IS Tolerant

208752_PM_x_at	NAP1L1	nucleosome assembly protein 1-like 1	0.00188	1.24	Normal up vs Off IS Tolerant
1557823_PM_s_at	LOC401134	hypothetical LOC401134	0.00188	-1.26	Normal down vs Off IS Tolerant
218932_PM_at	ZNHIT6	zinc finger, HIT-type containing 6	0.00188	1.60	Normal up vs Off IS Tolerant
237333_PM_at	RBBP4	retinoblastoma binding protein 4	0.00188	1.45	Normal up vs Off IS Tolerant
243127_PM_x_at	DNASE1	deoxyribonuclease I	0.00189	-1.34	Normal down vs Off IS Tolerant
51192_PM_at	SSH3	slingshot homolog 3 (Drosophila)	0.00190	-1.21	Normal down vs Off IS Tolerant
220180_PM_at	CCDC68	coiled-coil domain containing 68	0.00190	-1.50	Normal down vs Off IS Tolerant
224721_PM_at	WDR75	WD repeat domain 75	0.00190	1.51	Normal up vs Off IS Tolerant
201432_PM_at	CAT	catalase	0.00190	-1.36	Normal down vs Off IS Tolerant
238861_PM_at	SSBP2	single-stranded DNA binding protein 2	0.00190	1.70	Normal up vs Off IS Tolerant
212371_PM_at	PPPDE1	PPPDE peptidase domain containing 1	0.00190	1.25	Normal up vs Off IS Tolerant
241312_PM_at	---	---	0.00190	-1.51	Normal down vs Off IS Tolerant
38892_PM_at	KIAA0240	KIAA0240	0.00191	1.38	Normal up vs Off IS Tolerant
210962_PM_s_at	AKAP9	A kinase (PRKA) anchor protein (yotiao) 9	0.00191	1.26	Normal up vs Off IS Tolerant
242325_PM_at	YWHAH	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta polypeptide	0.00191	1.41	Normal up vs Off IS Tolerant
213989_PM_x_at	SETD4	SET domain containing 4	0.00191	1.55	Normal up vs Off IS Tolerant
1553211_PM_at	ANKFN1	ankyrin-repeat and fibronectin type III domain containing 1	0.00191	-1.29	Normal down vs Off IS Tolerant
1560439_PM_at	LINGO3	leucine rich repeat and Ig domain containing 3	0.00191	-1.35	Normal down vs Off IS Tolerant
221428_PM_s_at	TBL1XR1	transducin (beta)-like 1 X-linked receptor 1	0.00191	1.48	Normal up vs Off IS Tolerant
226838_PM_at	TTC32	tetratricopeptide repeat domain 32	0.00191	1.43	Normal up vs Off IS Tolerant
237319_PM_at	C2orf53	chromosome 2 open reading frame 53	0.00191	-1.26	Normal down vs Off IS Tolerant

1559623_PM_at	C11orf54	Chromosome 11 open reading frame 54	0.00192	-1.66	Normal down vs Off IS Tolerant
1557146_PM_a_at	LOC146336	hypothetical LOC146336	0.00192	-1.28	Normal down vs Off IS Tolerant
241644_PM_at	BOLA2	bolA homolog 2 (E. coli)	0.00192	-1.36	Normal down vs Off IS Tolerant
223669_PM_at	HEMGN	hemogen	0.00192	2.47	Normal up vs Off IS Tolerant
218586_PM_at	C20orf20	chromosome 20 open reading frame 20	0.00193	1.57	Normal up vs Off IS Tolerant
232342_PM_at	MTMR14	myotubularin related protein 14	0.00193	1.97	Normal up vs Off IS Tolerant
208067_PM_x_at	UTY	ubiquitously transcribed tetratricopeptide repeat gene, Y-linked	0.00193	-3.57	Normal down vs Off IS Tolerant
208730_PM_x_at	RAB2A	RAB2A, member RAS oncogene family	0.00193	-1.55	Normal down vs Off IS Tolerant
203760_PM_s_at	SLA	Src-like-adaptor	0.00193	-1.36	Normal down vs Off IS Tolerant
1566269_PM_at	RALGAPA1	Ral GTPase activating protein, alpha subunit 1 (catalytic)	0.00193	-1.82	Normal down vs Off IS Tolerant
241846_PM_at	---	---	0.00193	-1.34	Normal down vs Off IS Tolerant
220602_PM_s_at	LOC388152 /// LOC727751 /// LOC727849 /// LOC80154	hypothetical LOC388152 /// hypothetical LOC727751 /// golgin A2 pseudogene /// hypothet	0.00193	1.39	Normal up vs Off IS Tolerant
201864_PM_at	GDI1	GDP dissociation inhibitor 1	0.00193	1.28	Normal up vs Off IS Tolerant
221593_PM_s_at	RPL31	ribosomal protein L31	0.00193	1.37	Normal up vs Off IS Tolerant
226901_PM_at	C17orf58	chromosome 17 open reading frame 58	0.00193	1.70	Normal up vs Off IS Tolerant
1557567_PM_a_at	LOC100507634 /// LOC148987	hypothetical LOC100507634 /// hypothetical protein LOC148987	0.00194	1.27	Normal up vs Off IS Tolerant
241464_PM_s_at	LOC400931	hypothetical LOC400931	0.00194	-1.21	Normal down vs Off IS Tolerant
216014_PM_s_at	ZXDA /// ZXDB	zinc finger, X-linked, duplicated A /// zinc finger, X-linked, duplicated B	0.00194	1.27	Normal up vs Off IS Tolerant

201834_PM_at	PRKAB1	protein kinase, AMP-activated, beta 1 non-catalytic subunit	0.00194	1.31	Normal up vs Off IS Tolerant
209977_PM_at	PLG	plasminogen	0.00195	-1.26	Normal down vs Off IS Tolerant
221645_PM_s_at	ZNF83	zinc finger protein 83	0.00195	1.57	Normal up vs Off IS Tolerant
224480_PM_s_at	AGPAT9	1-acylglycerol-3-phosphate O-acyltransferase 9	0.00195	-1.71	Normal down vs Off IS Tolerant
214634_PM_at	---	---	0.00195	-1.38	Normal down vs Off IS Tolerant
225820_PM_at	PHF17	PHD finger protein 17	0.00196	1.52	Normal up vs Off IS Tolerant
220935_PM_s_at	CDK5RAP2	CDK5 regulatory subunit associated protein 2	0.00196	1.34	Normal up vs Off IS Tolerant
205670_PM_at	GAL3ST1	galactose-3-O-sulfotransferase 1	0.00196	-1.21	Normal down vs Off IS Tolerant
218067_PM_s_at	ARGLU1	arginine and glutamate rich 1	0.00196	1.23	Normal up vs Off IS Tolerant
215657_PM_at	SLC26A3	Solute carrier family 26, member 3	0.00196	-1.46	Normal down vs Off IS Tolerant
242627_PM_at	---	---	0.00196	-1.30	Normal down vs Off IS Tolerant
236149_PM_at	---	---	0.00196	1.42	Normal up vs Off IS Tolerant
229418_PM_at	C17orf63	chromosome 17 open reading frame 63	0.00196	1.24	Normal up vs Off IS Tolerant
212995_PM_x_at	MZT2B	mitotic spindle organizing protein 2B	0.00197	1.33	Normal up vs Off IS Tolerant
226137_PM_at	ZFHX3	zinc finger homeobox 3	0.00197	-1.48	Normal down vs Off IS Tolerant
208332_PM_at	PRY /// PRY2	PTPN13-like, Y-linked /// PTPN13-like, Y-linked 2	0.00197	-1.58	Normal down vs Off IS Tolerant
219502_PM_at	NEIL3	nei endonuclease VIII-like 3 (E. coli)	0.00197	-1.62	Normal down vs Off IS Tolerant
205669_PM_at	NCAM2	neural cell adhesion molecule 2	0.00198	-1.84	Normal down vs Off IS Tolerant
1552952_PM_at	RBMV2FP	RNA binding motif protein, Y-linked, family 2, member F pseudogene	0.00198	-1.48	Normal down vs Off IS Tolerant
239248_PM_at	---	---	0.00198	-1.29	Normal down vs Off IS Tolerant

201074_PM_at	SMARCC1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily c	0.00198	1.27	Normal up vs Off IS Tolerant
1561606_PM_at	---	---	0.00198	-1.33	Normal down vs Off IS Tolerant
221375_PM_at	OR1G1	olfactory receptor, family 1, subfamily G, member 1	0.00199	-1.21	Normal down vs Off IS Tolerant
204279_PM_at	PSMB9	proteasome (prosome, macropain) subunit, beta type, 9 (large multifunctional peptidase)	0.00199	-1.39	Normal down vs Off IS Tolerant
211632_PM_at	IGHD /// IGHG1 /// IGHM	immunoglobulin heavy constant delta /// immunoglobulin heavy constant gamma 1 (G1m mark)	0.00199	-1.23	Normal down vs Off IS Tolerant
220130_PM_x_at	LTB4R2	leukotriene B4 receptor 2	0.00199	-1.29	Normal down vs Off IS Tolerant
223075_PM_s_at	AIF1L	allograft inflammatory factor 1-like	0.00200	-1.28	Normal down vs Off IS Tolerant
1561473_PM_at	---	---	0.00200	-1.65	Normal down vs Off IS Tolerant
203969_PM_at	PEX3	peroxisomal biogenesis factor 3	0.00201	1.39	Normal up vs Off IS Tolerant
224239_PM_at	DEFB103A /// DEFB103B	defensin, beta 103A /// defensin, beta 103B	0.00201	-1.44	Normal down vs Off IS Tolerant
238127_PM_at	FLJ41484	hypothetical LOC650669	0.00201	1.77	Normal up vs Off IS Tolerant
201873_PM_s_at	ABCE1	ATP-binding cassette, sub-family E (OABP), member 1	0.00201	1.37	Normal up vs Off IS Tolerant
225642_PM_at	KTI12	KTI12 homolog, chromatin associated (S. cerevisiae)	0.00202	1.66	Normal up vs Off IS Tolerant
215841_PM_at	GUCA1B	guanylate cyclase activator 1B (retina)	0.00202	-1.31	Normal down vs Off IS Tolerant
231963_PM_at	ANKRD33B	ankyrin repeat domain 33B	0.00202	1.67	Normal up vs Off IS Tolerant
1567611_PM_at	---	---	0.00202	-1.50	Normal down vs Off IS Tolerant
1553166_PM_at	CDH24	cadherin 24, type 2	0.00202	-1.35	Normal down vs Off IS Tolerant

236063_PM_at	---	---	0.00202	-1.25	Normal down vs Off IS Tolerant
234053_PM_at	---	---	0.00202	-1.30	Normal down vs Off IS Tolerant
1558304_PM_s_at	TSEN54	tRNA splicing endonuclease 54 homolog (S. cerevisiae)	0.00202	1.46	Normal up vs Off IS Tolerant
208498_PM_s_at	AMY1A /// AMY1B /// AMY1C /// AMY2A	amylase, alpha 1A (salivary) /// amylase, alpha 1B (salivary) /// amylase, alpha 1C (sa	0.00202	1.47	Normal up vs Off IS Tolerant
224370_PM_s_at	CAPS2	calcyphosine 2	0.00203	-1.55	Normal down vs Off IS Tolerant
222346_PM_at	LAMA1	laminin, alpha 1	0.00203	-1.25	Normal down vs Off IS Tolerant
205859_PM_at	LY86	lymphocyte antigen 86	0.00203	-1.46	Normal down vs Off IS Tolerant
212247_PM_at	NUP205	nucleoporin 205kDa	0.00204	1.26	Normal up vs Off IS Tolerant
232556_PM_at	---	---	0.00204	-1.88	Normal down vs Off IS Tolerant
202840_PM_at	TAF15	TAF15 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 68kDa	0.00204	-1.30	Normal down vs Off IS Tolerant
225353_PM_s_at	C1QC	complement component 1, q subcomponent, C chain	0.00204	-1.42	Normal down vs Off IS Tolerant
1563706_PM_at	---	---	0.00204	-1.46	Normal down vs Off IS Tolerant
210844_PM_x_at	CTNNA1	catenin (cadherin-associated protein), alpha 1, 102kDa	0.00205	-1.36	Normal down vs Off IS Tolerant
207834_PM_at	FBLN1	fibulin 1	0.00205	-1.26	Normal down vs Off IS Tolerant
209918_PM_at	GGTLC2	gamma-glutamyltransferase light chain 2	0.00205	-1.31	Normal down vs Off IS Tolerant
244425_PM_at	---	---	0.00205	1.81	Normal up vs Off IS Tolerant
209006_PM_s_at	C1orf63	chromosome 1 open reading frame 63	0.00205	1.66	Normal up vs Off IS Tolerant
213660_PM_s_at	TOP3B	topoisomerase (DNA) III beta	0.00205	1.46	Normal up vs Off IS Tolerant

218719_PM_s_at	GIN53	GIN5 complex subunit 3 (Psf3 homolog)	0.00206	-1.42	Normal down vs Off IS Tolerant
229002_PM_at	FAM69B	family with sequence similarity 69, member B	0.00206	1.50	Normal up vs Off IS Tolerant
244614_PM_at	TFG	TRK-fused gene	0.00206	-1.62	Normal down vs Off IS Tolerant
235347_PM_at	LRCH3	leucine-rich repeats and calponin homology (CH) domain containing 3	0.00206	1.94	Normal up vs Off IS Tolerant
243693_PM_at	---	---	0.00206	-1.33	Normal down vs Off IS Tolerant
201345_PM_s_at	UBE2D2	ubiquitin-conjugating enzyme E2D 2 (UBC4/5 homolog, yeast)	0.00206	1.22	Normal up vs Off IS Tolerant
224114_PM_at	---	---	0.00206	-1.81	Normal down vs Off IS Tolerant
243970_PM_at	LOC100130642	hypothetical LOC100130642	0.00206	-1.28	Normal down vs Off IS Tolerant
230018_PM_at	DPP9	dipeptidyl-peptidase 9	0.00206	1.25	Normal up vs Off IS Tolerant
205238_PM_at	TRMT2B	TRM2 tRNA methyltransferase 2 homolog B (S. cerevisiae)	0.00206	1.37	Normal up vs Off IS Tolerant
234369_PM_at	OR4F16 /// OR4F21 /// OR4F29 /// OR4F3	olfactory receptor, family 4, subfamily F, member 16 /// olfactory receptor, family 4,	0.00206	-3.08	Normal down vs Off IS Tolerant
1553234_PM_at	ADAMTS18	ADAM metallopeptidase with thrombospondin type 1 motif, 18	0.00207	1.25	Normal up vs Off IS Tolerant
222990_PM_at	UBQLN1	ubiquilin 1	0.00207	1.20	Normal up vs Off IS Tolerant
205973_PM_at	FEZ1	fasciculation and elongation protein zeta 1 (zygin I)	0.00207	-1.24	Normal down vs Off IS Tolerant
1557283_PM_a_at	ZNF519	zinc finger protein 519	0.00207	-1.58	Normal down vs Off IS Tolerant
212326_PM_at	VPS13D	vacuolar protein sorting 13 homolog D (S. cerevisiae)	0.00207	1.45	Normal up vs Off IS Tolerant
1563975_PM_at	RNF130	Ring finger protein 130	0.00207	-1.58	Normal down vs Off IS Tolerant
206786_PM_at	HTN3	histatin 3	0.00208	-1.42	Normal down vs Off IS Tolerant

212914_PM_at	CBX7	chromobox homolog 7	0.00208	1.42	Normal up vs Off IS Tolerant
216788_PM_at	---	---	0.00208	-1.41	Normal down vs Off IS Tolerant
207760_PM_s_at	NCOR2	nuclear receptor corepressor 2	0.00208	1.28	Normal up vs Off IS Tolerant
1555220_PM_a_at	AKR1E2	aldo-keto reductase family 1, member E2	0.00208	1.22	Normal up vs Off IS Tolerant
1569354_PM_at	NSUN6	NOP2/Sun domain family, member 6	0.00208	1.64	Normal up vs Off IS Tolerant
226252_PM_at	---	---	0.00209	1.37	Normal up vs Off IS Tolerant
213880_PM_at	LGR5	leucine-rich repeat-containing G protein-coupled receptor 5	0.00209	-1.57	Normal down vs Off IS Tolerant
1552386_PM_at	GAPT	GRB2-binding adaptor protein, transmembrane	0.00209	-2.27	Normal down vs Off IS Tolerant
212454_PM_x_at	HNRPDL	heterogeneous nuclear ribonucleoprotein D-like	0.00209	1.36	Normal up vs Off IS Tolerant
239152_PM_at	---	---	0.00210	-1.39	Normal down vs Off IS Tolerant
1557710_PM_at	---	---	0.00210	-1.60	Normal down vs Off IS Tolerant
244079_PM_at	LOC100129335	leucine-rich repeat-containing protein ENSP00000371558	0.00210	-1.24	Normal down vs Off IS Tolerant
206938_PM_at	SRD5A2	steroid-5-alpha-reductase, alpha polypeptide 2 (3-oxo-5 alpha-steroid delta 4-dehydroge	0.00210	-1.26	Normal down vs Off IS Tolerant
222881_PM_at	HPSE	heparanase	0.00210	-1.72	Normal down vs Off IS Tolerant
206139_PM_at	PI4KB	phosphatidylinositol 4-kinase, catalytic, beta	0.00210	1.24	Normal up vs Off IS Tolerant
231146_PM_at	FAM24B	family with sequence similarity 24, member B	0.00211	1.44	Normal up vs Off IS Tolerant
244462_PM_at	ZNF224	zinc finger protein 224	0.00211	1.52	Normal up vs Off IS Tolerant
233221_PM_at	DEFB118	defensin, beta 118	0.00211	-1.29	Normal down vs Off IS Tolerant
223801_PM_s_at	APOL4	apolipoprotein L, 4	0.00211	-1.32	Normal down vs Off IS Tolerant

232275_PM_s_at	HS6ST3	heparan sulfate 6-O-sulfotransferase 3	0.00211	-1.29	Normal down vs Off IS Tolerant
243275_PM_at	---	---	0.00211	-1.39	Normal down vs Off IS Tolerant
241323_PM_at	---	---	0.00211	-1.44	Normal down vs Off IS Tolerant
241211_PM_at	---	---	0.00211	-1.21	Normal down vs Off IS Tolerant
217533_PM_x_at	---	---	0.00211	-1.26	Normal down vs Off IS Tolerant
203403_PM_s_at	RNF6	ring finger protein (C3H2C3 type) 6	0.00211	1.41	Normal up vs Off IS Tolerant
232161_PM_x_at	---	---	0.00212	1.62	Normal up vs Off IS Tolerant
219093_PM_at	PID1	phosphotyrosine interaction domain containing 1	0.00212	-2.11	Normal down vs Off IS Tolerant
211946_PM_s_at	BAT2L2	HLA-B associated transcript 2-like 2	0.00212	1.18	Normal up vs Off IS Tolerant
1569688_PM_at	FMO5	flavin containing monooxygenase 5	0.00212	-1.39	Normal down vs Off IS Tolerant
228370_PM_at	LOC100506948	hypothetical LOC100506948	0.00213	1.61	Normal up vs Off IS Tolerant
219346_PM_at	LRFN3	leucine rich repeat and fibronectin type III domain containing 3	0.00213	1.27	Normal up vs Off IS Tolerant
1556047_PM_s_at	MAGEE1	melanoma antigen family E, 1	0.00213	1.59	Normal up vs Off IS Tolerant
230529_PM_at	HECA	headcase homolog (Drosophila)	0.00213	1.47	Normal up vs Off IS Tolerant
204080_PM_at	TOE1	target of EGR1, member 1 (nuclear)	0.00213	1.45	Normal up vs Off IS Tolerant
214911_PM_s_at	BRD2	bromodomain containing 2	0.00214	1.16	Normal up vs Off IS Tolerant
218232_PM_at	C1QA	complement component 1, q subcomponent, A chain	0.00214	-1.81	Normal down vs Off IS Tolerant
213676_PM_at	TMEM151B	transmembrane protein 151B	0.00214	-1.40	Normal down vs Off IS Tolerant
239391_PM_at	FAM120AOS	Family with sequence similarity 120A opposite strand	0.00214	1.45	Normal up vs Off IS Tolerant
230483_PM_at	---	---	0.00215	1.45	Normal up vs Off IS Tolerant
216460_PM_at	LOC100288594	hypothetical LOC100288594	0.00215	-1.34	Normal down vs Off IS Tolerant
244616_PM_x_at	MDM2	Mdm2 p53 binding protein homolog (mouse)	0.00215	-1.54	Normal down vs Off IS Tolerant

213185_PM_at	KIAA0556	KIAA0556	0.00215	1.42	Normal up vs Off IS Tolerant
201534_PM_s_at	UBL3	ubiquitin-like 3	0.00215	1.50	Normal up vs Off IS Tolerant
210817_PM_s_at	CALCOCO2	calcium binding and coiled-coil domain 2	0.00216	-1.22	Normal down vs Off IS Tolerant
234548_PM_at	---	---	0.00216	-1.29	Normal down vs Off IS Tolerant
207514_PM_s_at	GNAT1	guanine nucleotide binding protein (G protein), alpha transducing activity polypeptide	0.00216	-1.24	Normal down vs Off IS Tolerant
241784_PM_x_at	HELQ	helicase, POLQ-like	0.00217	-1.92	Normal down vs Off IS Tolerant
238334_PM_at	SPRN	Shadow of prion protein homolog (zebrafish)	0.00217	-1.31	Normal down vs Off IS Tolerant
221206_PM_at	PMS2 /// PMS2CL	PMS2 postmeiotic segregation increased 2 (<i>S. cerevisiae</i>) /// PMS2 C-terminal like pseud	0.00217	1.39	Normal up vs Off IS Tolerant
201852_PM_x_at	COL3A1	collagen, type III, alpha 1	0.00217	-1.34	Normal down vs Off IS Tolerant
243608_PM_at	COG2	component of oligomeric golgi complex 2	0.00217	1.33	Normal up vs Off IS Tolerant
209299_PM_x_at	PPIL2	peptidylprolyl isomerase (cyclophilin)-like 2	0.00218	1.35	Normal up vs Off IS Tolerant
1561132_PM_at	DHX35	DEAH (Asp-Glu-Ala-His) box polypeptide 35	0.00218	-1.25	Normal down vs Off IS Tolerant
205608_PM_s_at	ANGPT1	angiopoietin 1	0.00218	-1.32	Normal down vs Off IS Tolerant
206678_PM_at	GABRA1	gamma-aminobutyric acid (GABA) A receptor, alpha 1	0.00218	-1.60	Normal down vs Off IS Tolerant
208139_PM_s_at	---	---	0.00219	-1.32	Normal down vs Off IS Tolerant
214221_PM_at	ALMS1	Alstrom syndrome 1	0.00219	1.45	Normal up vs Off IS Tolerant
238206_PM_at	RXFP1	relaxin/insulin-like family peptide receptor 1	0.00219	-1.25	Normal down vs Off IS Tolerant
1563860_PM_at	LOC400965	hypothetical LOC400965	0.00219	-1.20	Normal down vs Off IS Tolerant

203527_PM_s_at	APC	adenomatous polyposis coli	0.00219	-1.20	Normal down vs Off IS Tolerant
202152_PM_x_at	USF2	upstream transcription factor 2, c-fos interacting	0.00220	1.28	Normal up vs Off IS Tolerant
213777_PM_s_at	---	---	0.00220	-1.27	Normal down vs Off IS Tolerant
218641_PM_at	C11orf95	chromosome 11 open reading frame 95	0.00220	1.32	Normal up vs Off IS Tolerant
215922_PM_at	REPS1	RALBP1 associated Eps domain containing 1	0.00220	1.30	Normal up vs Off IS Tolerant
214364_PM_at	MTERFD2	MTERF domain containing 2	0.00220	1.57	Normal up vs Off IS Tolerant
204219_PM_s_at	PSMC1	proteasome (prosome, macropain) 26S subunit, ATPase, 1	0.00221	-1.14	Normal down vs Off IS Tolerant
240633_PM_at	DOK7	docking protein 7	0.00221	1.33	Normal up vs Off IS Tolerant
1555212_PM_at	OR8B8	olfactory receptor, family 8, subfamily B, member 8	0.00221	-1.30	Normal down vs Off IS Tolerant
218386_PM_x_at	USP16	ubiquitin specific peptidase 16	0.00221	1.37	Normal up vs Off IS Tolerant
218632_PM_at	HECTD3	HECT domain containing 3	0.00222	1.37	Normal up vs Off IS Tolerant
213980_PM_s_at	CTBP1	C-terminal binding protein 1	0.00222	1.22	Normal up vs Off IS Tolerant
211383_PM_s_at	WDR37	WD repeat domain 37	0.00222	1.23	Normal up vs Off IS Tolerant
223179_PM_at	YPEL3	yippee-like 3 (Drosophila)	0.00222	1.42	Normal up vs Off IS Tolerant
230974_PM_at	DDX19B	DEAD (Asp-Glu-Ala-As) box polypeptide 19B	0.00222	1.46	Normal up vs Off IS Tolerant
225483_PM_at	VPS26B	vacuolar protein sorting 26 homolog B (S. pombe)	0.00223	1.45	Normal up vs Off IS Tolerant
230852_PM_at	STAC3	SH3 and cysteine rich domain 3	0.00223	-1.53	Normal down vs Off IS Tolerant
211101_PM_x_at	LILRA2	leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 2	0.00224	-1.51	Normal down vs Off IS Tolerant
224723_PM_x_at	LOC401397	hypothetical LOC401397	0.00224	-1.34	Normal down vs Off IS Tolerant
237555_PM_at	CARS2	cysteinyl-tRNA synthetase 2, mitochondrial (putative)	0.00225	-1.40	Normal down vs Off IS Tolerant
222111_PM_at	---	---	0.00225	1.81	Normal up vs Off IS Tolerant

226434_PM_at	C7orf47	chromosome 7 open reading frame 47	0.00225	1.30	Normal up vs Off IS Tolerant
225446_PM_at	BRWD1	bromodomain and WD repeat domain containing 1	0.00225	1.54	Normal up vs Off IS Tolerant
241150_PM_at	SPTAN1	Spectrin, alpha, non-erythrocytic 1 (alpha-fodrin)	0.00225	1.40	Normal up vs Off IS Tolerant
206726_PM_at	HPGDS	hematopoietic prostaglandin D synthase	0.00226	-1.33	Normal down vs Off IS Tolerant
223204_PM_at	FAM198B	family with sequence similarity 198, member B	0.00226	-1.68	Normal down vs Off IS Tolerant
237697_PM_at	LOC100509002	hypothetical LOC100509002	0.00226	-1.23	Normal down vs Off IS Tolerant
241084_PM_x_at	DYNC1H1	dynein, cytoplasmic 1, heavy chain 1	0.00226	-1.23	Normal down vs Off IS Tolerant
226900_PM_at	LOC100129387	hypothetical LOC100129387	0.00226	1.28	Normal up vs Off IS Tolerant
1553002_PM_at	DEFB105A /// DEFB105B	defensin, beta 105A /// defensin, beta 105B	0.00226	-1.36	Normal down vs Off IS Tolerant
212989_PM_at	SGMS1	sphingomyelin synthase 1	0.00227	1.73	Normal up vs Off IS Tolerant
238043_PM_at	ARID1B	AT rich interactive domain 1B (SWI1-like)	0.00227	1.49	Normal up vs Off IS Tolerant
219173_PM_at	MYO15B	myosin XVB pseudogene	0.00227	1.58	Normal up vs Off IS Tolerant
230650_PM_at	---	---	0.00227	-1.54	Normal down vs Off IS Tolerant
1553280_PM_at	PUS10	pseudouridylate synthase 10	0.00227	-1.22	Normal down vs Off IS Tolerant
239945_PM_at	---	---	0.00227	-1.57	Normal down vs Off IS Tolerant
1552287_PM_s_at	AFG3L1P	AFG3 ATPase family gene 3-like 1 (S. cerevisiae), pseudogene	0.00227	1.46	Normal up vs Off IS Tolerant
225376_PM_at	C20orf11	chromosome 20 open reading frame 11	0.00228	1.33	Normal up vs Off IS Tolerant
203195_PM_s_at	NUP98	nucleoporin 98kDa	0.00228	1.41	Normal up vs Off IS Tolerant
1566637_PM_at	---	---	0.00228	-1.82	Normal down vs Off IS Tolerant
203021_PM_at	SLPI	secretory leukocyte peptidase inhibitor	0.00228	-1.28	Normal down vs Off IS Tolerant

212294_PM_at	GNG12	guanine nucleotide binding protein (G protein), gamma 12	0.00228	-1.95	Normal down vs Off IS Tolerant
201640_PM_x_at	CLPTM1	cleft lip and palate associated transmembrane protein 1	0.00228	-1.27	Normal down vs Off IS Tolerant
221854_PM_at	PKP1	plakophilin 1 (ectodermal dysplasia/skin fragility syndrome)	0.00228	-1.20	Normal down vs Off IS Tolerant
60815_PM_at	POLR2J4	polymerase (RNA) II (DNA directed) polypeptide J4, pseudogene	0.00229	1.67	Normal up vs Off IS Tolerant
212860_PM_at	ZDHC18	zinc finger, DHHC-type containing 18	0.00229	1.27	Normal up vs Off IS Tolerant
226951_PM_at	C2orf49	chromosome 2 open reading frame 49	0.00229	1.43	Normal up vs Off IS Tolerant
219497_PM_s_at	BCL11A	B-cell CLL/lymphoma 11A (zinc finger protein)	0.00229	-1.57	Normal down vs Off IS Tolerant
233206_PM_at	SLC22A23	solute carrier family 22, member 23	0.00229	-1.32	Normal down vs Off IS Tolerant
213873_PM_at	---	---	0.00229	-1.31	Normal down vs Off IS Tolerant
212567_PM_s_at	MAP4	microtubule-associated protein 4	0.00229	1.26	Normal up vs Off IS Tolerant
222612_PM_at	PSPC1	Paraspeckle component 1	0.00230	1.42	Normal up vs Off IS Tolerant
223174_PM_at	BTBD10	BTB (POZ) domain containing 10	0.00230	-1.24	Normal down vs Off IS Tolerant
209993_PM_at	ABCB1	ATP-binding cassette, sub-family B (MDR/TAP), member 1	0.00230	1.91	Normal up vs Off IS Tolerant
209943_PM_at	FBXL4	F-box and leucine-rich repeat protein 4	0.00230	-1.69	Normal down vs Off IS Tolerant
208044_PM_s_at	PPARD	peroxisome proliferator-activated receptor delta	0.00231	1.28	Normal up vs Off IS Tolerant
223947_PM_s_at	MED23	mediator complex subunit 23	0.00231	1.44	Normal up vs Off IS Tolerant
226202_PM_at	ZNF398	zinc finger protein 398	0.00231	1.65	Normal up vs Off IS Tolerant
223358_PM_s_at	PDE7A	phosphodiesterase 7A	0.00232	1.57	Normal up vs Off IS Tolerant
1552263_PM_at	MAPK1	mitogen-activated protein kinase 1	0.00232	-1.50	Normal down vs Off IS Tolerant
203052_PM_at	C2	complement component 2	0.00232	-1.44	Normal down vs Off IS Tolerant
1561161_PM_at	---	---	0.00232	-1.60	Normal down vs Off IS Tolerant

225073_PM_at	PPHLN1	periphilin 1	0.00232	1.26	Normal up vs Off IS Tolerant
1553647_PM_at	CDYL2	chromodomain protein, Y-like 2	0.00233	-1.57	Normal down vs Off IS Tolerant
211982_PM_x_at	XPO6	exportin 6	0.00233	1.17	Normal up vs Off IS Tolerant
208336_PM_s_at	TECR	trans-2,3-enoyl-CoA reductase	0.00233	1.48	Normal up vs Off IS Tolerant
214158_PM_s_at	PRDM10	PR domain containing 10	0.00233	-1.26	Normal down vs Off IS Tolerant
236998_PM_at	CCDC56	Coiled-coil domain containing 56	0.00234	-1.27	Normal down vs Off IS Tolerant
224809_PM_x_at	TINF2	TERF1 (TRF1)-interacting nuclear factor 2	0.00234	-1.19	Normal down vs Off IS Tolerant
1555253_PM_at	COL25A1	collagen, type XXV, alpha 1	0.00234	-1.43	Normal down vs Off IS Tolerant
242424_PM_at	---	---	0.00234	1.53	Normal up vs Off IS Tolerant
227675_PM_at	LRSAM1	leucine rich repeat and sterile alpha motif containing 1	0.00234	1.29	Normal up vs Off IS Tolerant
226433_PM_at	RNF157	ring finger protein 157	0.00234	2.03	Normal up vs Off IS Tolerant
209282_PM_at	PRKD2	protein kinase D2	0.00234	1.40	Normal up vs Off IS Tolerant
204772_PM_s_at	TTF1	transcription termination factor, RNA polymerase I	0.00234	1.53	Normal up vs Off IS Tolerant
232311_PM_at	B2M	Beta-2-microglobulin	0.00234	1.51	Normal up vs Off IS Tolerant
205115_PM_s_at	RBM19	RNA binding motif protein 19	0.00235	1.33	Normal up vs Off IS Tolerant
1563333_PM_at	---	---	0.00235	-1.27	Normal down vs Off IS Tolerant
203761_PM_at	SLA	Src-like-adaptor	0.00235	-1.42	Normal down vs Off IS Tolerant
1568900_PM_a_at	ZNF568	zinc finger protein 568	0.00236	1.40	Normal up vs Off IS Tolerant
212384_PM_at	ATP6V1G2 /// BAT1	ATPase, H+ transporting, lysosomal 13kDa, V1 subunit G2 /// HLA-B associated transcript	0.00236	1.64	Normal up vs Off IS Tolerant
213444_PM_at	ZNF862	zinc finger protein 862	0.00236	1.46	Normal up vs Off IS Tolerant
217729_PM_s_at	AES	amino-terminal enhancer of split	0.00237	1.35	Normal up vs Off IS Tolerant
213984_PM_at	PDS5A	PDS5, regulator of cohesion maintenance, homolog A (S. cerevisiae)	0.00237	2.05	Normal up vs Off IS Tolerant

241655_PM_at	---	---	0.00237	-1.34	Normal down vs Off IS Tolerant
1558937_PM_s_at	---	---	0.00237	-1.72	Normal down vs Off IS Tolerant
213306_PM_at	MPDZ	multiple PDZ domain protein	0.00237	-2.57	Normal down vs Off IS Tolerant
244097_PM_at	CR2	complement component (3d/Epstein Barr virus) receptor 2	0.00237	-1.45	Normal down vs Off IS Tolerant
227273_PM_at	---	---	0.00238	1.31	Normal up vs Off IS Tolerant
225497_PM_at	ATE1	arginyltransferase 1	0.00238	1.54	Normal up vs Off IS Tolerant
1569681_PM_at	---	---	0.00238	-1.53	Normal down vs Off IS Tolerant
213691_PM_at	LOC100506002	hypothetical protein LOC100506002	0.00238	1.37	Normal up vs Off IS Tolerant
231735_PM_s_at	MALAT1	metastasis associated lung adenocarcinoma transcript 1 (non-protein coding)	0.00239	-1.59	Normal down vs Off IS Tolerant
205787_PM_x_at	ZC3H11A	zinc finger CCCH-type containing 11A	0.00239	-1.43	Normal down vs Off IS Tolerant
224015_PM_s_at	MRPS25	mitochondrial ribosomal protein S25	0.00239	1.47	Normal up vs Off IS Tolerant
214539_PM_at	SERPINB10	serpin peptidase inhibitor, clade B (ovalbumin), member 10	0.00240	-1.27	Normal down vs Off IS Tolerant
204161_PM_s_at	ENPP4	ectonucleotide pyrophosphatase/phosphodiesterase 4 (putative)	0.00240	1.67	Normal up vs Off IS Tolerant
224763_PM_at	RPL37	ribosomal protein L37	0.00240	1.60	Normal up vs Off IS Tolerant
1557581_PM_x_at	---	---	0.00240	1.40	Normal up vs Off IS Tolerant
208079_PM_s_at	AURKA	aurora kinase A	0.00240	-1.32	Normal down vs Off IS Tolerant
219138_PM_at	RPL14	ribosomal protein L14	0.00240	-1.39	Normal down vs Off IS Tolerant
201314_PM_at	STK25	serine/threonine kinase 25	0.00240	1.46	Normal up vs Off IS Tolerant
244873_PM_s_at	---	---	0.00240	1.43	Normal up vs Off IS Tolerant
244436_PM_at	---	---	0.00241	-1.30	Normal down vs Off IS Tolerant
214742_PM_at	AZI1	5-azacytidine induced 1	0.00241	1.35	Normal up vs Off IS Tolerant

218788_PM_s_at	SMYD3	SET and MYND domain containing 3	0.00241	1.53	Normal up vs Off IS Tolerant
1556936_PM_at	---	---	0.00241	-1.87	Normal down vs Off IS Tolerant
205864_PM_at	SLC7A4	solute carrier family 7 (cationic amino acid transporter, y+ system), member 4	0.00242	-1.22	Normal down vs Off IS Tolerant
208883_PM_at	UBR5	ubiquitin protein ligase E3 component n-recognin 5	0.00242	1.45	Normal up vs Off IS Tolerant
233693_PM_at	C1orf201	chromosome 1 open reading frame 201	0.00242	-1.29	Normal down vs Off IS Tolerant
237347_PM_at	---	---	0.00242	1.29	Normal up vs Off IS Tolerant
1569679_PM_at	CDH22	cadherin 22, type 2	0.00242	-1.51	Normal down vs Off IS Tolerant
225055_PM_at	LOC100499466	hypothetical LOC100499466	0.00242	1.63	Normal up vs Off IS Tolerant
1558803_PM_at	---	---	0.00243	-1.26	Normal down vs Off IS Tolerant
221606_PM_s_at	HMG5	high-mobility group nucleosome binding domain 5	0.00243	1.37	Normal up vs Off IS Tolerant
214032_PM_at	ZAP70	zeta-chain (TCR) associated protein kinase 70kDa	0.00243	1.65	Normal up vs Off IS Tolerant
205383_PM_s_at	ZBTB20	zinc finger and BTB domain containing 20	0.00243	1.33	Normal up vs Off IS Tolerant
242965_PM_at	---	---	0.00243	1.45	Normal up vs Off IS Tolerant
1554239_PM_s_at	ZADH2	zinc binding alcohol dehydrogenase domain containing 2	0.00243	1.40	Normal up vs Off IS Tolerant
236651_PM_at	KALRN	kalirin, RhoGEF kinase	0.00243	-1.21	Normal down vs Off IS Tolerant
219773_PM_at	NOX4	NADPH oxidase 4	0.00243	-1.93	Normal down vs Off IS Tolerant
227454_PM_at	TAOK1	TAO kinase 1	0.00243	-1.46	Normal down vs Off IS Tolerant
235149_PM_at	PGM2L1	phosphoglucomutase 2-like 1	0.00243	-1.37	Normal down vs Off IS Tolerant
227378_PM_x_at	C16orf13	chromosome 16 open reading frame 13	0.00244	1.36	Normal up vs Off IS Tolerant

226164_PM_x_at	RIMKLB	Ribosomal modification protein rimK-like family member B	0.00244	1.45	Normal up vs Off IS Tolerant
232726_PM_at	---	---	0.00244	-1.82	Normal down vs Off IS Tolerant
235526_PM_at	SOX6	SRY (sex determining region Y)-box 6	0.00244	1.44	Normal up vs Off IS Tolerant
240791_PM_at	---	---	0.00245	-1.28	Normal down vs Off IS Tolerant
208107_PM_s_at	LOC81691	exonuclease NEF-sp	0.00245	-1.23	Normal down vs Off IS Tolerant
233231_PM_at	MCCC2	Methylcrotonoyl-Coenzyme A carboxylase 2 (beta)	0.00245	1.36	Normal up vs Off IS Tolerant
212381_PM_at	USP24	ubiquitin specific peptidase 24	0.00245	1.53	Normal up vs Off IS Tolerant
221856_PM_s_at	FAM63A	family with sequence similarity 63, member A	0.00245	1.37	Normal up vs Off IS Tolerant
219126_PM_at	PHF10	PHD finger protein 10	0.00245	1.23	Normal up vs Off IS Tolerant
241058_PM_at	---	---	0.00246	-1.39	Normal down vs Off IS Tolerant
217762_PM_s_at	RAB31	RAB31, member RAS oncogene family	0.00246	-1.37	Normal down vs Off IS Tolerant
201762_PM_s_at	PSME2	proteasome (prosome, macropain) activator subunit 2 (PA28 beta)	0.00246	-1.22	Normal down vs Off IS Tolerant
237581_PM_at	---	---	0.00246	-1.22	Normal down vs Off IS Tolerant
207221_PM_at	F2RL3	coagulation factor II (thrombin) receptor-like 3	0.00246	-1.18	Normal down vs Off IS Tolerant
1555555_PM_at	BBS9	Bardet-Biedl syndrome 9	0.00246	-1.36	Normal down vs Off IS Tolerant
212808_PM_at	NFATC2IP	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 interacting p	0.00246	1.68	Normal up vs Off IS Tolerant
221959_PM_at	FAM110B	family with sequence similarity 110, member B	0.00247	-1.44	Normal down vs Off IS Tolerant
204265_PM_s_at	GPSM3	G-protein signaling modulator 3	0.00247	-1.24	Normal down vs Off IS Tolerant
227189_PM_at	CPNE5	copine V	0.00247	1.49	Normal up vs Off IS Tolerant

233744_PM_at	---	---	0.00247	-1.34	Normal down vs Off IS Tolerant
1552910_PM_at	SIGLEC11	sialic acid binding Ig-like lectin 11	0.00248	-1.36	Normal down vs Off IS Tolerant
210864_PM_x_at	HFE	hemochromatosis	0.00248	-1.25	Normal down vs Off IS Tolerant
219570_PM_at	KIF16B	kinesin family member 16B	0.00249	1.55	Normal up vs Off IS Tolerant
1560735_PM_s_at	LOC727924	hypothetical LOC727924	0.00249	-1.45	Normal down vs Off IS Tolerant
226655_PM_at	STX17	syntaxin 17	0.00249	1.36	Normal up vs Off IS Tolerant
237314_PM_at	ENKUR	enkurin, TRPC channel interacting protein	0.00250	1.46	Normal up vs Off IS Tolerant
1559252_PM_a_at	C20orf29	Chromosome 20 open reading frame 29	0.00250	1.75	Normal up vs Off IS Tolerant
236876_PM_at	H1FNT	H1 histone family, member N, testis-specific	0.00251	-1.28	Normal down vs Off IS Tolerant
234057_PM_at	---	---	0.00251	-1.98	Normal down vs Off IS Tolerant
228292_PM_at	---	---	0.00251	1.36	Normal up vs Off IS Tolerant
244131_PM_at	HNRNPA2B1	heterogeneous nuclear ribonucleoprotein A2/B1	0.00251	-1.29	Normal down vs Off IS Tolerant
236919_PM_at	---	---	0.00251	-1.32	Normal down vs Off IS Tolerant
227085_PM_at	H2AFV	H2A histone family, member V	0.00251	1.46	Normal up vs Off IS Tolerant
208307_PM_at	RBMY1A1 /// RBMY1D	RNA binding motif protein, Y-linked, family 1, member A1 /// RNA binding motif protein,	0.00251	-2.02	Normal down vs Off IS Tolerant
235320_PM_at	ARL6 /// LOC100506362	ADP-ribosylation factor-like 6 /// hypothetical LOC100506362	0.00251	-1.56	Normal down vs Off IS Tolerant
1558117_PM_s_at	USP31	ubiquitin specific peptidase 31	0.00252	-1.31	Normal down vs Off IS Tolerant
236436_PM_at	SLC25A45	solute carrier family 25, member 45	0.00252	1.42	Normal up vs Off IS Tolerant
215816_PM_at	LOC91316	glucuronidase, beta/immunoglobulin lambda-like polypeptide 1 pseudogene	0.00252	-1.32	Normal down vs Off IS Tolerant
239543_PM_s_at	---	---	0.00252	1.54	Normal up vs Off IS Tolerant

210148_PM_at	HIPK3	homeodomain interacting protein kinase 3	0.00253	-1.50	Normal down vs Off IS Tolerant
233356_PM_at	---	---	0.00254	-1.44	Normal down vs Off IS Tolerant
206019_PM_at	RBM19	RNA binding motif protein 19	0.00254	1.47	Normal up vs Off IS Tolerant
213481_PM_at	LOC100510626 /// S100A13	hypothetical LOC100510626 /// S100 calcium binding protein A13	0.00254	-1.25	Normal down vs Off IS Tolerant
219259_PM_at	SEMA4A	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic	0.00254	-1.41	Normal down vs Off IS Tolerant
226881_PM_at	GRPEL2	GrpE-like 2, mitochondrial (E. coli)	0.00254	1.51	Normal up vs Off IS Tolerant
228384_PM_s_at	PYROXD2	pyridine nucleotide-disulphide oxidoreductase domain 2	0.00254	1.40	Normal up vs Off IS Tolerant
240635_PM_at	---	---	0.00255	-1.41	Normal down vs Off IS Tolerant
1562982_PM_at	---	---	0.00255	-1.85	Normal down vs Off IS Tolerant
218675_PM_at	SLC22A17	solute carrier family 22, member 17	0.00255	1.31	Normal up vs Off IS Tolerant
215684_PM_s_at	ASCC2	activating signal cointegrator 1 complex subunit 2	0.00255	1.50	Normal up vs Off IS Tolerant
203356_PM_at	CAPN7	calpain 7	0.00255	1.53	Normal up vs Off IS Tolerant
214740_PM_at	POLR2J /// POLR2J2 /// POLR2J3	polymerase (RNA) II (DNA directed) polypeptide J, 13.3kDa /// polymerase (RNA) II (DNA	0.00256	1.39	Normal up vs Off IS Tolerant
217494_PM_s_at	PTENP1	phosphatase and tensin homolog pseudogene 1	0.00256	-1.38	Normal down vs Off IS Tolerant
39835_PM_at	SBF1	SET binding factor 1	0.00256	1.45	Normal up vs Off IS Tolerant
208780_PM_x_at	VAPA	VAMP (vesicle-associated membrane protein)-associated protein A, 33kDa	0.00256	-1.21	Normal down vs Off IS Tolerant
235754_PM_at	HFE	hemochromatosis	0.00256	-1.39	Normal down vs Off IS Tolerant
204928_PM_s_at	SLC10A3	solute carrier family 10 (sodium/bile acid cotransporter family), member 3	0.00257	1.42	Normal up vs Off IS Tolerant
237974_PM_at	ABHD12B	abhydrolase domain containing 12B	0.00257	-1.26	Normal down vs Off IS Tolerant

222148_PM_s_at	RHOT1	ras homolog gene family, member T1	0.00257	-1.30	Normal down vs Off IS Tolerant
1570262_PM_at	---	---	0.00257	-1.27	Normal down vs Off IS Tolerant
202521_PM_at	CTCF	CCCTC-binding factor (zinc finger protein)	0.00257	1.30	Normal up vs Off IS Tolerant
242704_PM_at	ZNF821	zinc finger protein 821	0.00257	-1.23	Normal down vs Off IS Tolerant
231823_PM_s_at	SH3PXD2B	SH3 and PX domains 2B	0.00258	-1.22	Normal down vs Off IS Tolerant
1557628_PM_s_at	LOC283745	hypothetical protein LOC283745	0.00258	-1.28	Normal down vs Off IS Tolerant
238879_PM_at	DCUN1D1	DCN1, defective in cullin neddylation 1, domain containing 1 (<i>S. cerevisiae</i>)	0.00258	1.52	Normal up vs Off IS Tolerant
202210_PM_x_at	GSK3A	glycogen synthase kinase 3 alpha	0.00258	-1.34	Normal down vs Off IS Tolerant
218018_PM_at	PDXK	pyridoxal (pyridoxine, vitamin B6) kinase	0.00258	-1.37	Normal down vs Off IS Tolerant
1559039_PM_at	DHX36	DEAH (Asp-Glu-Ala-His) box polypeptide 36	0.00258	1.84	Normal up vs Off IS Tolerant
233380_PM_s_at	RUFY1	RUN and FYVE domain containing 1	0.00259	1.49	Normal up vs Off IS Tolerant
215931_PM_s_at	ARFGEF2	ADP-ribosylation factor guanine nucleotide-exchange factor 2 (brefeldin A inhibited)	0.00259	1.45	Normal up vs Off IS Tolerant
224510_PM_s_at	CLPB	ClpB caseinolytic peptidase B homolog (<i>E. coli</i>)	0.00259	-1.24	Normal down vs Off IS Tolerant
235679_PM_at	---	---	0.00259	1.42	Normal up vs Off IS Tolerant
218625_PM_at	NRN1	neuritin 1	0.00259	-1.42	Normal down vs Off IS Tolerant
202304_PM_at	FNDC3A	fibronectin type III domain containing 3A	0.00259	1.48	Normal up vs Off IS Tolerant
1555662_PM_s_at	DAOA	D-amino acid oxidase activator	0.00260	-1.37	Normal down vs Off IS Tolerant
232048_PM_at	FAM76B	family with sequence similarity 76, member B	0.00260	1.54	Normal up vs Off IS Tolerant

218064_PM_s_at	AKAP8L	A kinase (PRKA) anchor protein 8-like	0.00260	1.51	Normal up vs Off IS Tolerant
1559127_PM_x_at	RRP12	ribosomal RNA processing 12 homolog (S. cerevisiae)	0.00260	1.33	Normal up vs Off IS Tolerant
244020_PM_at	---	---	0.00261	1.41	Normal up vs Off IS Tolerant
226687_PM_at	PRPF40A	PRP40 pre-mRNA processing factor 40 homolog A (S. cerevisiae)	0.00261	1.33	Normal up vs Off IS Tolerant
229248_PM_at	---	---	0.00261	1.36	Normal up vs Off IS Tolerant
1559159_PM_at	CEP68	centrosomal protein 68kDa	0.00261	1.20	Normal up vs Off IS Tolerant
227567_PM_at	LOC100499466	hypothetical LOC100499466	0.00261	1.38	Normal up vs Off IS Tolerant
206582_PM_s_at	GPR56	G protein-coupled receptor 56	0.00261	-1.31	Normal down vs Off IS Tolerant
1556292_PM_s_at	POM121L12	POM121 membrane glycoprotein-like 12	0.00262	-1.33	Normal down vs Off IS Tolerant
208919_PM_s_at	NADK	NAD kinase	0.00262	-1.35	Normal down vs Off IS Tolerant
242857_PM_at	---	---	0.00262	-1.48	Normal down vs Off IS Tolerant
238351_PM_x_at	---	---	0.00262	-1.29	Normal down vs Off IS Tolerant
216528_PM_at	---	---	0.00262	-1.29	Normal down vs Off IS Tolerant
41397_PM_at	ZNF821	zinc finger protein 821	0.00262	1.31	Normal up vs Off IS Tolerant
222605_PM_at	RCOR3	REST corepressor 3	0.00263	1.31	Normal up vs Off IS Tolerant
1561134_PM_at	---	---	0.00263	-1.40	Normal down vs Off IS Tolerant
43977_PM_at	TMEM161A	transmembrane protein 161A	0.00263	1.22	Normal up vs Off IS Tolerant
212849_PM_at	AXIN1	axin 1	0.00263	1.28	Normal up vs Off IS Tolerant
230496_PM_at	FAM123A	family with sequence similarity 123A	0.00263	-1.47	Normal down vs Off IS Tolerant
229670_PM_at	---	---	0.00263	-1.69	Normal down vs Off IS Tolerant
AFFX-r2-Ec-bioB-5_at	---	---	0.00263	-1.95	Normal down vs Off IS Tolerant
221427_PM_s_at	CCNL2	cyclin L2	0.00264	1.45	Normal up vs Off IS Tolerant
207315_PM_at	CD226	CD226 molecule	0.00264	1.52	Normal up vs Off IS Tolerant

216650_PM_at	---	---	0.00264	1.24	Normal up vs Off IS Tolerant
232822_PM_x_at	---	---	0.00264	-1.45	Normal down vs Off IS Tolerant
216302_PM_at	HNRNPC /// HNRNPCL1 /// LOC440563 /// LOC649330	heterogeneous nuclear ribonucleoprotein C (C1/C2) /// heterogeneous nuclear ribonucleop	0.00264	-1.24	Normal down vs Off IS Tolerant
225586_PM_at	WDR85	WD repeat domain 85	0.00264	1.31	Normal up vs Off IS Tolerant
204000_PM_at	GNB5	guanine nucleotide binding protein (G protein), beta 5	0.00265	1.47	Normal up vs Off IS Tolerant
1554517_PM_x_at	LOC100288109 /// LOC203274	Hypothetical protein LOC100288109 /// Hypothetical protein LOC203274	0.00265	-1.31	Normal down vs Off IS Tolerant
238114_PM_at	---	---	0.00265	1.68	Normal up vs Off IS Tolerant
1570306_PM_at	ST18	Suppression of tumorigenicity 18 (breast carcinoma) (zinc finger protein)	0.00265	-1.33	Normal down vs Off IS Tolerant
215582_PM_x_at	MCM3AP	minichromosome maintenance complex component 3 associated protein	0.00265	-1.91	Normal down vs Off IS Tolerant
200004_PM_at	EIF4G2	eukaryotic translation initiation factor 4 gamma, 2	0.00266	1.20	Normal up vs Off IS Tolerant
234460_PM_at	---	---	0.00266	-1.24	Normal down vs Off IS Tolerant
1565778_PM_at	ABCA8	ATP-binding cassette, sub-family A (ABC1), member 8	0.00266	-1.27	Normal down vs Off IS Tolerant
1558020_PM_at	ERGIC3	ERGIC and golgi 3	0.00266	-1.27	Normal down vs Off IS Tolerant
227586_PM_at	TMEM170A	transmembrane protein 170A	0.00266	1.37	Normal up vs Off IS Tolerant
217923_PM_at	PEF1	penta-EF-hand domain containing 1	0.00266	-1.30	Normal down vs Off IS Tolerant
229426_PM_at	COX5A	cytochrome c oxidase subunit Va	0.00266	1.46	Normal up vs Off IS Tolerant
201764_PM_at	TMEM106C	transmembrane protein 106C	0.00267	1.37	Normal up vs Off IS Tolerant
1555575_PM_a_at	KDEL1	KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 1	0.00267	-1.19	Normal down vs Off IS Tolerant

1564372_PM_s_at	CASC2	cancer susceptibility candidate 2	0.00267	-1.87	Normal down vs Off IS Tolerant
242984_PM_at	MKLN1	muskelin 1, intracellular mediator containing kelch motifs	0.00268	-1.74	Normal down vs Off IS Tolerant
234400_PM_at	---	---	0.00268	-1.26	Normal down vs Off IS Tolerant
242810_PM_x_at	---	---	0.00268	-1.47	Normal down vs Off IS Tolerant
237284_PM_at	DNAJB8	DnaJ (Hsp40) homolog, subfamily B, member 8	0.00269	-1.21	Normal down vs Off IS Tolerant
200819_PM_s_at	RPS15	ribosomal protein S15	0.00269	1.20	Normal up vs Off IS Tolerant
226895_PM_at	NFIC	Nuclear factor I/C (CCAAT-binding transcription factor)	0.00269	1.38	Normal up vs Off IS Tolerant
1553126_PM_a_at	SLC39A12	solute carrier family 39 (zinc transporter), member 12	0.00270	-1.25	Normal down vs Off IS Tolerant
1560861_PM_at	---	---	0.00270	-1.33	Normal down vs Off IS Tolerant
227294_PM_at	ZNF689	zinc finger protein 689	0.00270	1.50	Normal up vs Off IS Tolerant
209072_PM_at	MBP	myelin basic protein	0.00270	1.32	Normal up vs Off IS Tolerant
1569597_PM_at	---	---	0.00270	1.52	Normal up vs Off IS Tolerant
210416_PM_s_at	CHEK2	CHK2 checkpoint homolog (S. pombe)	0.00270	-1.43	Normal down vs Off IS Tolerant
1565830_PM_at	---	---	0.00270	1.38	Normal up vs Off IS Tolerant
1557667_PM_at	---	---	0.00271	1.48	Normal up vs Off IS Tolerant
212927_PM_at	SMC5	structural maintenance of chromosomes 5	0.00271	1.28	Normal up vs Off IS Tolerant
224683_PM_at	FBXO18	F-box protein, helicase, 18	0.00271	1.30	Normal up vs Off IS Tolerant
220335_PM_x_at	CES3	carboxylesterase 3	0.00271	-1.84	Normal down vs Off IS Tolerant
233764_PM_s_at	LARP1B	La ribonucleoprotein domain family, member 1B	0.00272	-1.48	Normal down vs Off IS Tolerant
225914_PM_s_at	CAB39L	calcium binding protein 39-like	0.00272	-1.42	Normal down vs Off IS Tolerant
1555904_PM_at	---	---	0.00272	-1.36	Normal down vs Off IS Tolerant

214465_PM_at	ORM1 /// ORM2	orosomuroid 1 /// orosomuroid 2	0.00272	-1.22	Normal down vs Off IS Tolerant
229609_PM_at	LOC728190	hypothetical LOC728190	0.00272	-1.69	Normal down vs Off IS Tolerant
228170_PM_at	OLIG1	oligodendrocyte transcription factor 1	0.00272	-2.05	Normal down vs Off IS Tolerant
211469_PM_s_at	CXCR6	chemokine (C-X-C motif) receptor 6	0.00273	-1.36	Normal down vs Off IS Tolerant
220743_PM_at	---	---	0.00273	-1.26	Normal down vs Off IS Tolerant
221516_PM_s_at	SMCR7L	Smith-Magenis syndrome chromosome region, candidate 7-like	0.00273	1.29	Normal up vs Off IS Tolerant
227929_PM_at	---	---	0.00273	-1.74	Normal down vs Off IS Tolerant
208807_PM_s_at	CHD3	chromodomain helicase DNA binding protein 3	0.00274	1.31	Normal up vs Off IS Tolerant
229796_PM_at	SIX4	SIX homeobox 4	0.00274	-1.90	Normal down vs Off IS Tolerant
223176_PM_at	KCTD20	potassium channel tetramerisation domain containing 20	0.00274	1.69	Normal up vs Off IS Tolerant
235676_PM_at	---	---	0.00274	1.28	Normal up vs Off IS Tolerant
1561271_PM_at	CCDC144C	coiled-coil domain containing 144C	0.00274	-2.12	Normal down vs Off IS Tolerant
225573_PM_at	ACAD11 /// NPHP3	acyl-CoA dehydrogenase family, member 11 /// nephronophthisis 3 (adolescent)	0.00274	1.40	Normal up vs Off IS Tolerant
235903_PM_at	ANKS6	ankyrin repeat and sterile alpha motif domain containing 6	0.00275	1.29	Normal up vs Off IS Tolerant
228068_PM_at	GOLGA7B	golgin A7 family, member B	0.00275	1.40	Normal up vs Off IS Tolerant
234915_PM_s_at	DENR	density-regulated protein	0.00275	1.51	Normal up vs Off IS Tolerant
218487_PM_at	ALAD	aminolevulinatase dehydratase	0.00275	1.43	Normal up vs Off IS Tolerant
231555_PM_at	---	---	0.00275	-1.27	Normal down vs Off IS Tolerant

216497_PM_at	HNRNPA1 /// HNRNPA1L2 /// HNRNPA1P10 /// HNRPA1P5 /// LOC642817	heterogeneous nuclear ribonucleoprotein A1 /// heterogeneous nuclear ribonucleoprotein	0.00275	1.25	Normal up vs Off IS Tolerant
222026_PM_at	RBM3	RNA binding motif (RNP1, RRM) protein 3	0.00275	1.62	Normal up vs Off IS Tolerant
229357_PM_at	ADAMTS5	ADAM metalloproteinase with thrombospondin type 1 motif, 5	0.00276	-1.38	Normal down vs Off IS Tolerant
240916_PM_x_at	---	---	0.00276	-1.22	Normal down vs Off IS Tolerant
203991_PM_s_at	KDM6A	lysine (K)-specific demethylase 6A	0.00276	1.49	Normal up vs Off IS Tolerant
210272_PM_at	CYP2B7P1	cytochrome P450, family 2, subfamily B, polypeptide 7 pseudogene 1	0.00276	-1.35	Normal down vs Off IS Tolerant
227755_PM_at	---	---	0.00276	1.42	Normal up vs Off IS Tolerant
220400_PM_at	VPS13B	vacuolar protein sorting 13 homolog B (yeast)	0.00276	1.25	Normal up vs Off IS Tolerant
241164_PM_at	---	---	0.00276	-1.44	Normal down vs Off IS Tolerant
58900_PM_at	UBE2D4	ubiquitin-conjugating enzyme E2D 4 (putative)	0.00277	-1.42	Normal down vs Off IS Tolerant
235936_PM_at	LOC254559	hypothetical LOC254559	0.00277	-1.18	Normal down vs Off IS Tolerant
218532_PM_s_at	FAM134B	family with sequence similarity 134, member B	0.00277	1.72	Normal up vs Off IS Tolerant
1552322_PM_at	FAM122C	family with sequence similarity 122C	0.00277	1.27	Normal up vs Off IS Tolerant
201240_PM_s_at	LOC653566 /// SPCS2	signal peptidase complex subunit 2 homolog pseudogene /// signal peptidase complex subu	0.00277	-1.35	Normal down vs Off IS Tolerant
211810_PM_s_at	GALC	galactosylceramidase	0.00277	1.89	Normal up vs Off IS Tolerant
201481_PM_s_at	PYGB	phosphorylase, glycogen; brain	0.00277	1.32	Normal up vs Off IS Tolerant
1553502_PM_a_at	PALM2	paralemmin 2	0.00277	-1.27	Normal down vs Off IS Tolerant
207327_PM_at	EYA4	eyes absent homolog 4 (Drosophila)	0.00278	-1.24	Normal down vs Off IS Tolerant

1556553_PM_at	---	---	0.00278	-1.26	Normal down vs Off IS Tolerant
221961_PM_at	CLCN7	chloride channel 7	0.00279	1.44	Normal up vs Off IS Tolerant
233020_PM_at	---	---	0.00279	-1.32	Normal down vs Off IS Tolerant
210910_PM_s_at	POMZP3	POM121 and ZP3 fusion	0.00280	1.76	Normal up vs Off IS Tolerant
213199_PM_at	C2CD3	C2 calcium-dependent domain containing 3	0.00280	1.28	Normal up vs Off IS Tolerant
215739_PM_s_at	TUBGCP3	tubulin, gamma complex associated protein 3	0.00280	1.56	Normal up vs Off IS Tolerant
217843_PM_s_at	MED4	mediator complex subunit 4	0.00280	1.26	Normal up vs Off IS Tolerant
202037_PM_s_at	SFRP1	secreted frizzled-related protein 1	0.00280	-1.25	Normal down vs Off IS Tolerant
202985_PM_s_at	BAG5	BCL2-associated athanogene 5	0.00280	1.29	Normal up vs Off IS Tolerant
213208_PM_at	KIAA0240	KIAA0240	0.00280	1.41	Normal up vs Off IS Tolerant
218795_PM_at	ACP6	acid phosphatase 6, lysophosphatidic	0.00280	1.76	Normal up vs Off IS Tolerant
204645_PM_at	CCNT2	cyclin T2	0.00280	1.75	Normal up vs Off IS Tolerant
213533_PM_at	D4S234E	DNA segment on chromosome 4 (unique) 234 expressed sequence	0.00280	1.57	Normal up vs Off IS Tolerant
221287_PM_at	RNASEL	ribonuclease L (2',5'-oligoadenylate synthetase-dependent)	0.00281	-1.30	Normal down vs Off IS Tolerant
234067_PM_at	---	---	0.00281	-1.75	Normal down vs Off IS Tolerant
225238_PM_at	MSI2	musashi homolog 2 (Drosophila)	0.00281	1.55	Normal up vs Off IS Tolerant
224620_PM_at	MAPK1	mitogen-activated protein kinase 1	0.00281	-1.35	Normal down vs Off IS Tolerant
1558791_PM_at	LOC286467	hypothetical LOC286467	0.00281	-1.38	Normal down vs Off IS Tolerant
231360_PM_at	C20orf141	chromosome 20 open reading frame 141	0.00281	-1.28	Normal down vs Off IS Tolerant
208820_PM_at	PTK2	PTK2 protein tyrosine kinase 2	0.00282	1.49	Normal up vs Off IS Tolerant
202848_PM_s_at	GRK6	G protein-coupled receptor kinase 6	0.00282	1.26	Normal up vs Off IS Tolerant
235626_PM_at	CAMK1D	calcium/calmodulin-dependent protein kinase ID	0.00282	1.41	Normal up vs Off IS Tolerant

1570257_PM_x_at	---	---	0.00282	-1.35	Normal down vs Off IS Tolerant
231073_PM_at	C1orf168	chromosome 1 open reading frame 168	0.00282	-1.23	Normal down vs Off IS Tolerant
220651_PM_s_at	MCM10	minichromosome maintenance complex component 10	0.00282	-1.26	Normal down vs Off IS Tolerant
209415_PM_at	FZR1	fizzy/cell division cycle 20 related 1 (Drosophila)	0.00283	-1.37	Normal down vs Off IS Tolerant
1570644_PM_at	---	---	0.00283	-1.38	Normal down vs Off IS Tolerant
218434_PM_s_at	AACS	acetoacetyl-CoA synthetase	0.00283	1.36	Normal up vs Off IS Tolerant
242232_PM_at	---	---	0.00284	-2.00	Normal down vs Off IS Tolerant
222642_PM_s_at	TMEM33	transmembrane protein 33	0.00284	-1.48	Normal down vs Off IS Tolerant
211658_PM_at	PRDX2	peroxiredoxin 2	0.00284	1.70	Normal up vs Off IS Tolerant
207580_PM_at	MAGEB4	melanoma antigen family B, 4	0.00284	-1.29	Normal down vs Off IS Tolerant
209255_PM_at	KLHDC10	kelch domain containing 10	0.00285	-1.76	Normal down vs Off IS Tolerant
213666_PM_at	6-Sep	septin 6	0.00285	1.50	Normal up vs Off IS Tolerant
1561137_PM_s_at	GYPE	glycophorin E (MNS blood group)	0.00286	-1.29	Normal down vs Off IS Tolerant
202148_PM_s_at	PYCR1	pyrroline-5-carboxylate reductase 1	0.00286	-1.39	Normal down vs Off IS Tolerant
240074_PM_at	---	---	0.00286	-1.19	Normal down vs Off IS Tolerant
205836_PM_s_at	YTHDC2	YTH domain containing 2	0.00286	1.60	Normal up vs Off IS Tolerant
1562879_PM_at	---	---	0.00286	-1.49	Normal down vs Off IS Tolerant
228971_PM_at	LOC100505759	hypothetical LOC100505759	0.00286	1.33	Normal up vs Off IS Tolerant
219271_PM_at	GALNT14	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 14 (Ga	0.00287	-1.31	Normal down vs Off IS Tolerant

229579_PM_s_at	DISP2	dispatched homolog 2 (Drosophila)	0.00287	-1.21	Normal down vs Off IS Tolerant
244441_PM_at	---	---	0.00287	-1.32	Normal down vs Off IS Tolerant
244042_PM_x_at	---	---	0.00287	-3.59	Normal down vs Off IS Tolerant
230615_PM_at	DUOXA2	dual oxidase maturation factor 2	0.00287	-1.34	Normal down vs Off IS Tolerant
1561096_PM_at	LOC285419	hypothetical LOC285419	0.00287	-1.45	Normal down vs Off IS Tolerant
238829_PM_at	---	---	0.00287	1.62	Normal up vs Off IS Tolerant
1564401_PM_at	LOC400748	hypothetical LOC400748	0.00287	-1.19	Normal down vs Off IS Tolerant
1555895_PM_at	DNM2	dynamin 2	0.00288	1.52	Normal up vs Off IS Tolerant
211743_PM_s_at	PRG2	proteoglycan 2, bone marrow (natural killer cell activator, eosinophil granule major ba	0.00289	-1.23	Normal down vs Off IS Tolerant
211953_PM_s_at	IPO5	importin 5	0.00289	1.54	Normal up vs Off IS Tolerant
203066_PM_at	CHST15	carbohydrate (N-acetylgalactosamine 4-sulfate 6-O) sulfotransferase 15	0.00289	-1.51	Normal down vs Off IS Tolerant
218663_PM_at	NCAPG	non-SMC condensin I complex, subunit G	0.00289	-1.42	Normal down vs Off IS Tolerant
240058_PM_at	LOC100129597	hypothetical LOC100129597	0.00289	-1.39	Normal down vs Off IS Tolerant
238325_PM_s_at	ODF3B	outer dense fiber of sperm tails 3B	0.00289	-1.41	Normal down vs Off IS Tolerant
208184_PM_s_at	TRAPPC10	trafficking protein particle complex 10	0.00289	1.29	Normal up vs Off IS Tolerant
243859_PM_at	---	---	0.00289	1.27	Normal up vs Off IS Tolerant
1563252_PM_at	ERBB3	v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian)	0.00290	-1.21	Normal down vs Off IS Tolerant
200849_PM_s_at	AHCYL1	adenosylhomocysteinase-like 1	0.00290	-1.29	Normal down vs Off IS Tolerant
226670_PM_s_at	PABPC1L	poly(A) binding protein, cytoplasmic 1-like	0.00290	1.52	Normal up vs Off IS Tolerant

240398_PM_at	---	---	0.00291	-1.27	Normal down vs Off IS Tolerant
234284_PM_at	GNG8	guanine nucleotide binding protein (G protein), gamma 8	0.00291	1.55	Normal up vs Off IS Tolerant
216430_PM_x_at	IGLV1-40 /// IGLV1-44	immunoglobulin lambda variable 1-40 /// immunoglobulin lambda variable 1-44	0.00291	-1.46	Normal down vs Off IS Tolerant
203800_PM_s_at	MRPS14	mitochondrial ribosomal protein S14	0.00291	-1.66	Normal down vs Off IS Tolerant
217138_PM_x_at	---	---	0.00292	-1.21	Normal down vs Off IS Tolerant
241748_PM_x_at	DGCR14	DiGeorge syndrome critical region gene 14	0.00292	-1.31	Normal down vs Off IS Tolerant
220740_PM_s_at	SLC12A6	solute carrier family 12 (potassium/chloride transporters), member 6	0.00292	1.81	Normal up vs Off IS Tolerant
228296_PM_at	YPEL1	yippee-like 1 (Drosophila)	0.00292	1.47	Normal up vs Off IS Tolerant
205066_PM_s_at	ENPP1	ectonucleotide pyrophosphatase/phosphodiesterase 1	0.00292	-1.43	Normal down vs Off IS Tolerant
218612_PM_s_at	TSSC4	tumor suppressing subtransferable candidate 4	0.00292	1.34	Normal up vs Off IS Tolerant
231288_PM_at	CCDC88C	coiled-coil domain containing 88C	0.00293	1.49	Normal up vs Off IS Tolerant
228805_PM_at	C5orf25	chromosome 5 open reading frame 25	0.00293	1.67	Normal up vs Off IS Tolerant
218114_PM_at	GGA1	golgi-associated, gamma adaptin ear containing, ARF binding protein 1	0.00293	1.32	Normal up vs Off IS Tolerant
212061_PM_at	SR140	U2-associated SR140 protein	0.00293	1.30	Normal up vs Off IS Tolerant
1561088_PM_at	EYA4	eyes absent homolog 4 (Drosophila)	0.00294	-1.52	Normal down vs Off IS Tolerant
1560013_PM_at	PDXDC1	pyridoxal-dependent decarboxylase domain containing 1	0.00294	1.89	Normal up vs Off IS Tolerant
203981_PM_s_at	ABCD4	ATP-binding cassette, sub-family D (ALD), member 4	0.00295	1.38	Normal up vs Off IS Tolerant
239311_PM_at	---	---	0.00295	1.45	Normal up vs Off IS Tolerant

213167_PM_s_at	SLC5A3	solute carrier family 5 (sodium/myo- inositol cotransporter), member 3	0.00295	-1.23	Normal down vs Off IS Tolerant
218865_PM_at	MOSC1	MOCO sulphurase C-terminal domain containing 1	0.00295	-1.83	Normal down vs Off IS Tolerant
203515_PM_s_at	PMVK	phosphomevalonate kinase	0.00295	-1.46	Normal down vs Off IS Tolerant
210625_PM_s_at	AKAP1	A kinase (PRKA) anchor protein 1	0.00295	1.55	Normal up vs Off IS Tolerant
204453_PM_at	ZNF84	zinc finger protein 84	0.00295	1.79	Normal up vs Off IS Tolerant
214305_PM_s_at	SF3B1	splicing factor 3b, subunit 1, 155kDa	0.00295	-1.33	Normal down vs Off IS Tolerant
222578_PM_s_at	UBA5	ubiquitin-like modifier activating enzyme 5	0.00295	1.45	Normal up vs Off IS Tolerant
237005_PM_at	LOC442075	hypothetical LOC442075	0.00296	1.44	Normal up vs Off IS Tolerant
1563370_PM_at	---	---	0.00296	1.22	Normal up vs Off IS Tolerant
224288_PM_x_at	FKSG49	FKSG49	0.00296	-1.83	Normal down vs Off IS Tolerant
244431_PM_at	KILLIN	killin protein	0.00296	-1.29	Normal down vs Off IS Tolerant
1553677_PM_a_at	TIPRL	TIP41, TOR signaling pathway regulator- like (<i>S. cerevisiae</i>)	0.00296	-1.47	Normal down vs Off IS Tolerant
209334_PM_s_at	PSMD9	proteasome (prosome, macropain) 26S subunit, non-ATPase, 9	0.00297	1.51	Normal up vs Off IS Tolerant
226120_PM_at	TTC8	tetratricopeptide repeat domain 8	0.00297	1.27	Normal up vs Off IS Tolerant
209356_PM_x_at	EFEMP2	EGF-containing fibulin-like extracellular matrix protein 2	0.00297	1.26	Normal up vs Off IS Tolerant
1566825_PM_at	---	---	0.00297	-1.70	Normal down vs Off IS Tolerant
242612_PM_at	---	---	0.00298	1.56	Normal up vs Off IS Tolerant
218035_PM_s_at	RBM47	RNA binding motif protein 47	0.00298	-1.52	Normal down vs Off IS Tolerant
201365_PM_at	OAZ2	ornithine decarboxylase antizyme 2	0.00298	-1.62	Normal down vs Off IS Tolerant
224579_PM_at	SLC38A1	solute carrier family 38, member 1	0.00298	1.46	Normal up vs Off IS Tolerant
1564083_PM_at	---	---	0.00298	-1.44	Normal down vs Off IS Tolerant

233629_PM_at	---	---	0.00298	-1.26	Normal down vs Off IS Tolerant
221104_PM_s_at	NIPSNAP3B	nipsnap homolog 3B (C. elegans)	0.00298	-2.29	Normal down vs Off IS Tolerant
235394_PM_at	PLAA	phospholipase A2-activating protein	0.00299	1.53	Normal up vs Off IS Tolerant
1554703_PM_at	ARHGEF10	Rho guanine nucleotide exchange factor (GEF) 10	0.00299	1.44	Normal up vs Off IS Tolerant
202229_PM_s_at	CHERP	calcium homeostasis endoplasmic reticulum protein	0.00299	-1.26	Normal down vs Off IS Tolerant
240392_PM_at	---	---	0.00299	1.68	Normal up vs Off IS Tolerant
1558202_PM_at	LOC145783	hypothetical LOC145783	0.00299	-1.56	Normal down vs Off IS Tolerant
222276_PM_at	METTL2B	methyltransferase like 2B	0.00299	1.32	Normal up vs Off IS Tolerant
202874_PM_s_at	ATP6V1C1	ATPase, H+ transporting, lysosomal 42kDa, V1 subunit C1	0.00299	-1.73	Normal down vs Off IS Tolerant
235112_PM_at	---	---	0.00299	-1.62	Normal down vs Off IS Tolerant
43511_PM_s_at	---	---	0.00300	1.31	Normal up vs Off IS Tolerant
203449_PM_s_at	TERF1	telomeric repeat binding factor (NIMA-interacting) 1	0.00301	1.41	Normal up vs Off IS Tolerant
220482_PM_s_at	SERGEF	secretion regulating guanine nucleotide exchange factor	0.00301	1.39	Normal up vs Off IS Tolerant
AFFX-BioB-3_at	---	---	0.00302	-2.02	Normal down vs Off IS Tolerant
1555487_PM_a_at	ACTR3B /// LOC100290215	ARP3 actin-related protein 3 homolog B (yeast) /// actin-related protein 3B-like	0.00302	1.24	Normal up vs Off IS Tolerant
237875_PM_at	---	---	0.00302	-1.84	Normal down vs Off IS Tolerant
223227_PM_at	BBS2	Bardet-Biedl syndrome 2	0.00302	1.61	Normal up vs Off IS Tolerant
233438_PM_at	C6orf162	Chromosome 6 open reading frame 162	0.00302	1.29	Normal up vs Off IS Tolerant
230264_PM_s_at	AP1S2	adaptor-related protein complex 1, sigma 2 subunit	0.00302	-1.32	Normal down vs Off IS Tolerant

1558295_PM_a_at	PPFIA2	protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein	0.00302	-1.38	Normal down vs Off IS Tolerant
235348_PM_at	ABHD13	abhydrolase domain containing 13	0.00302	1.68	Normal up vs Off IS Tolerant
223950_PM_s_at	FLYWCH1	FLYWCH-type zinc finger 1	0.00303	1.65	Normal up vs Off IS Tolerant
214370_PM_at	S100A8	S100 calcium binding protein A8	0.00303	-1.89	Normal down vs Off IS Tolerant
240037_PM_at	ITPRIPL1	inositol 1,4,5-triphosphate receptor interacting protein-like 1	0.00303	1.33	Normal up vs Off IS Tolerant
1566146_PM_x_at	---	---	0.00303	-2.21	Normal down vs Off IS Tolerant
223005_PM_s_at	C9orf5	chromosome 9 open reading frame 5	0.00303	1.51	Normal up vs Off IS Tolerant
223674_PM_s_at	CDC42SE1	CDC42 small effector 1	0.00304	1.94	Normal up vs Off IS Tolerant
229617_PM_x_at	AP2A1	adaptor-related protein complex 2, alpha 1 subunit	0.00304	-1.41	Normal down vs Off IS Tolerant
201617_PM_x_at	CALD1	caldesmon 1	0.00304	1.24	Normal up vs Off IS Tolerant
209855_PM_s_at	KLK2	kallikrein-related peptidase 2	0.00304	-1.43	Normal down vs Off IS Tolerant
47608_PM_at	TJAP1	tight junction associated protein 1 (peripheral)	0.00304	1.21	Normal up vs Off IS Tolerant
218808_PM_at	DALRD3	DALR anticodon binding domain containing 3	0.00304	1.40	Normal up vs Off IS Tolerant
223540_PM_at	PVRL4	poliovirus receptor-related 4	0.00304	-1.21	Normal down vs Off IS Tolerant
1558922_PM_at	---	---	0.00305	1.71	Normal up vs Off IS Tolerant
239176_PM_at	---	---	0.00305	-1.32	Normal down vs Off IS Tolerant
1570222_PM_at	NDST4	N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 4	0.00305	-1.62	Normal down vs Off IS Tolerant
221983_PM_at	FAM134A	family with sequence similarity 134, member A	0.00305	1.35	Normal up vs Off IS Tolerant
219829_PM_at	ITGB1BP2	integrin beta 1 binding protein (melusin) 2	0.00305	1.24	Normal up vs Off IS Tolerant
227186_PM_s_at	MRPL41	mitochondrial ribosomal protein L41	0.00306	1.27	Normal up vs Off IS Tolerant

231090_PM_s_at	ARID2	AT rich interactive domain 2 (ARID, RFX-like)	0.00306	1.36	Normal up vs Off IS Tolerant
241971_PM_at	---	---	0.00306	-1.22	Normal down vs Off IS Tolerant
233274_PM_at	---	---	0.00306	1.36	Normal up vs Off IS Tolerant
232019_PM_at	ZKSCAN2	zinc finger with KRAB and SCAN domains 2	0.00307	1.27	Normal up vs Off IS Tolerant
220709_PM_at	ZNF556	zinc finger protein 556	0.00307	-1.22	Normal down vs Off IS Tolerant
241077_PM_at	---	---	0.00307	-1.89	Normal down vs Off IS Tolerant
227947_PM_at	PHACTR2	phosphatase and actin regulator 2	0.00307	1.47	Normal up vs Off IS Tolerant
204297_PM_at	PIK3C3	phosphoinositide-3-kinase, class 3	0.00307	-1.25	Normal down vs Off IS Tolerant
1556385_PM_at	---	---	0.00307	1.75	Normal up vs Off IS Tolerant
205382_PM_s_at	CFD	complement factor D (adipsin)	0.00308	-1.60	Normal down vs Off IS Tolerant
227844_PM_at	FMNL3	formin-like 3	0.00308	1.37	Normal up vs Off IS Tolerant
214689_PM_at	PAPPA2	pappalysin 2	0.00308	-1.25	Normal down vs Off IS Tolerant
225268_PM_at	KPNA4	karyopherin alpha 4 (importin alpha 3)	0.00308	1.35	Normal up vs Off IS Tolerant
213166_PM_x_at	MZT2A	mitotic spindle organizing protein 2A	0.00308	1.40	Normal up vs Off IS Tolerant
214088_PM_s_at	FUT3	fucosyltransferase 3 (galactoside 3(4)-L-fucosyltransferase, Lewis blood group)	0.00308	-1.26	Normal down vs Off IS Tolerant
1563522_PM_at	DDX10	DEAD (Asp-Glu-Ala-Asp) box polypeptide 10	0.00309	-1.56	Normal down vs Off IS Tolerant
208754_PM_s_at	NAP1L1	nucleosome assembly protein 1-like 1	0.00309	1.28	Normal up vs Off IS Tolerant
1562939_PM_at	LRRC16A	leucine rich repeat containing 16A	0.00309	-1.54	Normal down vs Off IS Tolerant
206253_PM_at	DLG2	discs, large homolog 2 (Drosophila)	0.00310	-1.27	Normal down vs Off IS Tolerant
218079_PM_s_at	GGNBP2	gametogenetin binding protein 2	0.00310	1.22	Normal up vs Off IS Tolerant
205318_PM_at	KIF5A	kinesin family member 5A	0.00310	-1.25	Normal down vs Off IS Tolerant

229601_PM_at	SCYL1	SCY1-like 1 (<i>S. cerevisiae</i>)	0.00310	-1.23	Normal down vs Off IS Tolerant
221207_PM_s_at	NBEA	neurobeachin	0.00310	1.38	Normal up vs Off IS Tolerant
1555135_PM_at	---	---	0.00310	-1.27	Normal down vs Off IS Tolerant
232744_PM_x_at	---	---	0.00311	1.88	Normal up vs Off IS Tolerant
209397_PM_at	ME2	malic enzyme 2, NAD(+)-dependent, mitochondrial	0.00311	-1.38	Normal down vs Off IS Tolerant
209451_PM_at	TANK	TRAF family member-associated NFKB activator	0.00311	1.25	Normal up vs Off IS Tolerant
217883_PM_at	MMADHC	methylmalonic aciduria (cobalamin deficiency) cbID type, with homocystinuria	0.00312	1.23	Normal up vs Off IS Tolerant
244474_PM_at	---	---	0.00312	1.55	Normal up vs Off IS Tolerant
209594_PM_x_at	PSG9	pregnancy specific beta-1-glycoprotein 9	0.00312	-1.24	Normal down vs Off IS Tolerant
226641_PM_at	ANKRD44	ankyrin repeat domain 44	0.00312	1.24	Normal up vs Off IS Tolerant
222736_PM_s_at	TMEM38B	transmembrane protein 38B	0.00312	1.43	Normal up vs Off IS Tolerant
214731_PM_at	---	---	0.00312	1.82	Normal up vs Off IS Tolerant
234304_PM_s_at	IPO11	importin 11	0.00312	1.45	Normal up vs Off IS Tolerant
232819_PM_s_at	LTBR	Lymphotoxin beta receptor (TNFR superfamily, member 3)	0.00312	-1.32	Normal down vs Off IS Tolerant
214363_PM_s_at	MATR3	matrin 3	0.00312	1.16	Normal up vs Off IS Tolerant
238807_PM_at	GAPDHP62	glyceraldehyde 3 phosphate dehydrogenase pseudogene 62	0.00313	1.58	Normal up vs Off IS Tolerant
1555505_PM_a_at	TYR	tyrosinase (oculocutaneous albinism IA)	0.00313	-1.49	Normal down vs Off IS Tolerant
214976_PM_at	RPL13	ribosomal protein L13	0.00313	1.40	Normal up vs Off IS Tolerant
207761_PM_s_at	METTL7A	methyltransferase like 7A	0.00313	-1.50	Normal down vs Off IS Tolerant
225984_PM_at	PRKAA1	protein kinase, AMP-activated, alpha 1 catalytic subunit	0.00313	1.38	Normal up vs Off IS Tolerant
226453_PM_at	RNASEH2C	ribonuclease H2, subunit C	0.00313	-1.33	Normal down vs Off IS Tolerant

211442_PM_x_at	CYP3A43	cytochrome P450, family 3, subfamily A, polypeptide 43	0.00314	-1.28	Normal down vs Off IS Tolerant
237179_PM_at	PCMTD2	protein-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 2	0.00314	1.44	Normal up vs Off IS Tolerant
222093_PM_s_at	INO80B	INO80 complex subunit B	0.00314	-1.44	Normal down vs Off IS Tolerant
203131_PM_at	PDGFRA	platelet-derived growth factor receptor, alpha polypeptide	0.00314	-1.29	Normal down vs Off IS Tolerant
233191_PM_at	RUFY2	RUN and FYVE domain containing 2	0.00314	1.39	Normal up vs Off IS Tolerant
203657_PM_s_at	CTSF	cathepsin F	0.00314	1.28	Normal up vs Off IS Tolerant
243566_PM_at	LOC100506238	hypothetical LOC100506238	0.00314	-2.36	Normal down vs Off IS Tolerant
205056_PM_s_at	GPR162	G protein-coupled receptor 162	0.00314	-1.31	Normal down vs Off IS Tolerant
234297_PM_at	RGS8 /// SDHAP3	Regulator of G-protein signaling 8 /// Succinate dehydrogenase complex, subunit A, flav	0.00315	1.57	Normal up vs Off IS Tolerant
221729_PM_at	COL5A2	collagen, type V, alpha 2	0.00315	-1.52	Normal down vs Off IS Tolerant
244286_PM_at	---	---	0.00315	1.67	Normal up vs Off IS Tolerant
238425_PM_at	---	---	0.00315	1.49	Normal up vs Off IS Tolerant
229111_PM_at	---	---	0.00315	1.54	Normal up vs Off IS Tolerant
217853_PM_at	TNS3	tensin 3	0.00315	-1.37	Normal down vs Off IS Tolerant
242445_PM_at	FGD4	FYVE, RhoGEF and PH domain containing 4	0.00316	-1.24	Normal down vs Off IS Tolerant
224832_PM_at	DUSP16	dual specificity phosphatase 16	0.00316	1.62	Normal up vs Off IS Tolerant
208407_PM_s_at	CTNND1	catenin (cadherin-associated protein), delta 1	0.00317	-1.63	Normal down vs Off IS Tolerant
1556387_PM_at	---	---	0.00317	-1.32	Normal down vs Off IS Tolerant
203658_PM_at	SLC25A20	solute carrier family 25 (carnitine/acylcarnitine translocase), member 20	0.00317	-1.90	Normal down vs Off IS Tolerant

209357_PM_at	CITED2	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 2	0.00317	1.73	Normal up vs Off IS Tolerant
1569817_PM_at	LOC644620	Hypothetical LOC644620	0.00317	-1.30	Normal down vs Off IS Tolerant
1561155_PM_at	---	---	0.00317	1.50	Normal up vs Off IS Tolerant
222126_PM_at	AGFG2	ArfGAP with FG repeats 2	0.00317	1.53	Normal up vs Off IS Tolerant
202587_PM_s_at	AK1	adenylate kinase 1	0.00317	1.70	Normal up vs Off IS Tolerant
208281_PM_x_at	DAZ1 /// DAZ2 /// DAZ3 /// DAZ4	deleted in azoospermia 1 /// deleted in azoospermia 2 /// deleted in azoospermia 3 ///	0.00317	-2.23	Normal down vs Off IS Tolerant
232527_PM_at	---	---	0.00317	1.44	Normal up vs Off IS Tolerant
222646_PM_s_at	ERO1L	ERO1-like (<i>S. cerevisiae</i>)	0.00318	1.61	Normal up vs Off IS Tolerant
221243_PM_s_at	---	---	0.00318	-1.26	Normal down vs Off IS Tolerant
223051_PM_at	SSU72	SSU72 RNA polymerase II CTD phosphatase homolog (<i>S. cerevisiae</i>)	0.00318	1.25	Normal up vs Off IS Tolerant
1562608_PM_at	---	---	0.00318	-1.65	Normal down vs Off IS Tolerant
207974_PM_s_at	SKP1	S-phase kinase-associated protein 1	0.00318	1.31	Normal up vs Off IS Tolerant
1566540_PM_at	---	---	0.00319	-1.24	Normal down vs Off IS Tolerant
239134_PM_at	---	---	0.00319	1.38	Normal up vs Off IS Tolerant
227628_PM_at	GPX8	glutathione peroxidase 8 (putative)	0.00319	-1.59	Normal down vs Off IS Tolerant
201905_PM_s_at	CTDSPL	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase-like	0.00319	1.30	Normal up vs Off IS Tolerant
201106_PM_at	GPX4	glutathione peroxidase 4 (phospholipid hydroperoxidase)	0.00319	1.31	Normal up vs Off IS Tolerant
229747_PM_x_at	LOC146880	Hypothetical LOC146880	0.00319	-1.29	Normal down vs Off IS Tolerant
230955_PM_s_at	C20orf112	chromosome 20 open reading frame 112	0.00319	1.25	Normal up vs Off IS Tolerant

201975_PM_at	CLIP1	CAP-GLY domain containing linker protein 1	0.00319	1.43	Normal up vs Off IS Tolerant
205594_PM_at	ZNF652	zinc finger protein 652	0.00320	1.60	Normal up vs Off IS Tolerant
236831_PM_at	CCDC50	coiled-coil domain containing 50	0.00320	-1.57	Normal down vs Off IS Tolerant
235012_PM_at	LRCH1	leucine-rich repeats and calponin homology (CH) domain containing 1	0.00320	1.43	Normal up vs Off IS Tolerant
218649_PM_x_at	SDCCAG1	serologically defined colon cancer antigen 1	0.00320	1.27	Normal up vs Off IS Tolerant
218809_PM_at	PANK2	pantothenate kinase 2	0.00320	-1.30	Normal down vs Off IS Tolerant
244268_PM_x_at	LOC646214	p21 protein (Cdc42/Rac)-activated kinase 2 pseudogene	0.00320	-1.20	Normal down vs Off IS Tolerant
1552686_PM_at	C20orf152	chromosome 20 open reading frame 152	0.00321	-1.32	Normal down vs Off IS Tolerant
226588_PM_at	CWC22	CWC22 spliceosome-associated protein homolog (<i>S. cerevisiae</i>)	0.00321	1.43	Normal up vs Off IS Tolerant
1554963_PM_at	---	---	0.00321	1.31	Normal up vs Off IS Tolerant
219866_PM_at	CLIC5	chloride intracellular channel 5	0.00321	-1.29	Normal down vs Off IS Tolerant
228932_PM_at	---	---	0.00321	1.53	Normal up vs Off IS Tolerant
238778_PM_at	MPP7	membrane protein, palmitoylated 7 (MAGUK p55 subfamily member 7)	0.00321	1.60	Normal up vs Off IS Tolerant
244407_PM_at	CYP39A1	cytochrome P450, family 39, subfamily A, polypeptide 1	0.00321	-1.45	Normal down vs Off IS Tolerant
1558496_PM_at	---	---	0.00322	-1.70	Normal down vs Off IS Tolerant
1562656_PM_at	---	---	0.00322	-1.53	Normal down vs Off IS Tolerant
242343_PM_x_at	---	---	0.00322	-1.48	Normal down vs Off IS Tolerant
1570207_PM_at	FRRS1	ferric-chelate reductase 1	0.00322	-1.28	Normal down vs Off IS Tolerant
211339_PM_s_at	ITK	IL2-inducible T-cell kinase	0.00322	1.89	Normal up vs Off IS Tolerant

227494_PM_at	LOC253842 /// NR6A1	hypothetical protein LOC253842 /// nuclear receptor subfamily 6, group A, member 1	0.00323	-1.37	Normal down vs Off IS Tolerant
221910_PM_at	ETV1	ets variant 1	0.00323	-1.22	Normal down vs Off IS Tolerant
1557697_PM_at	---	---	0.00323	-1.34	Normal down vs Off IS Tolerant
205751_PM_at	SH3GL2	SH3-domain GRB2-like 2	0.00323	-1.23	Normal down vs Off IS Tolerant
235908_PM_at	MMP11	matrix metalloproteinase 11 (stromelysin 3)	0.00323	-1.29	Normal down vs Off IS Tolerant
233676_PM_at	---	---	0.00324	-1.29	Normal down vs Off IS Tolerant
212920_PM_at	REST	RE1-silencing transcription factor	0.00324	1.43	Normal up vs Off IS Tolerant
1559957_PM_a_at	LOC642852	hypothetical LOC642852	0.00324	1.44	Normal up vs Off IS Tolerant
219135_PM_s_at	LMF1	lipase maturation factor 1	0.00324	1.42	Normal up vs Off IS Tolerant
239915_PM_at	LOC100133311	hypothetical LOC100133311	0.00324	-1.22	Normal down vs Off IS Tolerant
227355_PM_at	RBM26	RNA binding motif protein 26	0.00325	-1.30	Normal down vs Off IS Tolerant
232113_PM_at	---	---	0.00325	-1.35	Normal down vs Off IS Tolerant
205482_PM_x_at	SNX15	sorting nexin 15	0.00325	-1.49	Normal down vs Off IS Tolerant
234210_PM_x_at	ACTR2	ARP2 actin-related protein 2 homolog (yeast)	0.00325	1.93	Normal up vs Off IS Tolerant
239855_PM_at	PPM1L	Protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent, 1L	0.00325	-1.22	Normal down vs Off IS Tolerant
204434_PM_at	SPATA2	spermatogenesis associated 2	0.00325	1.46	Normal up vs Off IS Tolerant
209124_PM_at	MYD88	myeloid differentiation primary response gene (88)	0.00325	-1.24	Normal down vs Off IS Tolerant
1562289_PM_at	---	---	0.00325	-1.97	Normal down vs Off IS Tolerant
238121_PM_at	GK5	glycerol kinase 5 (putative)	0.00326	1.69	Normal up vs Off IS Tolerant

1553564_PM_at	MACROD2	MACRO domain containing 2	0.00326	-1.67	Normal down vs Off IS Tolerant
224696_PM_s_at	DCAF5	DDB1 and CUL4 associated factor 5	0.00326	1.39	Normal up vs Off IS Tolerant
201908_PM_at	DVL3	dishevelled, dsh homolog 3 (Drosophila)	0.00327	1.41	Normal up vs Off IS Tolerant
219253_PM_at	TMEM185B	transmembrane protein 185B (pseudogene)	0.00327	1.86	Normal up vs Off IS Tolerant
229737_PM_at	FAM46A	Family with sequence similarity 46, member A	0.00327	-1.35	Normal down vs Off IS Tolerant
230270_PM_at	PRPF38B	PRP38 pre-mRNA processing factor 38 (yeast) domain containing B	0.00327	1.33	Normal up vs Off IS Tolerant
228563_PM_at	GJC1	gap junction protein, gamma 1, 45kDa	0.00328	-1.33	Normal down vs Off IS Tolerant
232611_PM_at	GOLGA2B	golgin A2 family, member B	0.00328	1.30	Normal up vs Off IS Tolerant
219482_PM_at	SETD4	SET domain containing 4	0.00328	1.55	Normal up vs Off IS Tolerant
204229_PM_at	SLC17A7	solute carrier family 17 (sodium- dependent inorganic phosphate cotransporter), member 7	0.00328	-1.28	Normal down vs Off IS Tolerant
205339_PM_at	STIL	SCL/TAL1 interrupting locus	0.00328	1.19	Normal up vs Off IS Tolerant
241817_PM_at	C3orf62	chromosome 3 open reading frame 62	0.00328	1.52	Normal up vs Off IS Tolerant
212031_PM_at	RBM25	RNA binding motif protein 25	0.00329	1.28	Normal up vs Off IS Tolerant
224124_PM_at	ZRANB3	zinc finger, RAN-binding domain containing 3	0.00329	-1.39	Normal down vs Off IS Tolerant
229299_PM_at	C5orf33	chromosome 5 open reading frame 33	0.00329	1.32	Normal up vs Off IS Tolerant
1562495_PM_at	ANKFY1	Ankyrin repeat and FYVE domain containing 1	0.00329	-1.26	Normal down vs Off IS Tolerant
232226_PM_at	LRRC4C	leucine rich repeat containing 4C	0.00329	-1.52	Normal down vs Off IS Tolerant
212936_PM_at	FAM172A	family with sequence similarity 172, member A	0.00329	1.28	Normal up vs Off IS Tolerant
209063_PM_x_at	PAIP1	poly(A) binding protein interacting protein 1	0.00329	1.71	Normal up vs Off IS Tolerant
1559006_PM_at	---	---	0.00329	1.28	Normal up vs Off IS Tolerant

AFFX-HUMISGF3A/M979 35_MA_at	STAT1	signal transducer and activator of transcription 1, 91kDa	0.00330	-1.53	Normal down vs Off IS Tolerant
203249_PM_at	EZH1	enhancer of zeste homolog 1 (Drosophila)	0.00330	1.35	Normal up vs Off IS Tolerant
217260_PM_x_at	IGHG1 /// LOC100293559	Immunoglobulin heavy constant gamma 1 (G1m marker) /// Similar to hCG1812074	0.00330	-1.24	Normal down vs Off IS Tolerant
207417_PM_s_at	ZNF177	zinc finger protein 177	0.00330	1.35	Normal up vs Off IS Tolerant
234486_PM_at	OR51B2	olfactory receptor, family 51, subfamily B, member 2	0.00330	-1.51	Normal down vs Off IS Tolerant
216326_PM_s_at	HDAC3	histone deacetylase 3	0.00330	1.30	Normal up vs Off IS Tolerant
1570639_PM_at	---	---	0.00331	-1.64	Normal down vs Off IS Tolerant
204112_PM_s_at	HNMT	histamine N-methyltransferase	0.00331	-1.74	Normal down vs Off IS Tolerant
222152_PM_at	PDCD6	Programmed cell death 6	0.00331	1.39	Normal up vs Off IS Tolerant
236968_PM_at	C12orf12	chromosome 12 open reading frame 12	0.00331	-1.21	Normal down vs Off IS Tolerant
233467_PM_s_at	TSPAN32	tetraspanin 32	0.00331	1.41	Normal up vs Off IS Tolerant
32062_PM_at	LRRC14	leucine rich repeat containing 14	0.00332	1.22	Normal up vs Off IS Tolerant
237972_PM_at	---	---	0.00332	-1.33	Normal down vs Off IS Tolerant
211928_PM_at	DYNC1H1	dynein, cytoplasmic 1, heavy chain 1	0.00332	1.20	Normal up vs Off IS Tolerant
201100_PM_s_at	USP9X	ubiquitin specific peptidase 9, X-linked	0.00332	1.18	Normal up vs Off IS Tolerant
212231_PM_at	FBXO21	F-box protein 21	0.00332	1.41	Normal up vs Off IS Tolerant
202813_PM_at	TARBP1	TAR (HIV-1) RNA binding protein 1	0.00333	1.38	Normal up vs Off IS Tolerant
203792_PM_x_at	PCGF2	polycomb group ring finger 2	0.00333	-1.35	Normal down vs Off IS Tolerant
216348_PM_at	RPS17	ribosomal protein S17	0.00333	1.36	Normal up vs Off IS Tolerant
213634_PM_s_at	TRMU	tRNA 5-methylaminomethyl-2-thiouridylate methyltransferase	0.00334	1.36	Normal up vs Off IS Tolerant
234763_PM_at	---	---	0.00334	-1.22	Normal down vs Off IS Tolerant
219136_PM_s_at	LMF1	lipase maturation factor 1	0.00335	1.30	Normal up vs Off IS Tolerant

1569876_PM_at	C17orf57	chromosome 17 open reading frame 57	0.00335	-1.29	Normal down vs Off IS Tolerant
214662_PM_at	WDR43	WD repeat domain 43	0.00335	1.52	Normal up vs Off IS Tolerant
233632_PM_s_at	XRN1	5'-3' exoribonuclease 1	0.00335	1.22	Normal up vs Off IS Tolerant
244765_PM_at	---	---	0.00336	1.24	Normal up vs Off IS Tolerant
206272_PM_at	RAB4A /// SPHAR	RAB4A, member RAS oncogene family /// S-phase response (cyclin related)	0.00336	1.50	Normal up vs Off IS Tolerant
202071_PM_at	SDC4	syndecan 4	0.00336	1.80	Normal up vs Off IS Tolerant
215608_PM_at	---	---	0.00336	-1.34	Normal down vs Off IS Tolerant
225995_PM_x_at	WASH1 /// WASH2P	WAS protein family homolog 1 /// WAS protein family homolog 2 pseudogene	0.00336	1.28	Normal up vs Off IS Tolerant
224935_PM_at	EIF2S3	eukaryotic translation initiation factor 2, subunit 3 gamma, 52kDa	0.00337	1.23	Normal up vs Off IS Tolerant
223360_PM_at	C21orf56	chromosome 21 open reading frame 56	0.00337	1.50	Normal up vs Off IS Tolerant
210571_PM_s_at	CMAH	cytidine monophosphate-N-acetylneuraminic acid hydroxylase (CMP-N-acetylneuraminate mon	0.00337	1.50	Normal up vs Off IS Tolerant
209641_PM_s_at	ABCC3	ATP-binding cassette, sub-family C (CFTR/MRP), member 3	0.00337	1.88	Normal up vs Off IS Tolerant
1554178_PM_a_at	FAM126B	family with sequence similarity 126, member B	0.00337	1.39	Normal up vs Off IS Tolerant
222329_PM_x_at	---	---	0.00337	-1.93	Normal down vs Off IS Tolerant
241702_PM_at	---	---	0.00338	1.93	Normal up vs Off IS Tolerant
1558199_PM_at	FN1	fibronectin 1	0.00338	-1.29	Normal down vs Off IS Tolerant
238422_PM_at	LOC151534	hypothetical LOC151534	0.00338	-1.26	Normal down vs Off IS Tolerant
1553459_PM_at	CCDC150	coiled-coil domain containing 150	0.00338	-1.36	Normal down vs Off IS Tolerant
1567079_PM_at	CLN6	ceroid-lipofuscinosis, neuronal 6, late infantile, variant	0.00338	-1.22	Normal down vs Off IS Tolerant

223431_PM_at	CNO	cappuccino homolog (mouse)	0.00338	1.54	Normal up vs Off IS Tolerant
1554466_PM_a_at	C16orf13	chromosome 16 open reading frame 13	0.00338	1.58	Normal up vs Off IS Tolerant
207015_PM_s_at	ALDH1A2	aldehyde dehydrogenase 1 family, member A2	0.00339	-1.25	Normal down vs Off IS Tolerant
222459_PM_at	AKIRIN1	akirin 1	0.00339	1.35	Normal up vs Off IS Tolerant
241731_PM_x_at	ZNF440	zinc finger protein 440	0.00339	1.34	Normal up vs Off IS Tolerant
225971_PM_at	DDHD1	DDHD domain containing 1	0.00339	1.40	Normal up vs Off IS Tolerant
213877_PM_x_at	TCEB2	transcription elongation factor B (SIII), polypeptide 2 (18kDa, elongin B)	0.00340	-1.37	Normal down vs Off IS Tolerant
230528_PM_s_at	MGC2752	hypothetical LOC65996	0.00340	1.55	Normal up vs Off IS Tolerant
1557064_PM_s_at	HGSNAT	heparan-alpha-glucosaminide N-acetyltransferase	0.00340	1.53	Normal up vs Off IS Tolerant
239671_PM_at	---	---	0.00340	-1.21	Normal down vs Off IS Tolerant
205940_PM_at	MYH3	myosin, heavy chain 3, skeletal muscle, embryonic	0.00340	1.31	Normal up vs Off IS Tolerant
205343_PM_at	SULT1C2	sulfotransferase family, cytosolic, 1C, member 2	0.00341	-1.21	Normal down vs Off IS Tolerant
1558830_PM_at	---	---	0.00341	1.19	Normal up vs Off IS Tolerant
224701_PM_at	PARP14	poly (ADP-ribose) polymerase family, member 14	0.00341	-1.44	Normal down vs Off IS Tolerant
233169_PM_at	ZNF350	zinc finger protein 350	0.00341	1.57	Normal up vs Off IS Tolerant
1569156_PM_at	ZNF846	zinc finger protein 846	0.00341	1.28	Normal up vs Off IS Tolerant
228782_PM_at	SCGB3A2	secretoglobin, family 3A, member 2	0.00341	-1.19	Normal down vs Off IS Tolerant
222450_PM_at	PMEPA1	prostate transmembrane protein, androgen induced 1	0.00341	-1.67	Normal down vs Off IS Tolerant
204449_PM_at	PDCL	phosducin-like	0.00342	1.28	Normal up vs Off IS Tolerant
242045_PM_at	ANKRD18A	Ankyrin repeat domain 18A	0.00342	-1.59	Normal down vs Off IS Tolerant
234892_PM_at	---	---	0.00342	-1.38	Normal down vs Off IS Tolerant
229120_PM_s_at	CDC42SE1	CDC42 small effector 1	0.00342	1.21	Normal up vs Off IS Tolerant

242076_PM_at	---	---	0.00342	-1.41	Normal down vs Off IS Tolerant
204497_PM_at	ADCY9	adenylate cyclase 9	0.00343	1.55	Normal up vs Off IS Tolerant
241006_PM_at	---	---	0.00343	-1.20	Normal down vs Off IS Tolerant
232569_PM_at	---	---	0.00343	1.69	Normal up vs Off IS Tolerant
229375_PM_at	PPIE	peptidylprolyl isomerase E (cyclophilin E)	0.00343	1.28	Normal up vs Off IS Tolerant
1561017_PM_at	---	---	0.00343	-1.52	Normal down vs Off IS Tolerant
213448_PM_at	---	---	0.00344	1.44	Normal up vs Off IS Tolerant
1569675_PM_at	POU2AF1	POU class 2 associating factor 1	0.00344	-1.38	Normal down vs Off IS Tolerant
1552749_PM_a_at	KLC3	kinesin light chain 3	0.00344	-1.43	Normal down vs Off IS Tolerant
201103_PM_x_at	NBPF10 /// NBPF15 /// NBPF16	neuroblastoma breakpoint family, member 10 /// neuroblastoma breakpoint family, member	0.00344	1.16	Normal up vs Off IS Tolerant
241140_PM_at	LMO7	LIM domain 7	0.00345	-1.29	Normal down vs Off IS Tolerant
1555831_PM_s_at	LRRC41	leucine rich repeat containing 41	0.00345	1.48	Normal up vs Off IS Tolerant
244764_PM_at	LOC100507198	hypothetical LOC100507198	0.00345	1.37	Normal up vs Off IS Tolerant
219193_PM_at	WDR70	WD repeat domain 70	0.00346	-1.30	Normal down vs Off IS Tolerant
1554277_PM_s_at	FANCM	Fanconi anemia, complementation group M	0.00346	-1.31	Normal down vs Off IS Tolerant
242838_PM_at	MAP6D1	MAP6 domain containing 1	0.00347	1.51	Normal up vs Off IS Tolerant
227593_PM_at	FLJ37453	hypothetical LOC729614	0.00347	1.44	Normal up vs Off IS Tolerant
1561963_PM_at	MIR4296	microRNA 4296	0.00348	-1.23	Normal down vs Off IS Tolerant
210781_PM_x_at	GRIN1	glutamate receptor, ionotropic, N-methyl D-aspartate 1	0.00348	-1.25	Normal down vs Off IS Tolerant
220458_PM_at	---	---	0.00348	1.84	Normal up vs Off IS Tolerant

201321_PM_s_at	SMARCC2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily c	0.00348	1.37	Normal up vs Off IS Tolerant
235158_PM_at	TMEM209	transmembrane protein 209	0.00349	1.59	Normal up vs Off IS Tolerant
236338_PM_at	---	---	0.00349	1.69	Normal up vs Off IS Tolerant
231386_PM_at	C2orf84	chromosome 2 open reading frame 84	0.00350	-1.34	Normal down vs Off IS Tolerant
235217_PM_at	LOC100216546	hypothetical LOC100216546	0.00350	-1.24	Normal down vs Off IS Tolerant
201221_PM_s_at	SNRNP70	small nuclear ribonucleoprotein 70kDa (U1)	0.00350	1.32	Normal up vs Off IS Tolerant
228958_PM_at	ZNF19	zinc finger protein 19	0.00350	-1.32	Normal down vs Off IS Tolerant
1552736_PM_a_at	NETO1	neuropilin (NRP) and tolloid (TLL)-like 1	0.00350	-1.88	Normal down vs Off IS Tolerant
205025_PM_at	ZBTB48	zinc finger and BTB domain containing 48	0.00350	1.52	Normal up vs Off IS Tolerant
219810_PM_at	VCPIP1	valosin containing protein (p97)/p47 complex interacting protein 1	0.00351	1.63	Normal up vs Off IS Tolerant
214978_PM_s_at	PPFIA4	protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein	0.00351	-1.24	Normal down vs Off IS Tolerant
222393_PM_s_at	NAA50	N(alpha)-acetyltransferase 50, NatE catalytic subunit	0.00351	1.59	Normal up vs Off IS Tolerant
1552269_PM_at	SPATA17	spermatogenesis associated 17	0.00352	-1.39	Normal down vs Off IS Tolerant
1557996_PM_at	LOC100132832	postmeiotic segregation increased 2-like 5-like	0.00352	1.61	Normal up vs Off IS Tolerant
214959_PM_s_at	API5	apoptosis inhibitor 5	0.00352	1.99	Normal up vs Off IS Tolerant
243278_PM_at	FOXP2	forkhead box P2	0.00353	-1.35	Normal down vs Off IS Tolerant
1563657_PM_at	PLXND1	plexin D1	0.00353	-1.27	Normal down vs Off IS Tolerant
237986_PM_at	---	---	0.00353	-1.28	Normal down vs Off IS Tolerant

202731_PM_at	PDCD4	programmed cell death 4 (neoplastic transformation inhibitor)	0.00354	1.49	Normal up vs Off IS Tolerant
242736_PM_at	---	---	0.00354	1.18	Normal up vs Off IS Tolerant
202389_PM_s_at	HTT	huntingtin	0.00355	1.29	Normal up vs Off IS Tolerant
220704_PM_at	IKZF1	IKAROS family zinc finger 1 (Ikaros)	0.00355	1.84	Normal up vs Off IS Tolerant
1562512_PM_at	SMPDL3A	Sphingomyelin phosphodiesterase, acid-like 3A	0.00355	-1.40	Normal down vs Off IS Tolerant
229124_PM_at	PROK1	prokineticin 1	0.00356	-1.17	Normal down vs Off IS Tolerant
241287_PM_x_at	---	---	0.00356	1.20	Normal up vs Off IS Tolerant
243371_PM_at	---	---	0.00356	1.75	Normal up vs Off IS Tolerant
1561262_PM_at	---	---	0.00356	-1.49	Normal down vs Off IS Tolerant
205818_PM_at	DBC1	deleted in bladder cancer 1	0.00357	-2.30	Normal down vs Off IS Tolerant
240012_PM_at	---	---	0.00357	-1.28	Normal down vs Off IS Tolerant
213034_PM_at	SIK3	SIK family kinase 3	0.00358	1.23	Normal up vs Off IS Tolerant
1562453_PM_at	---	---	0.00358	-1.28	Normal down vs Off IS Tolerant
237345_PM_at	LOC100509639	hypothetical LOC100509639	0.00358	-1.40	Normal down vs Off IS Tolerant
1563398_PM_at	---	---	0.00358	-1.26	Normal down vs Off IS Tolerant
40612_PM_at	DOPEY1	dopey family member 1	0.00358	1.29	Normal up vs Off IS Tolerant
1555343_PM_at	MEGF10	multiple EGF-like-domains 10	0.00358	-1.37	Normal down vs Off IS Tolerant
205356_PM_at	USP13	ubiquitin specific peptidase 13 (isopeptidase T-3)	0.00358	1.38	Normal up vs Off IS Tolerant
220331_PM_at	CYP46A1	cytochrome P450, family 46, subfamily A, polypeptide 1	0.00359	-1.24	Normal down vs Off IS Tolerant
230753_PM_at	PATL2	protein associated with topoisomerase II homolog 2 (yeast)	0.00359	1.63	Normal up vs Off IS Tolerant
242111_PM_at	METTL3	methyltransferase like 3	0.00359	1.56	Normal up vs Off IS Tolerant

211794_PM_at	FYB	FYN binding protein	0.00360	-1.42	Normal down vs Off IS Tolerant
1562678_PM_at	---	---	0.00360	-1.33	Normal down vs Off IS Tolerant
223080_PM_at	GLS	Glutaminase	0.00360	1.63	Normal up vs Off IS Tolerant
221187_PM_s_at	FUZ	fuzzy homolog (Drosophila)	0.00360	-1.30	Normal down vs Off IS Tolerant
218246_PM_at	MUL1	mitochondrial E3 ubiquitin protein ligase 1	0.00360	1.27	Normal up vs Off IS Tolerant
240904_PM_at	---	---	0.00360	-1.67	Normal down vs Off IS Tolerant
224719_PM_s_at	C12orf57	chromosome 12 open reading frame 57	0.00361	1.66	Normal up vs Off IS Tolerant
223634_PM_at	RASD2	RASD family, member 2	0.00361	-1.23	Normal down vs Off IS Tolerant
229231_PM_at	LRRC37B	leucine rich repeat containing 37B	0.00361	1.33	Normal up vs Off IS Tolerant
215095_PM_at	---	---	0.00362	1.30	Normal up vs Off IS Tolerant
213035_PM_at	ANKRD28	ankyrin repeat domain 28	0.00363	1.53	Normal up vs Off IS Tolerant
234834_PM_at	---	---	0.00363	-1.69	Normal down vs Off IS Tolerant
208773_PM_s_at	ANKHD1 /// ANKHD1-EIF4EBP3	ankyrin repeat and KH domain containing 1 /// ANKHD1-EIF4EBP3 readthrough	0.00364	1.19	Normal up vs Off IS Tolerant
1563839_PM_at	TBC1D7	TBC1 domain family, member 7	0.00364	-1.27	Normal down vs Off IS Tolerant
231907_PM_at	ABL2	v-abl Abelson murine leukemia viral oncogene homolog 2	0.00364	1.48	Normal up vs Off IS Tolerant
208321_PM_s_at	CABP1	calcium binding protein 1	0.00364	-1.19	Normal down vs Off IS Tolerant
231853_PM_at	TUBD1	tubulin, delta 1	0.00365	1.68	Normal up vs Off IS Tolerant
234724_PM_x_at	PCDHB18	protocadherin beta 18 pseudogene	0.00365	-1.29	Normal down vs Off IS Tolerant
244690_PM_at	---	---	0.00365	-2.03	Normal down vs Off IS Tolerant

237041_PM_x_at	RCOR1	REST corepressor 1	0.00365	-1.32	Normal down vs Off IS Tolerant
215278_PM_at	---	---	0.00365	-1.48	Normal down vs Off IS Tolerant
228011_PM_at	FAM92A1	family with sequence similarity 92, member A1	0.00365	-1.21	Normal down vs Off IS Tolerant
235705_PM_at	---	---	0.00366	-1.43	Normal down vs Off IS Tolerant
213274_PM_s_at	CTSB	cathepsin B	0.00366	-1.59	Normal down vs Off IS Tolerant
205423_PM_at	AP1B1	adaptor-related protein complex 1, beta 1 subunit	0.00366	-1.25	Normal down vs Off IS Tolerant
238860_PM_at	C6orf130	chromosome 6 open reading frame 130	0.00366	1.42	Normal up vs Off IS Tolerant
235721_PM_at	DTX3	deltex homolog 3 (Drosophila)	0.00367	1.35	Normal up vs Off IS Tolerant
228662_PM_at	LOC100505522 /// LOC100508400	hypothetical LOC100505522 /// hypothetical LOC100508400	0.00367	1.49	Normal up vs Off IS Tolerant
209057_PM_x_at	CDC5L	CDC5 cell division cycle 5-like (S. pombe)	0.00368	-2.78	Normal down vs Off IS Tolerant
240116_PM_at	---	---	0.00368	-1.36	Normal down vs Off IS Tolerant
223258_PM_s_at	G2E3	G2/M-phase specific E3 ubiquitin protein ligase	0.00368	1.69	Normal up vs Off IS Tolerant
222564_PM_at	POGK	pogo transposable element with KRAB domain	0.00368	1.48	Normal up vs Off IS Tolerant
206607_PM_at	CBL	Cas-Br-M (murine) ecotropic retroviral transforming sequence	0.00369	-1.27	Normal down vs Off IS Tolerant
228579_PM_at	---	---	0.00370	-1.56	Normal down vs Off IS Tolerant
239673_PM_at	---	---	0.00370	1.98	Normal up vs Off IS Tolerant
206755_PM_at	CYP2B6	cytochrome P450, family 2, subfamily B, polypeptide 6	0.00370	-1.24	Normal down vs Off IS Tolerant
1556844_PM_at	LOC100132078	hypothetical protein LOC100132078	0.00370	-1.20	Normal down vs Off IS Tolerant

228666_PM_at	C15orf38	chromosome 15 open reading frame 38	0.00370	-1.27	Normal down vs Off IS Tolerant
222183_PM_x_at	SNW1	SNW domain containing 1	0.00371	-1.49	Normal down vs Off IS Tolerant
211988_PM_at	SMARCE1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily e	0.00371	1.28	Normal up vs Off IS Tolerant
244780_PM_at	SGPP2	sphingosine-1-phosphate phosphatase 2	0.00371	-1.91	Normal down vs Off IS Tolerant
207798_PM_s_at	ATXN2L	ataxin 2-like	0.00371	1.55	Normal up vs Off IS Tolerant
240792_PM_at	---	---	0.00371	-1.24	Normal down vs Off IS Tolerant
226657_PM_at	C17orf103	chromosome 17 open reading frame 103	0.00371	1.50	Normal up vs Off IS Tolerant
208808_PM_s_at	HMGB2	high-mobility group box 2	0.00372	1.19	Normal up vs Off IS Tolerant
243627_PM_at	---	---	0.00372	-1.24	Normal down vs Off IS Tolerant
240960_PM_at	---	---	0.00372	1.49	Normal up vs Off IS Tolerant
240464_PM_at	---	---	0.00372	-1.38	Normal down vs Off IS Tolerant
229046_PM_s_at	PLEKHB1	Pleckstrin homology domain containing, family B (evectins) member 1	0.00372	-1.27	Normal down vs Off IS Tolerant
212817_PM_at	DNAJB5	DnaJ (Hsp40) homolog, subfamily B, member 5	0.00373	-1.39	Normal down vs Off IS Tolerant
227788_PM_at	USP13	ubiquitin specific peptidase 13 (isopeptidase T-3)	0.00373	1.35	Normal up vs Off IS Tolerant
223626_PM_x_at	IFI27L2	interferon, alpha-inducible protein 27-like 2	0.00373	-1.44	Normal down vs Off IS Tolerant
209289_PM_at	NFIB	nuclear factor I/B	0.00373	1.29	Normal up vs Off IS Tolerant
1553961_PM_s_at	SNX21	sorting nexin family member 21	0.00374	-1.31	Normal down vs Off IS Tolerant
214298_PM_x_at	6-Sep	septin 6	0.00374	1.52	Normal up vs Off IS Tolerant
236511_PM_at	---	---	0.00374	1.80	Normal up vs Off IS Tolerant

212972_PM_x_at	APBB2	amyloid beta (A4) precursor protein-binding, family B, member 2	0.00375	-1.67	Normal down vs Off IS Tolerant
226619_PM_at	SENP1	SUMO1/sentrin specific peptidase 1	0.00375	1.28	Normal up vs Off IS Tolerant
228304_PM_at	RBM43	RNA binding motif protein 43	0.00375	1.61	Normal up vs Off IS Tolerant
1565898_PM_at	METT5D1	Methyltransferase 5 domain containing 1	0.00375	-2.32	Normal down vs Off IS Tolerant
211888_PM_x_at	CASP10	caspase 10, apoptosis-related cysteine peptidase	0.00375	-1.28	Normal down vs Off IS Tolerant
228386_PM_s_at	DDX59	DEAD (Asp-Glu-Ala-Asp) box polypeptide 59	0.00376	1.59	Normal up vs Off IS Tolerant
202217_PM_at	C21orf33	chromosome 21 open reading frame 33	0.00376	-1.30	Normal down vs Off IS Tolerant
225889_PM_at	AEBP2	AE binding protein 2	0.00376	1.25	Normal up vs Off IS Tolerant
213954_PM_at	FAM169A	family with sequence similarity 169, member A	0.00377	1.60	Normal up vs Off IS Tolerant
212969_PM_x_at	EML3	echinoderm microtubule associated protein like 3	0.00378	1.26	Normal up vs Off IS Tolerant
217988_PM_at	CCNB1IP1	cyclin B1 interacting protein 1	0.00378	1.37	Normal up vs Off IS Tolerant
1553019_PM_at	TMC2	transmembrane channel-like 2	0.00378	-1.26	Normal down vs Off IS Tolerant
201522_PM_x_at	SNRPN /// SNURF	small nuclear ribonucleoprotein polypeptide N /// SNRPN upstream reading frame	0.00378	1.39	Normal up vs Off IS Tolerant
210314_PM_x_at	TNFSF13	tumor necrosis factor (ligand) superfamily, member 13	0.00379	-1.44	Normal down vs Off IS Tolerant
218646_PM_at	C4orf27	chromosome 4 open reading frame 27	0.00379	-1.57	Normal down vs Off IS Tolerant
37004_PM_at	SFTPB	surfactant protein B	0.00379	-1.23	Normal down vs Off IS Tolerant
209527_PM_at	EXOSC2	exosome component 2	0.00380	1.40	Normal up vs Off IS Tolerant
208607_PM_s_at	SAA1 /// SAA2	serum amyloid A1 /// serum amyloid A2	0.00380	-1.23	Normal down vs Off IS Tolerant
217917_PM_s_at	DYNLRB1	dynein, light chain, roadblock-type 1	0.00380	1.32	Normal up vs Off IS Tolerant
220587_PM_s_at	MLST8	MTOR associated protein, LST8 homolog (S. cerevisiae)	0.00380	1.41	Normal up vs Off IS Tolerant

226247_PM_at	PLEKHA1	pleckstrin homology domain containing, family A (phosphoinositide binding specific) mem	0.00381	1.43	Normal up vs Off IS Tolerant
1553574_PM_at	IFNE	interferon, epsilon	0.00381	-1.50	Normal down vs Off IS Tolerant
217833_PM_at	SYNCRIP	synaptotagmin binding, cytoplasmic RNA interacting protein	0.00381	1.25	Normal up vs Off IS Tolerant
1558654_PM_at	PPM1H	Protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent, 1H	0.00381	-1.41	Normal down vs Off IS Tolerant
227563_PM_at	FAM27E1 /// FAM27E2 /// FAM27E3	family with sequence similarity 27, member E1 /// family with sequence similarity 27, m	0.00381	-1.21	Normal down vs Off IS Tolerant
220129_PM_at	SOHLH2	spermatogenesis and oogenesis specific basic helix-loop-helix 2	0.00382	-1.49	Normal down vs Off IS Tolerant
205516_PM_x_at	CIZ1	CDKN1A interacting zinc finger protein 1	0.00382	1.30	Normal up vs Off IS Tolerant
230595_PM_at	LOC572558	hypothetical locus LOC572558	0.00382	-1.35	Normal down vs Off IS Tolerant
209412_PM_at	TRAPPC10	trafficking protein particle complex 10	0.00382	1.37	Normal up vs Off IS Tolerant
215186_PM_at	TBC1D30	TBC1 domain family, member 30	0.00382	-1.41	Normal down vs Off IS Tolerant
229848_PM_at	ZNF10	zinc finger protein 10	0.00383	1.46	Normal up vs Off IS Tolerant
234004_PM_at	TTC28	tetratricopeptide repeat domain 28	0.00383	-1.22	Normal down vs Off IS Tolerant
230846_PM_at	AKAP5	A kinase (PRKA) anchor protein 5	0.00383	1.37	Normal up vs Off IS Tolerant
226742_PM_at	SAR1B	SAR1 homolog B (<i>S. cerevisiae</i>)	0.00383	1.27	Normal up vs Off IS Tolerant
235176_PM_at	ZFP82	zinc finger protein 82 homolog (mouse)	0.00383	1.28	Normal up vs Off IS Tolerant
206316_PM_s_at	KNTC1	kinetochore associated 1	0.00383	1.49	Normal up vs Off IS Tolerant
202904_PM_s_at	LSM5	LSM5 homolog, U6 small nuclear RNA associated (<i>S. cerevisiae</i>)	0.00383	1.73	Normal up vs Off IS Tolerant
1558512_PM_at	---	---	0.00383	1.35	Normal up vs Off IS Tolerant
223415_PM_at	RPP25	ribonuclease P/MRP 25kDa subunit	0.00383	-1.44	Normal down vs Off IS Tolerant

205076_PM_s_at	MTMR11	myotubularin related protein 11	0.00384	-1.52	Normal down vs Off IS Tolerant
242344_PM_at	GABRB2	gamma-aminobutyric acid (GABA) A receptor, beta 2	0.00384	-1.51	Normal down vs Off IS Tolerant
215703_PM_at	CFTR	cystic fibrosis transmembrane conductance regulator (ATP-binding cassette sub-family C,	0.00384	-1.26	Normal down vs Off IS Tolerant
1570009_PM_at	LOC643711	platelet-activating factor acetylhydrolase, isoform Ib, beta subunit 30kDa pseudogene	0.00384	-1.35	Normal down vs Off IS Tolerant
1563945_PM_at	LOC284100	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypep	0.00384	-1.30	Normal down vs Off IS Tolerant
239861_PM_at	---	---	0.00385	-1.94	Normal down vs Off IS Tolerant
241471_PM_at	---	---	0.00386	-1.37	Normal down vs Off IS Tolerant
224218_PM_s_at	TRPS1	trichorhinophalangeal syndrome I	0.00387	-1.61	Normal down vs Off IS Tolerant
39763_PM_at	HPX	hemopexin	0.00387	-1.22	Normal down vs Off IS Tolerant
215033_PM_at	TM4SF1	transmembrane 4 L six family member 1	0.00388	-1.22	Normal down vs Off IS Tolerant
218585_PM_s_at	DTL	denticleless homolog (Drosophila)	0.00388	-1.52	Normal down vs Off IS Tolerant
233368_PM_s_at	DNAJC27	DnaJ (Hsp40) homolog, subfamily C, member 27	0.00389	1.34	Normal up vs Off IS Tolerant
1553989_PM_a_at	ATP6V1C2	ATPase, H+ transporting, lysosomal 42kDa, V1 subunit C2	0.00389	-1.21	Normal down vs Off IS Tolerant
243565_PM_at	CCDC150	coiled-coil domain containing 150	0.00389	-1.44	Normal down vs Off IS Tolerant
1554952_PM_s_at	NLRP12	NLR family, pyrin domain containing 12	0.00389	-1.61	Normal down vs Off IS Tolerant
240044_PM_x_at	TNRC6B	Trinucleotide repeat containing 6B	0.00389	1.52	Normal up vs Off IS Tolerant

209863_PM_s_at	TP63	tumor protein p63	0.00389	-1.60	Normal down vs Off IS Tolerant
223162_PM_s_at	KIAA1147	KIAA1147	0.00390	1.34	Normal up vs Off IS Tolerant
222129_PM_at	FAM134A	family with sequence similarity 134, member A	0.00390	1.45	Normal up vs Off IS Tolerant
212283_PM_at	AGRN	agrin	0.00390	-1.21	Normal down vs Off IS Tolerant
219717_PM_at	DCAF16	DDB1 and CUL4 associated factor 16	0.00391	1.80	Normal up vs Off IS Tolerant
230938_PM_x_at	ATF5	activating transcription factor 5	0.00391	-1.41	Normal down vs Off IS Tolerant
204847_PM_at	ZBTB11	zinc finger and BTB domain containing 11	0.00391	1.43	Normal up vs Off IS Tolerant
230145_PM_at	DUS3L	Dihydrouridine synthase 3-like (S. cerevisiae)	0.00391	-1.19	Normal down vs Off IS Tolerant
237108_PM_x_at	FLJ42875	hypothetical LOC440556	0.00391	-1.27	Normal down vs Off IS Tolerant
220107_PM_s_at	FAM164C	family with sequence similarity 164, member C	0.00391	-1.16	Normal down vs Off IS Tolerant
222720_PM_x_at	C1orf27	chromosome 1 open reading frame 27	0.00391	1.28	Normal up vs Off IS Tolerant
231710_PM_at	CAPS	calcyphosine	0.00392	-1.40	Normal down vs Off IS Tolerant
223618_PM_at	FMN2	formin 2	0.00392	-1.46	Normal down vs Off IS Tolerant
214324_PM_at	GP2	glycoprotein 2 (zymogen granule membrane)	0.00392	-1.20	Normal down vs Off IS Tolerant
207770_PM_x_at	CSH2	chorionic somatomammotropin hormone 2	0.00392	-1.29	Normal down vs Off IS Tolerant
222523_PM_at	SENP2	SUMO1/sentrin/SMT3 specific peptidase 2	0.00392	1.58	Normal up vs Off IS Tolerant
243880_PM_at	GOSR2	Golgi SNAP receptor complex member 2	0.00393	1.40	Normal up vs Off IS Tolerant
1556121_PM_at	NAP1L1	nucleosome assembly protein 1-like 1	0.00393	1.42	Normal up vs Off IS Tolerant
200875_PM_s_at	NOP56	NOP56 ribonucleoprotein homolog (yeast)	0.00394	1.24	Normal up vs Off IS Tolerant
225218_PM_at	ZFYVE27	zinc finger, FYVE domain containing 27	0.00394	1.24	Normal up vs Off IS Tolerant

206433_PM_s_at	SPOCK3	sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 3	0.00395	-1.40	Normal down vs Off IS Tolerant
236916_PM_at	---	---	0.00395	1.26	Normal up vs Off IS Tolerant
226341_PM_at	---	---	0.00396	1.43	Normal up vs Off IS Tolerant
232449_PM_at	BCO2	beta-carotene oxygenase 2	0.00396	-1.26	Normal down vs Off IS Tolerant
229370_PM_at	---	---	0.00396	1.61	Normal up vs Off IS Tolerant
201649_PM_at	UBE2L6	ubiquitin-conjugating enzyme E2L 6	0.00397	-1.33	Normal down vs Off IS Tolerant
209791_PM_at	PADI2	peptidyl arginine deiminase, type II	0.00397	-1.80	Normal down vs Off IS Tolerant
234882_PM_at	---	---	0.00397	-1.38	Normal down vs Off IS Tolerant
1555225_PM_at	C1orf43	chromosome 1 open reading frame 43	0.00398	1.60	Normal up vs Off IS Tolerant
209439_PM_s_at	PHKA2	phosphorylase kinase, alpha 2 (liver)	0.00398	1.26	Normal up vs Off IS Tolerant
AFFX-BioB-M_at	---	---	0.00398	-1.97	Normal down vs Off IS Tolerant
227375_PM_at	ANKRD13C	ankyrin repeat domain 13C	0.00398	1.66	Normal up vs Off IS Tolerant
1562463_PM_at	---	---	0.00398	-1.23	Normal down vs Off IS Tolerant
1554800_PM_at	RAB39	RAB39, member RAS oncogene family	0.00399	-1.21	Normal down vs Off IS Tolerant
240951_PM_at	RORA	RAR-related orphan receptor A	0.00399	-1.39	Normal down vs Off IS Tolerant
239278_PM_at	---	---	0.00399	1.88	Normal up vs Off IS Tolerant
225904_PM_at	C1orf96	chromosome 1 open reading frame 96	0.00399	1.41	Normal up vs Off IS Tolerant
1562270_PM_at	ARHGEF7	Rho guanine nucleotide exchange factor (GEF) 7	0.00399	1.48	Normal up vs Off IS Tolerant
1563674_PM_at	FCRL2	Fc receptor-like 2	0.00399	-1.91	Normal down vs Off IS Tolerant
208101_PM_s_at	URM1	ubiquitin related modifier 1	0.00399	-1.20	Normal down vs Off IS Tolerant
1555491_PM_a_at	C19orf66	chromosome 19 open reading frame 66	0.00399	1.37	Normal up vs Off IS Tolerant

207094_PM_at	CXCR1	chemokine (C-X-C motif) receptor 1	0.00400	-1.23	Normal down vs Off IS Tolerant
223319_PM_at	GPHN	gephyrin	0.00400	1.39	Normal up vs Off IS Tolerant
207177_PM_at	PTGFR	prostaglandin F receptor (FP)	0.00400	-1.21	Normal down vs Off IS Tolerant
221493_PM_at	TSPYL1	TSPY-like 1	0.00400	1.38	Normal up vs Off IS Tolerant
218069_PM_at	DCTPP1	dCTP pyrophosphatase 1	0.00401	-1.34	Normal down vs Off IS Tolerant
228348_PM_at	LINS	lines homolog (Drosophila)	0.00401	1.60	Normal up vs Off IS Tolerant
229968_PM_at	---	---	0.00401	-1.78	Normal down vs Off IS Tolerant
1559105_PM_at	LEKR1	leucine, glutamate and lysine rich 1	0.00401	-1.44	Normal down vs Off IS Tolerant
239036_PM_at	---	---	0.00401	-1.35	Normal down vs Off IS Tolerant
235493_PM_at	---	---	0.00402	1.58	Normal up vs Off IS Tolerant
226925_PM_at	ACPL2	acid phosphatase-like 2	0.00402	1.51	Normal up vs Off IS Tolerant
205619_PM_s_at	MEOX1	mesenchyme homeobox 1	0.00402	1.32	Normal up vs Off IS Tolerant
215579_PM_at	APOBEC3G	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3G	0.00402	-1.29	Normal down vs Off IS Tolerant
207188_PM_at	CDK3	cyclin-dependent kinase 3	0.00402	1.30	Normal up vs Off IS Tolerant
202662_PM_s_at	ITPR2	inositol 1,4,5-triphosphate receptor, type 2	0.00402	1.45	Normal up vs Off IS Tolerant
232195_PM_at	GPR158	G protein-coupled receptor 158	0.00403	-1.23	Normal down vs Off IS Tolerant
234584_PM_s_at	ATE1	arginyltransferase 1	0.00403	-1.27	Normal down vs Off IS Tolerant
232454_PM_at	---	---	0.00403	1.22	Normal up vs Off IS Tolerant
228303_PM_at	GALNT6	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 6 (Gal	0.00403	-1.33	Normal down vs Off IS Tolerant
218426_PM_s_at	RNF216	ring finger protein 216	0.00403	1.38	Normal up vs Off IS Tolerant
207982_PM_at	HIST1H1T	histone cluster 1, H1t	0.00403	1.37	Normal up vs Off IS Tolerant
211466_PM_at	NFIB	nuclear factor I/B	0.00404	-1.43	Normal down vs Off IS Tolerant

231782_PM_s_at	KLK4	kallikrein-related peptidase 4	0.00404	-1.24	Normal down vs Off IS Tolerant
240449_PM_at	ZNF341	zinc finger protein 341	0.00404	1.55	Normal up vs Off IS Tolerant
202565_PM_s_at	SVIL	supervillin	0.00405	1.48	Normal up vs Off IS Tolerant
230390_PM_at	---	---	0.00405	-1.25	Normal down vs Off IS Tolerant
215377_PM_at	CTBP2	C-terminal binding protein 2	0.00405	-1.19	Normal down vs Off IS Tolerant
235014_PM_at	LOC147727	hypothetical LOC147727	0.00406	1.54	Normal up vs Off IS Tolerant
225066_PM_at	PPP2R2D	protein phosphatase 2, regulatory subunit B, delta	0.00406	1.64	Normal up vs Off IS Tolerant
238296_PM_at	GLIPR1L1	GLI pathogenesis-related 1 like 1	0.00406	-1.26	Normal down vs Off IS Tolerant
1553523_PM_at	NLRP14	NLR family, pyrin domain containing 14	0.00406	-1.34	Normal down vs Off IS Tolerant
227225_PM_at	---	---	0.00406	-1.29	Normal down vs Off IS Tolerant
216582_PM_at	POM121L2	POM121 membrane glycoprotein-like 2	0.00406	-1.21	Normal down vs Off IS Tolerant
223087_PM_at	ECHDC1	enoyl CoA hydratase domain containing 1	0.00407	-1.56	Normal down vs Off IS Tolerant
215462_PM_at	PLK3	polo-like kinase 3	0.00407	1.68	Normal up vs Off IS Tolerant
223100_PM_s_at	NUDT5	nudix (nucleoside diphosphate linked moiety X)-type motif 5	0.00407	-1.33	Normal down vs Off IS Tolerant
243264_PM_s_at	C8orf44 /// SGK3	chromosome 8 open reading frame 44 /// serum/glucocorticoid regulated kinase family, me	0.00407	1.46	Normal up vs Off IS Tolerant
231482_PM_at	---	---	0.00408	-1.32	Normal down vs Off IS Tolerant
218404_PM_at	SNX10	sorting nexin 10	0.00408	-1.32	Normal down vs Off IS Tolerant
213109_PM_at	TNIK	TRAF2 and NCK interacting kinase	0.00409	1.49	Normal up vs Off IS Tolerant
227209_PM_at	CNTN1	Contactin 1	0.00409	-1.41	Normal down vs Off IS Tolerant

226146_PM_at	---	---	0.00409	-1.31	Normal down vs Off IS Tolerant
1558275_PM_at	---	---	0.00409	1.28	Normal up vs Off IS Tolerant
208002_PM_s_at	ACOT7	acyl-CoA thioesterase 7	0.00409	1.56	Normal up vs Off IS Tolerant
218225_PM_at	ECSIT	ECSIT homolog (Drosophila)	0.00410	1.35	Normal up vs Off IS Tolerant
230321_PM_at	TOR1AIP2	torsin A interacting protein 2	0.00410	-1.27	Normal down vs Off IS Tolerant
234286_PM_at	PPP1R12C	protein phosphatase 1, regulatory (inhibitor) subunit 12C	0.00410	-1.22	Normal down vs Off IS Tolerant
209881_PM_s_at	LAT /// SPNS1	linker for activation of T cells /// spinster homolog 1 (Drosophila)	0.00410	1.54	Normal up vs Off IS Tolerant
226972_PM_s_at	CCDC136	coiled-coil domain containing 136	0.00410	1.25	Normal up vs Off IS Tolerant
230090_PM_at	GDNF	glial cell derived neurotrophic factor	0.00411	-1.24	Normal down vs Off IS Tolerant
231002_PM_s_at	RABEP1	Rabaptin, RAB GTPase binding effector protein 1	0.00411	1.39	Normal up vs Off IS Tolerant
215358_PM_x_at	ZNF37BP	zinc finger protein 37B, pseudogene	0.00411	1.74	Normal up vs Off IS Tolerant
234991_PM_at	ZXDC	ZXD family zinc finger C	0.00412	1.77	Normal up vs Off IS Tolerant
234179_PM_at	---	---	0.00413	1.55	Normal up vs Off IS Tolerant
232151_PM_at	MACC1	metastasis associated in colon cancer 1	0.00413	-1.25	Normal down vs Off IS Tolerant
225343_PM_at	TMED8	transmembrane emp24 protein transport domain containing 8	0.00413	-1.24	Normal down vs Off IS Tolerant
1562908_PM_at	LOC339468	hypothetical protein LOC339468	0.00413	-1.41	Normal down vs Off IS Tolerant
231533_PM_at	---	---	0.00413	1.19	Normal up vs Off IS Tolerant
241692_PM_at	---	---	0.00413	1.67	Normal up vs Off IS Tolerant
1558540_PM_s_at	SLC2A11	solute carrier family 2 (facilitated glucose transporter), member 11	0.00414	1.34	Normal up vs Off IS Tolerant
225197_PM_at	---	---	0.00414	1.30	Normal up vs Off IS Tolerant
201420_PM_s_at	WDR77	WD repeat domain 77	0.00414	-1.41	Normal down vs Off IS Tolerant
214817_PM_at	UNC13A	unc-13 homolog A (C. elegans)	0.00415	-1.24	Normal down vs Off IS Tolerant

235125_PM_x_at	FAM73A	family with sequence similarity 73, member A	0.00415	1.59	Normal up vs Off IS Tolerant
210644_PM_s_at	LAIR1	leukocyte-associated immunoglobulin-like receptor 1	0.00415	-1.39	Normal down vs Off IS Tolerant
215076_PM_s_at	COL3A1	collagen, type III, alpha 1	0.00415	-1.59	Normal down vs Off IS Tolerant
222907_PM_x_at	TMEM50B	transmembrane protein 50B	0.00416	1.42	Normal up vs Off IS Tolerant
228835_PM_at	---	---	0.00416	1.55	Normal up vs Off IS Tolerant
241461_PM_at	---	---	0.00416	-1.31	Normal down vs Off IS Tolerant
235335_PM_at	ABCA9	ATP-binding cassette, sub-family A (ABC1), member 9	0.00416	-1.24	Normal down vs Off IS Tolerant
225856_PM_at	---	---	0.00416	1.45	Normal up vs Off IS Tolerant
222555_PM_s_at	MRPL44	mitochondrial ribosomal protein L44	0.00416	1.76	Normal up vs Off IS Tolerant
235979_PM_at	---	---	0.00416	-1.29	Normal down vs Off IS Tolerant
1562238_PM_at	USPL1	ubiquitin specific peptidase like 1	0.00416	1.46	Normal up vs Off IS Tolerant
201189_PM_s_at	ITPR3	inositol 1,4,5-triphosphate receptor, type 3	0.00416	1.53	Normal up vs Off IS Tolerant
1554126_PM_at	MSRB3	methionine sulfoxide reductase B3	0.00417	-1.61	Normal down vs Off IS Tolerant
212439_PM_at	IP6K1	inositol hexakisphosphate kinase 1	0.00418	1.33	Normal up vs Off IS Tolerant
212316_PM_at	NUP210	nucleoporin 210kDa	0.00418	1.34	Normal up vs Off IS Tolerant
1552627_PM_a_at	ARHGAP5	Rho GTPase activating protein 5	0.00418	1.51	Normal up vs Off IS Tolerant
236121_PM_at	OR51E2	olfactory receptor, family 51, subfamily E, member 2	0.00418	-1.24	Normal down vs Off IS Tolerant
1559642_PM_a_at	---	---	0.00418	-1.19	Normal down vs Off IS Tolerant
231579_PM_s_at	TIMP2	TIMP metalloproteinase inhibitor 2	0.00418	-1.39	Normal down vs Off IS Tolerant
227022_PM_at	GNPDA2	glucosamine-6-phosphate deaminase 2	0.00418	1.48	Normal up vs Off IS Tolerant
240379_PM_at	PKP4	plakophilin 4	0.00419	-1.27	Normal down vs Off IS Tolerant
203463_PM_s_at	EPN2	epsin 2	0.00420	1.33	Normal up vs Off IS Tolerant

221437_PM_s_at	MRPS15	mitochondrial ribosomal protein S15	0.00420	1.42	Normal up vs Off IS Tolerant
242287_PM_at	CLIP1	CAP-GLY domain containing linker protein 1	0.00420	1.38	Normal up vs Off IS Tolerant
240125_PM_at	---	---	0.00420	-1.56	Normal down vs Off IS Tolerant
223980_PM_s_at	SP110	SP110 nuclear body protein	0.00420	-1.45	Normal down vs Off IS Tolerant
1553457_PM_at	NCRNA00269	non-protein coding RNA 269	0.00421	-1.21	Normal down vs Off IS Tolerant
1564773_PM_x_at	---	---	0.00421	1.36	Normal up vs Off IS Tolerant
202182_PM_at	KAT2A	K(lysine) acetyltransferase 2A	0.00421	1.27	Normal up vs Off IS Tolerant
244105_PM_at	WHAMML1 /// WHAMML2	WAS protein homolog associated with actin, golgi membranes and microtubules-like 1 (pse	0.00421	1.36	Normal up vs Off IS Tolerant
225879_PM_at	TSEN54	tRNA splicing endonuclease 54 homolog (S. cerevisiae)	0.00421	1.51	Normal up vs Off IS Tolerant
225815_PM_at	CPLX2	complexin 2	0.00421	-1.19	Normal down vs Off IS Tolerant
216619_PM_at	GTPBP10	GTP-binding protein 10 (putative)	0.00422	-1.34	Normal down vs Off IS Tolerant
238267_PM_s_at	---	---	0.00422	-1.44	Normal down vs Off IS Tolerant
1555380_PM_at	ADAMTS4	ADAM metallopeptidase with thrombospondin type 1 motif, 4	0.00422	-1.20	Normal down vs Off IS Tolerant
40489_PM_at	ATN1	atrophin 1	0.00423	-1.16	Normal down vs Off IS Tolerant
227732_PM_at	ATXN7L1	ataxin 7-like 1	0.00423	1.34	Normal up vs Off IS Tolerant
213106_PM_at	ATP8A1	ATPase, aminophospholipid transporter (APLT), class I, type 8A, member 1	0.00423	1.38	Normal up vs Off IS Tolerant
233551_PM_at	LOC642776	hypothetical LOC642776	0.00423	-1.40	Normal down vs Off IS Tolerant
1555132_PM_at	---	---	0.00423	-1.22	Normal down vs Off IS Tolerant

212115_PM_at	HN1L	hematological and neurological expressed 1-like	0.00423	-1.51	Normal down vs Off IS Tolerant
212184_PM_s_at	TAB2	TGF-beta activated kinase 1/MAP3K7 binding protein 2	0.00423	1.30	Normal up vs Off IS Tolerant
235475_PM_at	SERP1	Stress-associated endoplasmic reticulum protein 1	0.00424	1.28	Normal up vs Off IS Tolerant
1553551_PM_s_at	ND2	MTND2	0.00424	1.29	Normal up vs Off IS Tolerant
240294_PM_at	HIPK2	homeodomain interacting protein kinase 2	0.00424	1.23	Normal up vs Off IS Tolerant
244021_PM_at	---	---	0.00424	1.53	Normal up vs Off IS Tolerant
221260_PM_s_at	CSRNP2	cysteine-serine-rich nuclear protein 2	0.00425	1.63	Normal up vs Off IS Tolerant
236147_PM_at	---	---	0.00425	-1.24	Normal down vs Off IS Tolerant
208136_PM_s_at	MGC3771	hypothetical LOC81854	0.00425	-1.21	Normal down vs Off IS Tolerant
237702_PM_at	RBM45	RNA binding motif protein 45	0.00425	-1.24	Normal down vs Off IS Tolerant
200042_PM_at	C22orf28	chromosome 22 open reading frame 28	0.00425	-1.30	Normal down vs Off IS Tolerant
215694_PM_at	SPATA5L1	spermatogenesis associated 5-like 1	0.00426	1.76	Normal up vs Off IS Tolerant
1570423_PM_at	---	---	0.00426	-1.70	Normal down vs Off IS Tolerant
227598_PM_at	C7orf29	chromosome 7 open reading frame 29	0.00426	1.39	Normal up vs Off IS Tolerant
212863_PM_x_at	CTBP1	C-terminal binding protein 1	0.00427	1.16	Normal up vs Off IS Tolerant
215640_PM_at	TBC1D2B	TBC1 domain family, member 2B	0.00427	1.60	Normal up vs Off IS Tolerant
1552672_PM_a_at	IGSF3	immunoglobulin superfamily, member 3	0.00427	-1.22	Normal down vs Off IS Tolerant
217085_PM_at	---	---	0.00428	-1.27	Normal down vs Off IS Tolerant
242904_PM_x_at	---	---	0.00428	1.71	Normal up vs Off IS Tolerant
1557080_PM_s_at	ITGBL1	integrin, beta-like 1 (with EGF-like repeat domains)	0.00428	-1.86	Normal down vs Off IS Tolerant
220730_PM_at	ZNF778	zinc finger protein 778	0.00428	1.32	Normal up vs Off IS Tolerant
234953_PM_x_at	ZNF19	zinc finger protein 19	0.00428	1.27	Normal up vs Off IS Tolerant

1562389_PM_at	---	---	0.00428	-1.82	Normal down vs Off IS Tolerant
243800_PM_at	NR1H4	nuclear receptor subfamily 1, group H, member 4	0.00428	-1.77	Normal down vs Off IS Tolerant
214475_PM_x_at	CAPN3	calpain 3, (p94)	0.00428	1.40	Normal up vs Off IS Tolerant
1563913_PM_at	---	---	0.00429	-1.25	Normal down vs Off IS Tolerant
244334_PM_at	TRAM1L1	translocation associated membrane protein 1-like 1	0.00430	-1.36	Normal down vs Off IS Tolerant
234395_PM_at	---	---	0.00430	-1.35	Normal down vs Off IS Tolerant
225529_PM_at	ACAP3	ArfGAP with coiled-coil, ankyrin repeat and PH domains 3	0.00430	1.50	Normal up vs Off IS Tolerant
218131_PM_s_at	GATAD2A	GATA zinc finger domain containing 2A	0.00430	1.29	Normal up vs Off IS Tolerant
1553705_PM_a_at	CHRM3	cholinergic receptor, muscarinic 3	0.00431	-1.29	Normal down vs Off IS Tolerant
203216_PM_s_at	MYO6	myosin VI	0.00431	1.44	Normal up vs Off IS Tolerant
202059_PM_s_at	KPNA1	karyopherin alpha 1 (importin alpha 5)	0.00431	1.38	Normal up vs Off IS Tolerant
222837_PM_s_at	NAA15	N(alpha)-acetyltransferase 15, NatA auxiliary subunit	0.00431	1.78	Normal up vs Off IS Tolerant
208629_PM_s_at	HADHA	hydroxyacyl-CoA dehydrogenase/3-ketoacyl-CoA thiolase/enoyl-CoA hydratase (trifunctional)	0.00431	-1.42	Normal down vs Off IS Tolerant
214630_PM_at	CYP11B2	cytochrome P450, family 11, subfamily B, polypeptide 2	0.00432	-1.32	Normal down vs Off IS Tolerant
205893_PM_at	NLGN1	neuroligin 1	0.00432	-1.40	Normal down vs Off IS Tolerant
218698_PM_at	APIP	APAF1 interacting protein	0.00432	-1.31	Normal down vs Off IS Tolerant
234640_PM_x_at	---	---	0.00432	-3.62	Normal down vs Off IS Tolerant
238652_PM_at	---	---	0.00433	1.36	Normal up vs Off IS Tolerant
1561489_PM_at	---	---	0.00433	-1.98	Normal down vs Off IS Tolerant

218648_PM_at	CRTC3	CREB regulated transcription coactivator 3	0.00433	1.30	Normal up vs Off IS Tolerant
231062_PM_at	LOC100129122	Hypothetical LOC100129122	0.00433	1.28	Normal up vs Off IS Tolerant
1557433_PM_at	---	---	0.00433	-1.60	Normal down vs Off IS Tolerant
209907_PM_s_at	ITSN2	intersectin 2	0.00433	1.23	Normal up vs Off IS Tolerant
34406_PM_at	PACS2	phosphofurin acidic cluster sorting protein 2	0.00434	1.31	Normal up vs Off IS Tolerant
216626_PM_at	---	---	0.00434	-1.33	Normal down vs Off IS Tolerant
222481_PM_at	FXC1	fracture callus 1 homolog (rat)	0.00434	1.40	Normal up vs Off IS Tolerant
202881_PM_x_at	---	---	0.00434	-1.32	Normal down vs Off IS Tolerant
238451_PM_at	MPP7	membrane protein, palmitoylated 7 (MAGUK p55 subfamily member 7)	0.00435	2.02	Normal up vs Off IS Tolerant
228624_PM_at	TMEM144	transmembrane protein 144	0.00435	-1.71	Normal down vs Off IS Tolerant
212313_PM_at	CHMP7	CHMP family, member 7	0.00436	1.50	Normal up vs Off IS Tolerant
236108_PM_at	KIAA1632	KIAA1632	0.00436	1.28	Normal up vs Off IS Tolerant
215466_PM_at	---	---	0.00436	-1.33	Normal down vs Off IS Tolerant
217736_PM_s_at	EIF2AK1	eukaryotic translation initiation factor 2-alpha kinase 1	0.00436	1.39	Normal up vs Off IS Tolerant
218260_PM_at	DDA1	DET1 and DDB1 associated 1	0.00436	1.77	Normal up vs Off IS Tolerant
229857_PM_s_at	LOC644246	Hypothetical protein LOC644246	0.00436	-1.23	Normal down vs Off IS Tolerant
1557406_PM_s_at	LOC100130111	hypothetical LOC100130111	0.00436	-1.31	Normal down vs Off IS Tolerant
226929_PM_at	MTHFR	methylenetetrahydrofolate reductase (NAD(P)H)	0.00436	1.45	Normal up vs Off IS Tolerant
220267_PM_at	KRT24	keratin 24	0.00436	-1.35	Normal down vs Off IS Tolerant
239715_PM_at	---	---	0.00437	-1.41	Normal down vs Off IS Tolerant

240147_PM_at	C7orf50	chromosome 7 open reading frame 50	0.00437	-1.36	Normal down vs Off IS Tolerant
209648_PM_x_at	SOCS5	suppressor of cytokine signaling 5	0.00438	1.53	Normal up vs Off IS Tolerant
1552716_PM_at	SPEF2	sperm flagellar 2	0.00438	1.35	Normal up vs Off IS Tolerant
210878_PM_s_at	KDM3B	lysine (K)-specific demethylase 3B	0.00438	1.18	Normal up vs Off IS Tolerant
238346_PM_s_at	TGS1	trimethylguanosine synthase 1	0.00438	1.37	Normal up vs Off IS Tolerant
202320_PM_at	GTF3C1	general transcription factor IIIC, polypeptide 1, alpha 220kDa	0.00438	1.46	Normal up vs Off IS Tolerant
239729_PM_at	---	---	0.00439	1.26	Normal up vs Off IS Tolerant
225246_PM_at	STIM2	stromal interaction molecule 2	0.00439	1.49	Normal up vs Off IS Tolerant
237394_PM_at	---	---	0.00439	-1.24	Normal down vs Off IS Tolerant
240762_PM_at	---	---	0.00439	1.64	Normal up vs Off IS Tolerant
235025_PM_at	WDR89	WD repeat domain 89	0.00440	1.35	Normal up vs Off IS Tolerant
213119_PM_at	SLC36A1	solute carrier family 36 (proton/amino acid symporter), member 1	0.00440	-1.45	Normal down vs Off IS Tolerant
1564544_PM_x_at	---	---	0.00440	-1.30	Normal down vs Off IS Tolerant
1555447_PM_at	GPR114	G protein-coupled receptor 114	0.00440	-1.20	Normal down vs Off IS Tolerant
1554475_PM_a_at	C19orf47	chromosome 19 open reading frame 47	0.00440	-1.34	Normal down vs Off IS Tolerant
213792_PM_s_at	INSR	insulin receptor	0.00440	-1.43	Normal down vs Off IS Tolerant
233145_PM_at	CSMD2	CUB and Sushi multiple domains 2	0.00440	-1.28	Normal down vs Off IS Tolerant
206728_PM_at	ECE2	endothelin converting enzyme 2	0.00441	-1.26	Normal down vs Off IS Tolerant
203908_PM_at	SLC4A4	solute carrier family 4, sodium bicarbonate cotransporter, member 4	0.00441	1.57	Normal up vs Off IS Tolerant
241200_PM_x_at	---	---	0.00441	-1.21	Normal down vs Off IS Tolerant
AFFX-r2-Ec-bioC- 5_at	---	---	0.00442	-1.91	Normal down vs Off IS Tolerant

1561572_PM_at	---	---	0.00442	-1.65	Normal down vs Off IS Tolerant
227076_PM_at	NCAPH2	non-SMC condensin II complex, subunit H2	0.00442	1.32	Normal up vs Off IS Tolerant
220119_PM_at	EPB41L4A	erythrocyte membrane protein band 4.1 like 4A	0.00442	-1.26	Normal down vs Off IS Tolerant
231064_PM_s_at	---	---	0.00443	-1.38	Normal down vs Off IS Tolerant
205360_PM_at	---	---	0.00443	-1.24	Normal down vs Off IS Tolerant
237205_PM_at	NCRNA00238	non-protein coding RNA 238	0.00443	-1.25	Normal down vs Off IS Tolerant
217261_PM_at	TTY2 /// TTTY2B	testis-specific transcript, Y-linked 2 (non-protein coding) /// testis-specific transcr	0.00443	-1.23	Normal down vs Off IS Tolerant
221317_PM_x_at	PCDHB6	protocadherin beta 6	0.00444	-1.24	Normal down vs Off IS Tolerant
235758_PM_at	LOC100287428	similar to paraneoplastic antigen-like protein 6A	0.00444	-1.20	Normal down vs Off IS Tolerant
230667_PM_at	C10orf84	chromosome 10 open reading frame 84	0.00444	1.37	Normal up vs Off IS Tolerant
1559688_PM_at	GRAPL	GRB2-related adaptor protein-like	0.00444	-4.94	Normal down vs Off IS Tolerant
242214_PM_at	RPS27A	ribosomal protein S27a	0.00444	1.57	Normal up vs Off IS Tolerant
207492_PM_at	NGLY1	N-glycanase 1	0.00444	1.79	Normal up vs Off IS Tolerant
223762_PM_at	TMOD4	tropomodulin 4 (muscle)	0.00444	1.28	Normal up vs Off IS Tolerant
239478_PM_x_at	---	---	0.00445	1.49	Normal up vs Off IS Tolerant
239469_PM_at	---	---	0.00445	1.49	Normal up vs Off IS Tolerant
204168_PM_at	MGST2	microsomal glutathione S-transferase 2	0.00445	-1.46	Normal down vs Off IS Tolerant
244238_PM_at	---	---	0.00445	-1.23	Normal down vs Off IS Tolerant
222270_PM_at	SMEK2	SMEK homolog 2, suppressor of mek1 (Dictyostelium)	0.00446	1.67	Normal up vs Off IS Tolerant

1560490_PM_at	FAT3	FAT tumor suppressor homolog 3 (Drosophila)	0.00446	-1.47	Normal down vs Off IS Tolerant
229182_PM_at	TMEM199	transmembrane protein 199	0.00446	1.47	Normal up vs Off IS Tolerant
233076_PM_at	JAKMIP3	Janus kinase and microtubule interacting protein 3	0.00446	-1.30	Normal down vs Off IS Tolerant
1559094_PM_at	FBXO9	F-box protein 9	0.00446	1.54	Normal up vs Off IS Tolerant
225634_PM_at	ZC3HAV1	zinc finger CCCH-type, antiviral 1	0.00447	1.33	Normal up vs Off IS Tolerant
220665_PM_at	LUZP4	leucine zipper protein 4	0.00447	-1.24	Normal down vs Off IS Tolerant
1554646_PM_at	OSBPL1A	oxysterol binding protein-like 1A	0.00448	-1.23	Normal down vs Off IS Tolerant
202764_PM_at	STIM1	stromal interaction molecule 1	0.00448	1.29	Normal up vs Off IS Tolerant
219280_PM_at	BRWD1	bromodomain and WD repeat domain containing 1	0.00449	1.49	Normal up vs Off IS Tolerant
214224_PM_s_at	PIN4	protein (peptidylprolyl cis/trans isomerase) NIMA-interacting, 4 (parvulin)	0.00449	-1.41	Normal down vs Off IS Tolerant
211938_PM_at	EIF4B	eukaryotic translation initiation factor 4B	0.00449	1.23	Normal up vs Off IS Tolerant
232897_PM_at	FLJ20444	hypothetical protein FLJ20444	0.00449	-1.52	Normal down vs Off IS Tolerant
227761_PM_at	MYO5A	myosin VA (heavy chain 12, myosin)	0.00450	1.37	Normal up vs Off IS Tolerant
209646_PM_x_at	ALDH1B1	aldehyde dehydrogenase 1 family, member B1	0.00450	-1.53	Normal down vs Off IS Tolerant
229038_PM_at	CWF19L1	CWF19-like 1, cell cycle control (S. pombe)	0.00450	1.51	Normal up vs Off IS Tolerant
227779_PM_at	---	---	0.00450	-1.24	Normal down vs Off IS Tolerant
201098_PM_at	COPB2	coatamer protein complex, subunit beta 2 (beta prime)	0.00451	-1.60	Normal down vs Off IS Tolerant
215518_PM_at	STXBPSL	syntaxin binding protein 5-like	0.00451	-1.28	Normal down vs Off IS Tolerant
203729_PM_at	EMP3	epithelial membrane protein 3	0.00451	-1.31	Normal down vs Off IS Tolerant

211639_PM_x_at	IGHA1 /// IGHA2 /// IGHD /// IGHG1 /// IGHG3 /// IGHG4 ///IGHM /// IGHV4- 31 /// IGHV4-59 /// LOC100126583	immunoglobulin heavy constant alpha 1 /// immunoglobulin heavy constant alpha 2 (A2m ma	0.00452	-1.69	Normal down vs Off IS Tolerant
1569971_PM_at	LOC100288721	hypothetical LOC100288721	0.00452	-1.65	Normal down vs Off IS Tolerant
223670_PM_s_at	HEMGN	hemogen	0.00452	2.76	Normal up vs Off IS Tolerant
202016_PM_at	MEST	mesoderm specific transcript homolog (mouse)	0.00452	1.55	Normal up vs Off IS Tolerant
202646_PM_s_at	CSDE1	cold shock domain containing E1, RNA- binding	0.00452	-1.18	Normal down vs Off IS Tolerant
1555613_PM_a_at	ZAP70	zeta-chain (TCR) associated protein kinase 70kDa	0.00452	1.74	Normal up vs Off IS Tolerant
212618_PM_at	ZNF609	zinc finger protein 609	0.00452	1.34	Normal up vs Off IS Tolerant
1560322_PM_at	RBMS3	RNA binding motif, single stranded interacting protein 3	0.00452	-1.60	Normal down vs Off IS Tolerant
225911_PM_at	NPNT	nephronectin	0.00453	-1.32	Normal down vs Off IS Tolerant
213957_PM_s_at	CEP350	centrosomal protein 350kDa	0.00453	-1.35	Normal down vs Off IS Tolerant
226465_PM_s_at	SON	SON DNA binding protein	0.00454	1.15	Normal up vs Off IS Tolerant
204067_PM_at	SUOX	sulfite oxidase	0.00454	-1.42	Normal down vs Off IS Tolerant
242434_PM_at	---	---	0.00454	1.27	Normal up vs Off IS Tolerant
240306_PM_at	---	---	0.00454	-1.29	Normal down vs Off IS Tolerant
226916_PM_x_at	DPP9	dipeptidyl-peptidase 9	0.00454	1.30	Normal up vs Off IS Tolerant
1558672_PM_at	---	---	0.00455	-1.64	Normal down vs Off IS Tolerant
223703_PM_at	C10orf11	chromosome 10 open reading frame 11	0.00455	-1.59	Normal down vs Off IS Tolerant

236101_PM_at	---	---	0.00456	-1.40	Normal down vs Off IS Tolerant
225215_PM_s_at	MTRF1L	mitochondrial translational release factor 1-like	0.00457	1.29	Normal up vs Off IS Tolerant
242646_PM_at	---	---	0.00457	1.67	Normal up vs Off IS Tolerant
216095_PM_x_at	MTMR1	myotubularin related protein 1	0.00458	1.20	Normal up vs Off IS Tolerant
236126_PM_at	ACVR2B	activin A receptor, type IIB	0.00458	1.45	Normal up vs Off IS Tolerant
218561_PM_s_at	LYRM4	LYR motif containing 4	0.00458	1.51	Normal up vs Off IS Tolerant
225147_PM_at	CYTH3	cytohesin 3	0.00458	1.57	Normal up vs Off IS Tolerant
244187_PM_at	APOOL	Apolipoprotein O-like	0.00458	-1.39	Normal down vs Off IS Tolerant
229025_PM_s_at	IMMP1L	IMP1 inner mitochondrial membrane peptidase-like (<i>S. cerevisiae</i>)	0.00459	1.47	Normal up vs Off IS Tolerant
229097_PM_at	DIAPH3	diaphanous homolog 3 (<i>Drosophila</i>)	0.00459	-1.26	Normal down vs Off IS Tolerant
207590_PM_s_at	CENPI	centromere protein I	0.00459	-1.29	Normal down vs Off IS Tolerant
1563068_PM_at	---	---	0.00459	-1.19	Normal down vs Off IS Tolerant
239848_PM_at	---	---	0.00459	1.56	Normal up vs Off IS Tolerant
1561894_PM_at	LOC653739	hypothetical LOC653739	0.00459	-1.92	Normal down vs Off IS Tolerant
238220_PM_at	KDM6A	lysine (K)-specific demethylase 6A	0.00460	1.78	Normal up vs Off IS Tolerant
244726_PM_at	---	---	0.00460	-1.64	Normal down vs Off IS Tolerant
1569917_PM_at	---	---	0.00460	-1.34	Normal down vs Off IS Tolerant
239660_PM_at	RALGAPA2	Ral GTPase activating protein, alpha subunit 2 (catalytic)	0.00460	1.46	Normal up vs Off IS Tolerant
179_PM_at	PMS2P11	postmeiotic segregation increased 2 pseudogene 11	0.00460	1.20	Normal up vs Off IS Tolerant
1560977_PM_a_at	BCL2L13	BCL2-like 13 (apoptosis facilitator)	0.00461	-1.60	Normal down vs Off IS Tolerant
200714_PM_x_at	OS9	osteosarcoma amplified 9, endoplasmic reticulum lectin	0.00462	-1.19	Normal down vs Off IS Tolerant

225602_PM_at	GLIPR2	GLI pathogenesis-related 2	0.00462	-1.27	Normal down vs Off IS Tolerant
242403_PM_at	---	---	0.00462	1.49	Normal up vs Off IS Tolerant
232309_PM_at	LOC202181	hypothetical LOC202181	0.00462	1.49	Normal up vs Off IS Tolerant
222392_PM_x_at	PERP	PERP, TP53 apoptosis effector	0.00462	1.45	Normal up vs Off IS Tolerant
226915_PM_s_at	ARPC5L	actin related protein 2/3 complex, subunit 5-like	0.00462	1.29	Normal up vs Off IS Tolerant
211945_PM_s_at	ITGB1	integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, M	0.00462	1.23	Normal up vs Off IS Tolerant
220877_PM_at	---	---	0.00462	-1.58	Normal down vs Off IS Tolerant
235615_PM_at	PGGT1B	protein geranylgeranyltransferase type I, beta subunit	0.00463	1.72	Normal up vs Off IS Tolerant
243134_PM_at	---	---	0.00463	1.80	Normal up vs Off IS Tolerant
1554006_PM_a_at	LLGL2	lethal giant larvae homolog 2 (Drosophila)	0.00463	1.37	Normal up vs Off IS Tolerant
218157_PM_x_at	CDC42SE1	CDC42 small effector 1	0.00463	1.21	Normal up vs Off IS Tolerant
226937_PM_at	CRLS1	Cardiolipin synthase 1	0.00463	-1.35	Normal down vs Off IS Tolerant
1562896_PM_at	TNRC18	trinucleotide repeat containing 18	0.00463	-1.29	Normal down vs Off IS Tolerant
241099_PM_at	---	---	0.00464	-1.32	Normal down vs Off IS Tolerant
216059_PM_at	PAX3	paired box 3	0.00464	-1.22	Normal down vs Off IS Tolerant
1558660_PM_at	---	---	0.00464	-1.30	Normal down vs Off IS Tolerant
210013_PM_at	HPX	hemopexin	0.00464	-1.40	Normal down vs Off IS Tolerant
1553917_PM_at	PIKFYVE	phosphoinositide kinase, FYVE finger containing	0.00465	-1.37	Normal down vs Off IS Tolerant
222198_PM_at	---	---	0.00466	-1.20	Normal down vs Off IS Tolerant

206714_PM_at	ALOX15B	arachidonate 15-lipoxygenase, type B	0.00466	-1.19	Normal down vs Off IS Tolerant
1561219_PM_x_at	---	---	0.00466	-1.25	Normal down vs Off IS Tolerant
1570630_PM_at	---	---	0.00467	-1.21	Normal down vs Off IS Tolerant
243163_PM_at	---	---	0.00467	-1.19	Normal down vs Off IS Tolerant
1554261_PM_at	KLHL29	kelch-like 29 (Drosophila)	0.00467	-1.24	Normal down vs Off IS Tolerant
1558066_PM_s_at	TBC1D16	TBC1 domain family, member 16	0.00467	-1.23	Normal down vs Off IS Tolerant
239467_PM_at	---	---	0.00467	1.51	Normal up vs Off IS Tolerant
212836_PM_at	POLD3	polymerase (DNA-directed), delta 3, accessory subunit	0.00468	-1.42	Normal down vs Off IS Tolerant
240877_PM_x_at	---	---	0.00468	-1.30	Normal down vs Off IS Tolerant
218384_PM_at	CARHSP1	calcium regulated heat stable protein 1, 24kDa	0.00468	-1.41	Normal down vs Off IS Tolerant
219149_PM_x_at	DBR1	debranching enzyme homolog 1 (S. cerevisiae)	0.00468	1.48	Normal up vs Off IS Tolerant
214086_PM_s_at	PARP2	poly (ADP-ribose) polymerase 2	0.00468	1.38	Normal up vs Off IS Tolerant
230466_PM_s_at	---	---	0.00469	-1.46	Normal down vs Off IS Tolerant
236798_PM_at	---	---	0.00469	1.55	Normal up vs Off IS Tolerant
213340_PM_s_at	KIAA0495	KIAA0495	0.00470	1.29	Normal up vs Off IS Tolerant
203386_PM_at	TBC1D4	TBC1 domain family, member 4	0.00471	1.74	Normal up vs Off IS Tolerant
229975_PM_at	BMPR1B	bone morphogenetic protein receptor, type IB	0.00471	-1.76	Normal down vs Off IS Tolerant
228708_PM_at	RAB27B	RAB27B, member RAS oncogene family	0.00471	1.69	Normal up vs Off IS Tolerant
231736_PM_x_at	MGST1	microsomal glutathione S-transferase 1	0.00471	-1.71	Normal down vs Off IS Tolerant
202130_PM_at	RIOK3	RIO kinase 3 (yeast)	0.00471	1.36	Normal up vs Off IS Tolerant
244676_PM_s_at	MTUS2	microtubule associated tumor suppressor candidate 2	0.00472	-1.19	Normal down vs Off IS Tolerant

239615_PM_at	---	---	0.00472	1.31	Normal up vs Off IS Tolerant
224903_PM_at	CIRH1A	cirrhosis, autosomal recessive 1A (cirhin)	0.00472	1.29	Normal up vs Off IS Tolerant
205627_PM_at	CDA	cytidine deaminase	0.00473	-1.89	Normal down vs Off IS Tolerant
212410_PM_at	EFHA1	EF-hand domain family, member A1	0.00473	1.24	Normal up vs Off IS Tolerant
216180_PM_s_at	SYNJ2	synaptojanin 2	0.00473	1.43	Normal up vs Off IS Tolerant
1555920_PM_at	CBX3	Chromobox homolog 3 (HP1 gamma homolog, Drosophila)	0.00474	1.40	Normal up vs Off IS Tolerant
228345_PM_at	CHIC1	cysteine-rich hydrophobic domain 1	0.00474	1.54	Normal up vs Off IS Tolerant
223008_PM_s_at	C9orf5	chromosome 9 open reading frame 5	0.00474	1.40	Normal up vs Off IS Tolerant
240440_PM_at	NPL	N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase)	0.00474	-1.64	Normal down vs Off IS Tolerant
213024_PM_at	TMF1	TATA element modulatory factor 1	0.00474	1.69	Normal up vs Off IS Tolerant
218076_PM_s_at	ARHGAP17	Rho GTPase activating protein 17	0.00474	-1.27	Normal down vs Off IS Tolerant
235686_PM_at	C2orf60	chromosome 2 open reading frame 60	0.00475	1.40	Normal up vs Off IS Tolerant
237097_PM_at	---	---	0.00475	1.50	Normal up vs Off IS Tolerant
228771_PM_at	ADRBK2	adrenergic, beta, receptor kinase 2	0.00475	-1.52	Normal down vs Off IS Tolerant
216550_PM_x_at	ANKRD12	ankyrin repeat domain 12	0.00475	1.31	Normal up vs Off IS Tolerant
213143_PM_at	C2orf72	chromosome 2 open reading frame 72	0.00476	-1.30	Normal down vs Off IS Tolerant
242923_PM_at	ZNF678	zinc finger protein 678	0.00476	-1.60	Normal down vs Off IS Tolerant
207578_PM_s_at	HTR4	5-hydroxytryptamine (serotonin) receptor 4	0.00476	-1.30	Normal down vs Off IS Tolerant
235033_PM_at	NPEPL1	Aminopeptidase-like 1	0.00476	1.39	Normal up vs Off IS Tolerant
201266_PM_at	TXNRD1	thioredoxin reductase 1	0.00477	-1.33	Normal down vs Off IS Tolerant
235289_PM_at	EIF5A2	eukaryotic translation initiation factor 5A2	0.00477	1.40	Normal up vs Off IS Tolerant
AFFX-BioC-5_at	---	---	0.00477	-1.89	Normal down vs Off IS Tolerant
223161_PM_at	KIAA1147	KIAA1147	0.00478	1.48	Normal up vs Off IS Tolerant

218331_PM_s_at	C10orf18	chromosome 10 open reading frame 18	0.00478	1.41	Normal up vs Off IS Tolerant
208933_PM_s_at	LGALS8	lectin, galactoside-binding, soluble, 8	0.00478	1.20	Normal up vs Off IS Tolerant
1554380_PM_at	NEK11	NIMA (never in mitosis gene a)- related kinase 11	0.00478	-1.33	Normal down vs Off IS Tolerant
235009_PM_at	BOD1L	biorientation of chromosomes in cell division 1-like	0.00479	-1.36	Normal down vs Off IS Tolerant
239580_PM_at	GUCY1A3	guanylate cyclase 1, soluble, alpha 3	0.00479	-1.49	Normal down vs Off IS Tolerant
202245_PM_at	LSS	lanosterol synthase (2,3-oxidosqualene-lanosterol cyclase)	0.00480	1.29	Normal up vs Off IS Tolerant
217384_PM_x_at	IGHV3-48 /// IGKV3-20	Immunoglobulin heavy variable 3-48 /// Immunoglobulin kappa variable 3-20	0.00480	-1.28	Normal down vs Off IS Tolerant
226806_PM_s_at	NFIA	nuclear factor I/A	0.00480	1.33	Normal up vs Off IS Tolerant
209555_PM_s_at	CD36	CD36 molecule (thrombospondin receptor)	0.00481	-1.73	Normal down vs Off IS Tolerant
217610_PM_at	---	---	0.00481	1.67	Normal up vs Off IS Tolerant
211166_PM_at	FAM153A	family with sequence similarity 153, member A	0.00481	-1.36	Normal down vs Off IS Tolerant
1552800_PM_at	ABHD11	abhydrolase domain containing 11	0.00482	-1.38	Normal down vs Off IS Tolerant
213313_PM_at	RABGAP1	RAB GTPase activating protein 1	0.00482	-1.25	Normal down vs Off IS Tolerant
216623_PM_x_at	TOX3	TOX high mobility group box family member 3	0.00483	-1.28	Normal down vs Off IS Tolerant
1554195_PM_a_at	C5orf46	chromosome 5 open reading frame 46	0.00483	-1.26	Normal down vs Off IS Tolerant
225752_PM_at	NIPA1	non imprinted in Prader-Willi/Angelman syndrome 1	0.00483	1.38	Normal up vs Off IS Tolerant
210310_PM_s_at	FGF5	fibroblast growth factor 5	0.00483	-1.22	Normal down vs Off IS Tolerant
1558518_PM_at	TAB3	TGF-beta activated kinase 1/MAP3K7 binding protein 3	0.00483	1.29	Normal up vs Off IS Tolerant

208932_PM_at	PPP4C	protein phosphatase 4, catalytic subunit	0.00483	-1.42	Normal down vs Off IS Tolerant
221984_PM_s_at	FAM134A	family with sequence similarity 134, member A	0.00484	1.34	Normal up vs Off IS Tolerant
221158_PM_at	GCFC1	GC-rich sequence DNA-binding factor 1	0.00485	1.63	Normal up vs Off IS Tolerant
202949_PM_s_at	FHL2	four and a half LIM domains 2	0.00485	1.56	Normal up vs Off IS Tolerant
223388_PM_s_at	ZFYVE1	zinc finger, FYVE domain containing 1	0.00485	1.26	Normal up vs Off IS Tolerant
1569796_PM_s_at	ATRNL1	attractin-like 1	0.00485	-1.58	Normal down vs Off IS Tolerant
238561_PM_s_at	UTP23	UTP23, small subunit (SSU) processome component, homolog (yeast)	0.00485	1.30	Normal up vs Off IS Tolerant
203755_PM_at	BUB1B	budding uninhibited by benzimidazoles 1 homolog beta (yeast)	0.00485	-1.35	Normal down vs Off IS Tolerant
222913_PM_at	KLF3	Kruppel-like factor 3 (basic)	0.00485	1.26	Normal up vs Off IS Tolerant
221619_PM_s_at	MTCH1	mitochondrial carrier homolog 1 (C. elegans)	0.00486	1.21	Normal up vs Off IS Tolerant
1553768_PM_a_at	DCBLD1	discoidin, CUB and LCCL domain containing 1	0.00486	-1.29	Normal down vs Off IS Tolerant
221789_PM_x_at	RHOT2	ras homolog gene family, member T2	0.00486	1.26	Normal up vs Off IS Tolerant
242473_PM_at	TRAF4	TNF receptor-associated factor 4	0.00486	1.49	Normal up vs Off IS Tolerant
228497_PM_at	SLC22A15	solute carrier family 22, member 15	0.00486	-1.69	Normal down vs Off IS Tolerant
38487_PM_at	STAB1	stabilin 1	0.00487	-1.62	Normal down vs Off IS Tolerant
228743_PM_at	TXNDC17	thioredoxin domain containing 17	0.00487	-1.28	Normal down vs Off IS Tolerant
243957_PM_at	LOC400464	hypothetical LOC400464	0.00487	1.40	Normal up vs Off IS Tolerant
223367_PM_at	DNAJC30	DnaJ (Hsp40) homolog, subfamily C, member 30	0.00487	1.40	Normal up vs Off IS Tolerant
1568763_PM_s_at	LOC728613 /// PDCD6	programmed cell death 6 pseudogene /// programmed cell death 6	0.00488	1.46	Normal up vs Off IS Tolerant

214406_PM_s_at	SLC7A4	solute carrier family 7 (cationic amino acid transporter, y+ system), member 4	0.00488	-1.20	Normal down vs Off IS Tolerant
239252_PM_at	COX7B	cytochrome c oxidase subunit VIIb	0.00488	1.57	Normal up vs Off IS Tolerant
1566177_PM_at	---	---	0.00488	-1.37	Normal down vs Off IS Tolerant
205697_PM_at	SCGN	secretagogen, EF-hand calcium binding protein	0.00488	-1.23	Normal down vs Off IS Tolerant
201371_PM_s_at	CUL3	cullin 3	0.00488	1.19	Normal up vs Off IS Tolerant
1556075_PM_at	---	---	0.00488	-1.19	Normal down vs Off IS Tolerant
226867_PM_at	DENND4C	DENN/MADD domain containing 4C	0.00489	1.39	Normal up vs Off IS Tolerant
1554580_PM_a_at	WWP2	WW domain containing E3 ubiquitin protein ligase 2	0.00489	-1.46	Normal down vs Off IS Tolerant
212477_PM_at	ACAP2	ArfGAP with coiled-coil, ankyrin repeat and PH domains 2	0.00489	-1.26	Normal down vs Off IS Tolerant
229123_PM_at	---	---	0.00489	1.62	Normal up vs Off IS Tolerant
218562_PM_s_at	TMEM57	transmembrane protein 57	0.00489	1.50	Normal up vs Off IS Tolerant
223635_PM_s_at	SSBP3	single stranded DNA binding protein 3	0.00490	1.29	Normal up vs Off IS Tolerant
1569660_PM_at	PP13439	hypothetical LOC100128046	0.00490	-1.23	Normal down vs Off IS Tolerant
210252_PM_s_at	MADD	MAP-kinase activating death domain	0.00490	1.20	Normal up vs Off IS Tolerant
240289_PM_at	PDLIM3	PDZ and LIM domain 3	0.00491	-1.36	Normal down vs Off IS Tolerant
212988_PM_x_at	ACTG1	actin, gamma 1	0.00491	-1.11	Normal down vs Off IS Tolerant
205407_PM_at	RECK	reversion-inducing-cysteine-rich protein with kazal motifs	0.00491	1.54	Normal up vs Off IS Tolerant
234041_PM_at	---	---	0.00492	1.55	Normal up vs Off IS Tolerant
213878_PM_at	PYROXD1	pyridine nucleotide-disulphide oxidoreductase domain 1	0.00492	1.35	Normal up vs Off IS Tolerant
214049_PM_x_at	CD7	CD7 molecule	0.00493	1.32	Normal up vs Off IS Tolerant
216490_PM_x_at	---	---	0.00493	1.21	Normal up vs Off IS Tolerant
212068_PM_s_at	BAT2L1	HLA-B associated transcript 2-like 1	0.00493	1.33	Normal up vs Off IS Tolerant

AFFX-r2-Ec-bioB-3_at	---	---	0.00493	-1.88	Normal down vs Off IS Tolerant
211448_PM_s_at	RGS6	regulator of G-protein signaling 6	0.00493	-1.32	Normal down vs Off IS Tolerant
1561882_PM_at	SYTL3	synaptotagmin-like 3	0.00495	1.85	Normal up vs Off IS Tolerant
226158_PM_at	KLHL24	kelch-like 24 (Drosophila)	0.00495	1.50	Normal up vs Off IS Tolerant
211000_PM_s_at	IL6ST	interleukin 6 signal transducer (gp130, oncostatin M receptor)	0.00495	1.79	Normal up vs Off IS Tolerant
1558342_PM_x_at	DIXDC1	DIX domain containing 1	0.00495	-1.27	Normal down vs Off IS Tolerant
220920_PM_at	ATP10B	ATPase, class V, type 10B	0.00495	-1.53	Normal down vs Off IS Tolerant
217508_PM_s_at	C18orf25	chromosome 18 open reading frame 25	0.00495	1.36	Normal up vs Off IS Tolerant
1552568_PM_at	RTP3	receptor (chemosensory) transporter protein 3	0.00496	-1.24	Normal down vs Off IS Tolerant
220525_PM_s_at	AUP1	ancient ubiquitous protein 1	0.00496	1.20	Normal up vs Off IS Tolerant
222431_PM_at	SPIN1	spindlin 1	0.00496	1.25	Normal up vs Off IS Tolerant
1559190_PM_s_at	RDH13	retinol dehydrogenase 13 (all-trans/9-cis)	0.00496	1.58	Normal up vs Off IS Tolerant
205345_PM_at	BARD1	BRCA1 associated RING domain 1	0.00496	-1.37	Normal down vs Off IS Tolerant
219560_PM_at	C22orf29	chromosome 22 open reading frame 29	0.00496	1.19	Normal up vs Off IS Tolerant
233501_PM_at	---	---	0.00496	-1.24	Normal down vs Off IS Tolerant
1554670_PM_at	GGA1	golgi-associated, gamma adaptin ear containing, ARF binding protein 1	0.00497	2.06	Normal up vs Off IS Tolerant
242711_PM_x_at	FANCM	Fanconi anemia, complementation group M	0.00497	1.36	Normal up vs Off IS Tolerant
1565848_PM_at	ZNF428	zinc finger protein 428	0.00497	-1.32	Normal down vs Off IS Tolerant
202585_PM_s_at	NFX1	nuclear transcription factor, X-box binding 1	0.00497	1.49	Normal up vs Off IS Tolerant

234773_PM_x_at	---	---	0.00498	-2.03	Normal down vs Off IS Tolerant
1554050_PM_at	SMPDL3B	sphingomyelin phosphodiesterase, acid-like 3B	0.00498	-1.22	Normal down vs Off IS Tolerant
238472_PM_at	FBXO9	F-box protein 9	0.00498	1.79	Normal up vs Off IS Tolerant
221660_PM_at	MYL10	myosin, light chain 10, regulatory	0.00498	-1.79	Normal down vs Off IS Tolerant
211548_PM_s_at	HPGD	hydroxyprostaglandin dehydrogenase 15-(NAD)	0.00498	1.55	Normal up vs Off IS Tolerant
1570052_PM_at	MIPOL1	mirror-image polydactyly 1	0.00499	-1.54	Normal down vs Off IS Tolerant
212325_PM_at	LIMCH1	LIM and calponin homology domains 1	0.00499	-1.34	Normal down vs Off IS Tolerant
221751_PM_at	PANK3	pantothenate kinase 3	0.00499	1.18	Normal up vs Off IS Tolerant
242605_PM_at	---	---	0.00500	-1.59	Normal down vs Off IS Tolerant
238468_PM_at	TNRC6B	trinucleotide repeat containing 6B	0.00500	1.35	Normal up vs Off IS Tolerant

Supplementary Table S6: 4529 Healthy Controls vs Tolerant Unique Genes (2nd 2 Years off IS)

Probeset ID	Gene Symbol	Gene Title	p-value (Normal vs. > 5 Years Off IS Tolerant)	Fold-Change (Normal vs. > 5 Years Off IS Tolerant)	Fold-Change (Normal vs. > 5 Years Off IS Tolerant) (Description)
229312_PM_s_at	GKAP1	G kinase anchoring protein 1	4.84E-11	2.41	Normal up vs > 5 Years Off IS Tolerant
219623_PM_at	ACTR5	ARP5 actin-related protein 5 homolog (yeast)	5.82E-10	1.93	Normal up vs > 5 Years Off IS Tolerant
242904_PM_x_at	---	---	1.06E-09	4.73	Normal up vs > 5 Years Off IS Tolerant
217902_PM_s_at	HERC2	hect domain and RLD 2	1.89E-09	2.72	Normal up vs > 5 Years Off IS Tolerant
223135_PM_s_at	BBX	bobby sox homolog (Drosophila)	2.00E-09	1.69	Normal up vs > 5 Years Off IS Tolerant
207000_PM_s_at	PPP3CC	protein phosphatase 3, catalytic subunit, gamma isozyme	3.66E-09	2.30	Normal up vs > 5 Years Off IS Tolerant
219147_PM_s_at	C9orf95	chromosome 9 open reading frame 95	4.27E-09	3.63	Normal up vs > 5 Years Off IS Tolerant
208313_PM_s_at	SF1	splicing factor 1	5.13E-09	1.59	Normal up vs > 5 Years Off IS Tolerant
213036_PM_x_at	ATP2A3	ATPase, Ca++ transporting, ubiquitous	6.84E-09	2.25	Normal up vs > 5 Years Off IS Tolerant
1568870_PM_at	SLC24A4	solute carrier family 24 (sodium/potassium/calcium exchanger), member 4	7.61E-09	-2.66	Normal down vs > 5 Years Off IS Tolerant
202501_PM_at	MAPRE2	microtubule-associated protein, RP/EB family, member 2	1.05E-08	1.73	Normal up vs > 5 Years Off IS Tolerant
212413_PM_at	6-Sep	septin 6	1.39E-08	3.08	Normal up vs > 5 Years Off IS Tolerant
221757_PM_at	PIK3IP1	phosphoinositide-3-kinase interacting protein 1	1.58E-08	3.62	Normal up vs > 5 Years Off IS Tolerant
200672_PM_x_at	SPTBN1	spectrin, beta, non-erythrocytic 1	1.70E-08	2.72	Normal up vs > 5 Years Off IS Tolerant
211919_PM_s_at	CXCR4	chemokine (C-X-C motif) receptor 4	2.08E-08	2.74	Normal up vs > 5 Years Off IS Tolerant
1560404_PM_a_at	ATPBD4	ATP binding domain 4	2.50E-08	-2.63	Normal down vs > 5 Years Off IS Tolerant
211202_PM_s_at	KDM5B	lysine (K)-specific demethylase 5B	2.51E-08	1.91	Normal up vs > 5 Years Off IS Tolerant

212066_PM_s_at	USP34	ubiquitin specific peptidase 34	2.69E-08	1.41	Normal up vs > 5 Years Off IS Tolerant
213434_PM_at	STX2	syntaxin 2	2.87E-08	2.66	Normal up vs > 5 Years Off IS Tolerant
203579_PM_s_at	SLC7A6	solute carrier family 7 (cationic amino acid transporter, y+ system), member 6	3.07E-08	3.22	Normal up vs > 5 Years Off IS Tolerant
225982_PM_at	UBTF	upstream binding transcription factor, RNA polymerase I	3.23E-08	1.76	Normal up vs > 5 Years Off IS Tolerant
229844_PM_at	FOXP1	forkhead box P1	3.95E-08	2.31	Normal up vs > 5 Years Off IS Tolerant
212414_PM_s_at	GLYR1 /// SEPT6	glyoxylate reductase 1 homolog (Arabidopsis) /// septin 6	4.85E-08	2.52	Normal up vs > 5 Years Off IS Tolerant
213106_PM_at	ATP8A1	ATPase, aminophospholipid transporter (APLT), class I, type 8A, member 1	5.07E-08	2.28	Normal up vs > 5 Years Off IS Tolerant
226051_PM_at	SELM	selenoprotein M	5.76E-08	3.09	Normal up vs > 5 Years Off IS Tolerant
225326_PM_at	RBM27	RNA binding motif protein 27	6.07E-08	2.02	Normal up vs > 5 Years Off IS Tolerant
226134_PM_s_at	---	---	6.27E-08	2.73	Normal up vs > 5 Years Off IS Tolerant
209201_PM_x_at	CXCR4	chemokine (C-X-C motif) receptor 4	7.01E-08	2.67	Normal up vs > 5 Years Off IS Tolerant
210279_PM_at	GPR18	G protein-coupled receptor 18	8.94E-08	4.05	Normal up vs > 5 Years Off IS Tolerant
207912_PM_s_at	DAZ1 /// DAZ2 /// DAZ3 /// DAZ4	deleted in azoospermia 1 /// deleted in azoospermia 2 /// deleted in azoospermia 3 ///	9.57E-08	-2.19	Normal down vs > 5 Years Off IS Tolerant
1553296_PM_at	GPR128	G protein-coupled receptor 128	1.03E-07	-3.08	Normal down vs > 5 Years Off IS Tolerant
209608_PM_s_at	ACAT2	acetyl-CoA acetyltransferase 2	1.10E-07	1.85	Normal up vs > 5 Years Off IS Tolerant
241364_PM_at	TMEM57	transmembrane protein 57	1.14E-07	2.38	Normal up vs > 5 Years Off IS Tolerant
204951_PM_at	RHOH	ras homolog gene family, member H	1.17E-07	3.67	Normal up vs > 5 Years Off IS Tolerant
202693_PM_s_at	STK17A	serine/threonine kinase 17a	1.22E-07	2.43	Normal up vs > 5 Years Off IS Tolerant
219513_PM_s_at	SH2D3A	SH2 domain containing 3A	1.31E-07	2.60	Normal up vs > 5 Years Off IS Tolerant

214298_PM_x_at	6-Sep	septin 6	1.32E-07	2.72	Normal up vs > 5 Years Off IS Tolerant
217028_PM_at	CXCR4	chemokine (C-X-C motif) receptor 4	1.54E-07	2.07	Normal up vs > 5 Years Off IS Tolerant
221756_PM_at	PIK3IP1	phosphoinositide-3-kinase interacting protein 1	1.60E-07	2.74	Normal up vs > 5 Years Off IS Tolerant
223130_PM_s_at	MYLIP	myosin regulatory light chain interacting protein	1.63E-07	2.29	Normal up vs > 5 Years Off IS Tolerant
230285_PM_at	SVIP	small VCP/p97-interacting protein	1.65E-07	3.99	Normal up vs > 5 Years Off IS Tolerant
AFFX- HSAC07/X00351_3_at	ACTB	actin, beta	2.18E-07	-1.20	Normal down vs > 5 Years Off IS Tolerant
207522_PM_s_at	ATP2A3	ATPase, Ca++ transporting, ubiquitous	2.31E-07	2.36	Normal up vs > 5 Years Off IS Tolerant
202724_PM_s_at	FOXO1	forkhead box O1	2.52E-07	2.38	Normal up vs > 5 Years Off IS Tolerant
219442_PM_at	KIAA0664L3	KIAA0664-like 3	2.54E-07	3.32	Normal up vs > 5 Years Off IS Tolerant
202711_PM_at	EFNB1	ephrin-B1	2.61E-07	-1.50	Normal down vs > 5 Years Off IS Tolerant
213199_PM_at	C2CD3	C2 calcium-dependent domain containing 3	2.74E-07	1.73	Normal up vs > 5 Years Off IS Tolerant
215699_PM_x_at	SFI1	Sfi1 homolog, spindle assembly associated (yeast)	2.77E-07	2.24	Normal up vs > 5 Years Off IS Tolerant
223129_PM_x_at	MYLIP	myosin regulatory light chain interacting protein	2.87E-07	2.09	Normal up vs > 5 Years Off IS Tolerant
243399_PM_at	---	---	2.91E-07	-1.90	Normal down vs > 5 Years Off IS Tolerant
36545_PM_s_at	SFI1	Sfi1 homolog, spindle assembly associated (yeast)	3.05E-07	2.48	Normal up vs > 5 Years Off IS Tolerant
225458_PM_at	LOC25845	hypothetical LOC25845	3.09E-07	3.05	Normal up vs > 5 Years Off IS Tolerant
201189_PM_s_at	ITPR3	inositol 1,4,5-triphosphate receptor, type 3	3.14E-07	2.72	Normal up vs > 5 Years Off IS Tolerant
227353_PM_at	TMC8	transmembrane channel-like 8	3.20E-07	2.16	Normal up vs > 5 Years Off IS Tolerant
221919_PM_at	LOC100506653	hypothetical LOC100506653	3.48E-07	3.29	Normal up vs > 5 Years Off IS Tolerant

227109_PM_at	CYP2R1	cytochrome P450, family 2, subfamily R, polypeptide 1	3.78E-07	1.87	Normal up vs > 5 Years Off IS Tolerant
223092_PM_at	ANKH	ankylosis, progressive homolog (mouse)	4.26E-07	2.85	Normal up vs > 5 Years Off IS Tolerant
222649_PM_at	XPO4	exportin 4	4.61E-07	1.63	Normal up vs > 5 Years Off IS Tolerant
226732_PM_at	RBM33	RNA binding motif protein 33	4.67E-07	1.76	Normal up vs > 5 Years Off IS Tolerant
213483_PM_at	PPWD1	peptidylprolyl isomerase domain and WD repeat containing 1	4.87E-07	1.87	Normal up vs > 5 Years Off IS Tolerant
202761_PM_s_at	SYNE2	spectrin repeat containing, nuclear envelope 2	5.73E-07	3.67	Normal up vs > 5 Years Off IS Tolerant
226156_PM_at	AKT2	v-akt murine thymoma viral oncogene homolog 2	6.19E-07	1.81	Normal up vs > 5 Years Off IS Tolerant
205213_PM_at	ACAP1	ArfGAP with coiled-coil, ankyrin repeat and PH domains 1	6.53E-07	2.18	Normal up vs > 5 Years Off IS Tolerant
212029_PM_s_at	LOC100506002	hypothetical protein LOC100506002	6.75E-07	-1.64	Normal down vs > 5 Years Off IS Tolerant
225175_PM_s_at	SLC44A2	solute carrier family 44, member 2	6.92E-07	1.68	Normal up vs > 5 Years Off IS Tolerant
200965_PM_s_at	ABLIM1	actin binding LIM protein 1	6.96E-07	3.66	Normal up vs > 5 Years Off IS Tolerant
218494_PM_s_at	SLC2A4RG	SLC2A4 regulator	7.03E-07	2.58	Normal up vs > 5 Years Off IS Tolerant
202813_PM_at	TARBP1	TAR (HIV-1) RNA binding protein 1	7.09E-07	2.03	Normal up vs > 5 Years Off IS Tolerant
225747_PM_at	COQ10A	coenzyme Q10 homolog A (S. cerevisiae)	7.28E-07	1.89	Normal up vs > 5 Years Off IS Tolerant
224477_PM_s_at	NUDT16L1	nudix (nucleoside diphosphate linked moiety X)-type motif 16-like 1	7.44E-07	1.59	Normal up vs > 5 Years Off IS Tolerant
205961_PM_s_at	PSIP1	PC4 and SFRS1 interacting protein 1	7.49E-07	2.68	Normal up vs > 5 Years Off IS Tolerant
218551_PM_at	MIIP	migration and invasion inhibitory protein	7.54E-07	-1.57	Normal down vs > 5 Years Off IS Tolerant
1552633_PM_at	ZNF101	zinc finger protein 101	7.77E-07	2.48	Normal up vs > 5 Years Off IS Tolerant
201464_PM_x_at	JUN	jun proto-oncogene	7.82E-07	2.43	Normal up vs > 5 Years Off IS Tolerant

224579_PM_at	SLC38A1	solute carrier family 38, member 1	8.02E-07	2.27	Normal up vs > 5 Years Off IS Tolerant
205152_PM_at	SLC6A1	solute carrier family 6 (neurotransmitter transporter, GABA), member 1	8.17E-07	-1.41	Normal down vs > 5 Years Off IS Tolerant
239450_PM_at	---	---	8.57E-07	2.39	Normal up vs > 5 Years Off IS Tolerant
214615_PM_at	P2RY10	purinergic receptor P2Y, G-protein coupled, 10	8.63E-07	2.64	Normal up vs > 5 Years Off IS Tolerant
226247_PM_at	PLEKHA1	pleckstrin homology domain containing, family A (phosphoinositide binding specific) mem	8.70E-07	2.21	Normal up vs > 5 Years Off IS Tolerant
200052_PM_s_at	ILF2	interleukin enhancer binding factor 2, 45kDa	9.16E-07	1.72	Normal up vs > 5 Years Off IS Tolerant
212256_PM_at	GALNT10	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 10 (Ga	9.30E-07	1.89	Normal up vs > 5 Years Off IS Tolerant
225820_PM_at	PHF17	PHD finger protein 17	9.74E-07	2.37	Normal up vs > 5 Years Off IS Tolerant
1563469_PM_at	---	---	9.76E-07	2.80	Normal up vs > 5 Years Off IS Tolerant
201074_PM_at	SMARCC1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily c	9.91E-07	1.65	Normal up vs > 5 Years Off IS Tolerant
218972_PM_at	TTC17	tetratricopeptide repeat domain 17	1.03E-06	1.74	Normal up vs > 5 Years Off IS Tolerant
208763_PM_s_at	TSC22D3	TSC22 domain family, member 3	1.03E-06	1.59	Normal up vs > 5 Years Off IS Tolerant
206059_PM_at	ZNF91	zinc finger protein 91	1.04E-06	2.61	Normal up vs > 5 Years Off IS Tolerant
228606_PM_at	TCTEX1D2	Tctex1 domain containing 2	1.14E-06	2.59	Normal up vs > 5 Years Off IS Tolerant
221123_PM_x_at	ZNF395	zinc finger protein 395	1.15E-06	2.50	Normal up vs > 5 Years Off IS Tolerant
243824_PM_at	LOC100505956	hypothetical LOC100505956	1.22E-06	-3.96	Normal down vs > 5 Years Off IS Tolerant
209271_PM_at	BPTF	bromodomain PHD finger transcription factor	1.25E-06	1.65	Normal up vs > 5 Years Off IS Tolerant
206363_PM_at	MAF	v-maf musculoaponeurotic fibrosarcoma oncogene homolog (avian)	1.26E-06	3.26	Normal up vs > 5 Years Off IS Tolerant
208614_PM_s_at	FLNB	filamin B, beta	1.26E-06	2.03	Normal up vs > 5 Years Off IS Tolerant

231530_PM_s_at	C11orf1	chromosome 11 open reading frame 1	1.27E-06	2.95	Normal up vs > 5 Years Off IS Tolerant
221519_PM_at	FBXW4	F-box and WD repeat domain containing 4	1.38E-06	1.72	Normal up vs > 5 Years Off IS Tolerant
201465_PM_s_at	JUN	jun proto-oncogene	1.39E-06	3.11	Normal up vs > 5 Years Off IS Tolerant
226452_PM_at	PDK1	pyruvate dehydrogenase kinase, isozyme 1	1.39E-06	2.89	Normal up vs > 5 Years Off IS Tolerant
210222_PM_s_at	RTN1	reticulon 1	1.43E-06	-2.44	Normal down vs > 5 Years Off IS Tolerant
226123_PM_at	CHD7	chromodomain helicase DNA binding protein 7	1.46E-06	2.38	Normal up vs > 5 Years Off IS Tolerant
202723_PM_s_at	FOXO1	forkhead box O1	1.51E-06	1.91	Normal up vs > 5 Years Off IS Tolerant
236772_PM_s_at	---	---	1.54E-06	-1.96	Normal down vs > 5 Years Off IS Tolerant
223029_PM_s_at	TRAF7	TNF receptor-associated factor 7	1.58E-06	-1.72	Normal down vs > 5 Years Off IS Tolerant
219126_PM_at	PHF10	PHD finger protein 10	1.59E-06	1.54	Normal up vs > 5 Years Off IS Tolerant
241971_PM_at	---	---	1.59E-06	-1.52	Normal down vs > 5 Years Off IS Tolerant
38340_PM_at	HIP1R	huntingtin interacting protein 1 related	1.62E-06	2.43	Normal up vs > 5 Years Off IS Tolerant
204176_PM_at	KLHL20	kelch-like 20 (Drosophila)	1.63E-06	2.99	Normal up vs > 5 Years Off IS Tolerant
234701_PM_at	ANKRD11	ankyrin repeat domain 11	1.68E-06	1.74	Normal up vs > 5 Years Off IS Tolerant
228291_PM_s_at	PLK1S1	polo-like kinase 1 substrate 1	1.69E-06	1.73	Normal up vs > 5 Years Off IS Tolerant
226795_PM_at	LRCH1	leucine-rich repeats and calponin homology (CH) domain containing 1	1.76E-06	1.90	Normal up vs > 5 Years Off IS Tolerant
1554470_PM_s_at	ZBTB44	zinc finger and BTB domain containing 44	1.76E-06	2.08	Normal up vs > 5 Years Off IS Tolerant
202524_PM_s_at	SPOCK2	sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 2	1.79E-06	2.68	Normal up vs > 5 Years Off IS Tolerant
213867_PM_x_at	ACTB	actin, beta	1.82E-06	-1.18	Normal down vs > 5 Years Off IS Tolerant

201498_PM_at	USP7	ubiquitin specific peptidase 7 (herpes virus-associated)	1.83E-06	1.38	Normal up vs > 5 Years Off IS Tolerant
227517_PM_s_at	GAS5	growth arrest-specific 5 (non-protein coding)	1.83E-06	2.20	Normal up vs > 5 Years Off IS Tolerant
202782_PM_s_at	INPP5K	inositol polyphosphate-5-phosphatase K	1.84E-06	1.74	Normal up vs > 5 Years Off IS Tolerant
240379_PM_at	PKP4	plakophilin 4	1.84E-06	-1.69	Normal down vs > 5 Years Off IS Tolerant
213940_PM_s_at	FBNP1	formin binding protein 1	1.89E-06	1.41	Normal up vs > 5 Years Off IS Tolerant
239014_PM_at	CCAR1	Cell division cycle and apoptosis regulator 1	1.92E-06	1.92	Normal up vs > 5 Years Off IS Tolerant
226967_PM_at	FIZ1	FLT3-interacting zinc finger 1	1.92E-06	-1.81	Normal down vs > 5 Years Off IS Tolerant
202913_PM_at	ARHGEF11	Rho guanine nucleotide exchange factor (GEF) 11	1.96E-06	-1.59	Normal down vs > 5 Years Off IS Tolerant
201057_PM_s_at	GOLGB1	golgin B1	2.15E-06	1.53	Normal up vs > 5 Years Off IS Tolerant
241944_PM_x_at	---	---	2.20E-06	-1.80	Normal down vs > 5 Years Off IS Tolerant
232394_PM_at	---	---	2.21E-06	-1.57	Normal down vs > 5 Years Off IS Tolerant
223976_PM_at	FUT10	fucosyltransferase 10 (alpha (1,3) fucosyltransferase)	2.21E-06	-1.46	Normal down vs > 5 Years Off IS Tolerant
210269_PM_s_at	AKAP17A	A kinase (PRKA) anchor protein 17A	2.21E-06	2.09	Normal up vs > 5 Years Off IS Tolerant
236839_PM_at	---	---	2.23E-06	1.81	Normal up vs > 5 Years Off IS Tolerant
234710_PM_s_at	PARP6	poly (ADP-ribose) polymerase family, member 6	2.27E-06	1.86	Normal up vs > 5 Years Off IS Tolerant
213958_PM_at	CD6	CD6 molecule	2.29E-06	2.95	Normal up vs > 5 Years Off IS Tolerant
224699_PM_s_at	ESYT2	extended synaptotagmin-like protein 2	2.34E-06	2.11	Normal up vs > 5 Years Off IS Tolerant
218552_PM_at	ECHDC2	enoyl CoA hydratase domain containing 2	2.37E-06	2.07	Normal up vs > 5 Years Off IS Tolerant
226564_PM_at	ZFAT	zinc finger and AT hook domain containing	2.38E-06	-2.74	Normal down vs > 5 Years Off IS Tolerant

37004_PM_at	SFTPB	surfactant protein B	2.42E-06	-1.56	Normal down vs > 5 Years Off IS Tolerant
230489_PM_at	CD5	CD5 molecule	2.53E-06	2.97	Normal up vs > 5 Years Off IS Tolerant
224609_PM_at	SLC44A2	solute carrier family 44, member 2	2.54E-06	1.83	Normal up vs > 5 Years Off IS Tolerant
227697_PM_at	SOCS3	suppressor of cytokine signaling 3	2.55E-06	3.78	Normal up vs > 5 Years Off IS Tolerant
213015_PM_at	BBX	bobby sox homolog (Drosophila)	2.57E-06	1.53	Normal up vs > 5 Years Off IS Tolerant
209431_PM_s_at	PATZ1	POZ (BTB) and AT hook containing zinc finger 1	2.61E-06	1.85	Normal up vs > 5 Years Off IS Tolerant
217689_PM_at	PTPN1	Protein tyrosine phosphatase, non-receptor type 1	2.62E-06	-1.42	Normal down vs > 5 Years Off IS Tolerant
218673_PM_s_at	ATG7	ATG7 autophagy related 7 homolog (S. cerevisiae)	2.66E-06	-2.18	Normal down vs > 5 Years Off IS Tolerant
206359_PM_at	SOCS3	suppressor of cytokine signaling 3	2.87E-06	3.45	Normal up vs > 5 Years Off IS Tolerant
228797_PM_at	NLN	neurolysin (metallopeptidase M3 family)	2.89E-06	-2.05	Normal down vs > 5 Years Off IS Tolerant
202780_PM_at	OXCT1	3-oxoacid CoA transferase 1	2.93E-06	2.07	Normal up vs > 5 Years Off IS Tolerant
225220_PM_at	SNHG8	small nucleolar RNA host gene 8 (non-protein coding)	2.94E-06	1.92	Normal up vs > 5 Years Off IS Tolerant
216044_PM_x_at	FAM69A	family with sequence similarity 69, member A	3.01E-06	2.87	Normal up vs > 5 Years Off IS Tolerant
201075_PM_s_at	SMARCC1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily c	3.08E-06	2.40	Normal up vs > 5 Years Off IS Tolerant
201345_PM_s_at	UBE2D2	ubiquitin-conjugating enzyme E2D 2 (UBC4/5 homolog, yeast)	3.12E-06	1.49	Normal up vs > 5 Years Off IS Tolerant
222045_PM_s_at	PCIF1	PDX1 C-terminal inhibiting factor 1	3.13E-06	4.63	Normal up vs > 5 Years Off IS Tolerant
221698_PM_s_at	CLEC7A	C-type lectin domain family 7, member A	3.15E-06	-1.84	Normal down vs > 5 Years Off IS Tolerant
203230_PM_at	DVL1	dishevelled, dsh homolog 1 (Drosophila)	3.23E-06	1.64	Normal up vs > 5 Years Off IS Tolerant
1556046_PM_a_at	LOC157627	hypothetical LOC157627	3.33E-06	-2.06	Normal down vs > 5 Years Off IS Tolerant

227357_PM_at	TAB3	TGF-beta activated kinase 1/MAP3K7 binding protein 3	3.40E-06	1.63	Normal up vs > 5 Years Off IS Tolerant
215031_PM_x_at	RNF126	ring finger protein 126	3.43E-06	1.77	Normal up vs > 5 Years Off IS Tolerant
218764_PM_at	PRKCH	protein kinase C, eta	3.47E-06	2.59	Normal up vs > 5 Years Off IS Tolerant
229892_PM_at	EP400NL	EP400 N-terminal like	3.50E-06	1.81	Normal up vs > 5 Years Off IS Tolerant
218769_PM_s_at	ANKRA2	ankyrin repeat, family A (RFXANK-like), 2	3.54E-06	2.02	Normal up vs > 5 Years Off IS Tolerant
217851_PM_s_at	SLMO2	slowmo homolog 2 (Drosophila)	3.55E-06	2.52	Normal up vs > 5 Years Off IS Tolerant
217925_PM_s_at	C6orf106	chromosome 6 open reading frame 106	3.58E-06	1.89	Normal up vs > 5 Years Off IS Tolerant
208073_PM_x_at	TTC3	tetratricopeptide repeat domain 3	3.59E-06	1.56	Normal up vs > 5 Years Off IS Tolerant
1564317_PM_at	---	---	3.64E-06	-2.10	Normal down vs > 5 Years Off IS Tolerant
231718_PM_at	SLU7	SLU7 splicing factor homolog (S. cerevisiae)	3.65E-06	1.71	Normal up vs > 5 Years Off IS Tolerant
220319_PM_s_at	MYLIP	myosin regulatory light chain interacting protein	3.74E-06	2.61	Normal up vs > 5 Years Off IS Tolerant
224783_PM_at	FAM100B	family with sequence similarity 100, member B	3.76E-06	1.94	Normal up vs > 5 Years Off IS Tolerant
223008_PM_s_at	C9orf5	chromosome 9 open reading frame 5	3.82E-06	2.03	Normal up vs > 5 Years Off IS Tolerant
212675_PM_s_at	CEP68	centrosomal protein 68kDa	3.85E-06	2.78	Normal up vs > 5 Years Off IS Tolerant
226914_PM_at	ARPC5L	actin related protein 2/3 complex, subunit 5-like	3.88E-06	2.20	Normal up vs > 5 Years Off IS Tolerant
203580_PM_s_at	SLC7A6	solute carrier family 7 (cationic amino acid transporter, y+ system), member 6	3.96E-06	2.25	Normal up vs > 5 Years Off IS Tolerant
218456_PM_at	CAPRIN2	caprin family member 2	4.00E-06	1.78	Normal up vs > 5 Years Off IS Tolerant
202423_PM_at	MYST3	MYST histone acetyltransferase (monocytic leukemia) 3	4.01E-06	1.64	Normal up vs > 5 Years Off IS Tolerant
223773_PM_s_at	SNHG12	small nucleolar RNA host gene 12 (non-protein coding)	4.07E-06	1.97	Normal up vs > 5 Years Off IS Tolerant

227784_PM_s_at	COG1	component of oligomeric golgi complex 1	4.13E-06	2.03	Normal up vs > 5 Years Off IS Tolerant
228458_PM_at	C6orf226	chromosome 6 open reading frame 226	4.19E-06	2.16	Normal up vs > 5 Years Off IS Tolerant
1563154_PM_at	---	---	4.19E-06	-1.45	Normal down vs > 5 Years Off IS Tolerant
201715_PM_s_at	ACIN1	apoptotic chromatin condensation inducer 1	4.21E-06	1.73	Normal up vs > 5 Years Off IS Tolerant
225758_PM_s_at	TUBGCP6	tubulin, gamma complex associated protein 6	4.23E-06	2.08	Normal up vs > 5 Years Off IS Tolerant
208336_PM_s_at	TECR	trans-2,3-enoyl-CoA reductase	4.36E-06	2.14	Normal up vs > 5 Years Off IS Tolerant
219112_PM_at	FNIP1 /// RAPGEF6	folliculin interacting protein 1 /// Rap guanine nucleotide exchange factor (GEF) 6	4.37E-06	2.14	Normal up vs > 5 Years Off IS Tolerant
202308_PM_at	SREBF1	sterol regulatory element binding transcription factor 1	4.41E-06	1.84	Normal up vs > 5 Years Off IS Tolerant
209420_PM_s_at	SMPD1	sphingomyelin phosphodiesterase 1, acid lysosomal	4.43E-06	1.75	Normal up vs > 5 Years Off IS Tolerant
205087_PM_at	RWDD3	RWD domain containing 3	4.54E-06	2.06	Normal up vs > 5 Years Off IS Tolerant
239428_PM_at	---	---	4.59E-06	-1.74	Normal down vs > 5 Years Off IS Tolerant
212071_PM_s_at	SPTBN1	spectrin, beta, non-erythrocytic 1	4.63E-06	2.26	Normal up vs > 5 Years Off IS Tolerant
202928_PM_s_at	PHF1	PHD finger protein 1	4.71E-06	2.17	Normal up vs > 5 Years Off IS Tolerant
221066_PM_at	RXFP3	relaxin/insulin-like family peptide receptor 3	4.81E-06	-1.36	Normal down vs > 5 Years Off IS Tolerant
230640_PM_at	---	---	4.84E-06	2.41	Normal up vs > 5 Years Off IS Tolerant
36552_PM_at	C2CD3	C2 calcium-dependent domain containing 3	4.85E-06	1.63	Normal up vs > 5 Years Off IS Tolerant
206572_PM_x_at	ZNF85	zinc finger protein 85	4.91E-06	1.89	Normal up vs > 5 Years Off IS Tolerant
206828_PM_at	TXK	TXK tyrosine kinase	4.94E-06	3.05	Normal up vs > 5 Years Off IS Tolerant
1562496_PM_at	LOC339539	hypothetical protein LOC339539	5.00E-06	-1.49	Normal down vs > 5 Years Off IS Tolerant

201677_PM_at	C3orf37	Chromosome 3 open reading frame 37	5.13E-06	2.11	Normal up vs > 5 Years Off IS Tolerant
200857_PM_s_at	NCOR1	nuclear receptor corepressor 1	5.15E-06	1.98	Normal up vs > 5 Years Off IS Tolerant
212674_PM_s_at	DHX30	DEAH (Asp-Glu-Ala-His) box polypeptide 30	5.26E-06	1.50	Normal up vs > 5 Years Off IS Tolerant
232187_PM_at	PALMD	palmdelphin	5.29E-06	-1.65	Normal down vs > 5 Years Off IS Tolerant
213431_PM_x_at	SFI1	Sfi1 homolog, spindle assembly associated (yeast)	5.33E-06	2.16	Normal up vs > 5 Years Off IS Tolerant
204431_PM_at	TLE2	transducin-like enhancer of split 2 (E(sp1) homolog, Drosophila)	5.36E-06	1.75	Normal up vs > 5 Years Off IS Tolerant
222728_PM_s_at	TAF1D	TATA box binding protein (TBP)-associated factor, RNA polymerase I, D, 41kDa	5.40E-06	1.58	Normal up vs > 5 Years Off IS Tolerant
225931_PM_s_at	RNF213	ring finger protein 213	5.44E-06	1.69	Normal up vs > 5 Years Off IS Tolerant
223162_PM_s_at	KIAA1147	KIAA1147	5.45E-06	1.83	Normal up vs > 5 Years Off IS Tolerant
234106_PM_s_at	FLYWCH1	FLYWCH-type zinc finger 1	5.67E-06	1.79	Normal up vs > 5 Years Off IS Tolerant
233785_PM_at	ADAMTS9	ADAM metallopeptidase with thrombospondin type 1 motif, 9	5.69E-06	-1.47	Normal down vs > 5 Years Off IS Tolerant
1557053_PM_s_at	UBE2G2	ubiquitin-conjugating enzyme E2G 2 (UBC7 homolog, yeast)	5.76E-06	1.49	Normal up vs > 5 Years Off IS Tolerant
235353_PM_at	SEL1L3	sel-1 suppressor of lin-12-like 3 (C. elegans)	5.79E-06	2.69	Normal up vs > 5 Years Off IS Tolerant
202104_PM_s_at	SPG7	spastic paraplegia 7 (pure and complicated autosomal recessive)	5.84E-06	1.83	Normal up vs > 5 Years Off IS Tolerant
243010_PM_at	MSI2	musashi homolog 2 (Drosophila)	5.86E-06	1.82	Normal up vs > 5 Years Off IS Tolerant
233892_PM_at	GRIN3B	glutamate receptor, ionotropic, N-methyl-D-aspartate 3B	5.87E-06	-1.46	Normal down vs > 5 Years Off IS Tolerant
236796_PM_at	BACH2	BTB and CNC homology 1, basic leucine zipper transcription factor 2	5.90E-06	3.67	Normal up vs > 5 Years Off IS Tolerant
212557_PM_at	ZNF451	zinc finger protein 451	6.01E-06	1.56	Normal up vs > 5 Years Off IS Tolerant
242643_PM_x_at	---	---	6.09E-06	-1.50	Normal down vs > 5 Years Off IS Tolerant

1569629_PM_x_at	LOC389906	hypothetical LOC389906	6.11E-06	1.67	Normal up vs > 5 Years Off IS Tolerant
239273_PM_s_at	MMP28	matrix metallopeptidase 28	6.17E-06	1.80	Normal up vs > 5 Years Off IS Tolerant
217839_PM_at	TFG	TRK-fused gene	6.28E-06	1.54	Normal up vs > 5 Years Off IS Tolerant
226466_PM_s_at	FAM58A	family with sequence similarity 58, member A	6.51E-06	1.69	Normal up vs > 5 Years Off IS Tolerant
204215_PM_at	C7orf23	chromosome 7 open reading frame 23	6.51E-06	2.25	Normal up vs > 5 Years Off IS Tolerant
202251_PM_at	PRPF3	PRP3 pre-mRNA processing factor 3 homolog (S. cerevisiae)	6.54E-06	1.74	Normal up vs > 5 Years Off IS Tolerant
1560735_PM_s_at	LOC727924	hypothetical LOC727924	6.61E-06	-2.05	Normal down vs > 5 Years Off IS Tolerant
229415_PM_at	CYCS	cytochrome c, somatic	6.73E-06	2.17	Normal up vs > 5 Years Off IS Tolerant
204082_PM_at	PBX3	pre-B-cell leukemia homeobox 3	6.75E-06	1.71	Normal up vs > 5 Years Off IS Tolerant
204294_PM_at	AMT	aminomethyltransferase	6.91E-06	1.78	Normal up vs > 5 Years Off IS Tolerant
230703_PM_at	---	---	6.92E-06	2.20	Normal up vs > 5 Years Off IS Tolerant
214051_PM_at	TMSB15B	thymosin beta 15B	6.96E-06	1.88	Normal up vs > 5 Years Off IS Tolerant
238440_PM_at	CLYBL	citrate lyase beta like	7.03E-06	2.34	Normal up vs > 5 Years Off IS Tolerant
207861_PM_at	CCL22	chemokine (C-C motif) ligand 22	7.07E-06	-1.51	Normal down vs > 5 Years Off IS Tolerant
229628_PM_s_at	C9orf174 /// LOC57653	chromosome 9 open reading frame 174 /// LOC100499484-C9orf174 read-through transcript	7.10E-06	2.13	Normal up vs > 5 Years Off IS Tolerant
235020_PM_at	TAF4B	TAF4b RNA polymerase II, TATA box binding protein (TBP)-associated factor, 105kDa	7.14E-06	2.28	Normal up vs > 5 Years Off IS Tolerant
208860_PM_s_at	ATRX	alpha thalassemia/mental retardation syndrome X-linked	7.19E-06	1.75	Normal up vs > 5 Years Off IS Tolerant
240436_PM_at	LOC650794	Similar to FRAS1 related extracellular matrix protein 2	7.26E-06	-1.56	Normal down vs > 5 Years Off IS Tolerant
200642_PM_at	SOD1	superoxide dismutase 1, soluble	7.37E-06	1.62	Normal up vs > 5 Years Off IS Tolerant

215820_PM_x_at	SNX13	sorting nexin 13	7.43E-06	-1.61	Normal down vs > 5 Years Off IS Tolerant
231449_PM_at	---	---	7.49E-06	-1.88	Normal down vs > 5 Years Off IS Tolerant
229935_PM_s_at	MLL	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila)	7.49E-06	-1.55	Normal down vs > 5 Years Off IS Tolerant
219435_PM_at	C17orf68	chromosome 17 open reading frame 68	7.52E-06	1.99	Normal up vs > 5 Years Off IS Tolerant
203543_PM_s_at	KLF9	Kruppel-like factor 9	7.56E-06	3.81	Normal up vs > 5 Years Off IS Tolerant
216862_PM_s_at	MTCP1NB	mature T-cell proliferation 1 neighbor	7.63E-06	1.66	Normal up vs > 5 Years Off IS Tolerant
217019_PM_at	RPS4X /// RPS4XP6	ribosomal protein S4, X-linked /// ribosomal protein S4X pseudogene 6	7.63E-06	2.05	Normal up vs > 5 Years Off IS Tolerant
223216_PM_x_at	ZNF395	zinc finger protein 395	7.80E-06	2.31	Normal up vs > 5 Years Off IS Tolerant
212229_PM_s_at	FBXO21	F-box protein 21	7.83E-06	1.56	Normal up vs > 5 Years Off IS Tolerant
201092_PM_at	RBBP7	retinoblastoma binding protein 7	7.85E-06	1.35	Normal up vs > 5 Years Off IS Tolerant
239553_PM_at	LOC729420	hypothetical LOC729420	7.89E-06	-1.42	Normal down vs > 5 Years Off IS Tolerant
238105_PM_x_at	WNT7B	wingless-type MMTV integration site family, member 7B	7.97E-06	-1.86	Normal down vs > 5 Years Off IS Tolerant
239721_PM_at	---	---	8.01E-06	2.04	Normal up vs > 5 Years Off IS Tolerant
202832_PM_at	GCC2	GRIP and coiled-coil domain containing 2	8.03E-06	2.01	Normal up vs > 5 Years Off IS Tolerant
218772_PM_x_at	TMEM38B	transmembrane protein 38B	8.07E-06	2.01	Normal up vs > 5 Years Off IS Tolerant
1568733_PM_at	C10orf76	chromosome 10 open reading frame 76	8.12E-06	2.66	Normal up vs > 5 Years Off IS Tolerant
206118_PM_at	STAT4	signal transducer and activator of transcription 4	8.18E-06	2.74	Normal up vs > 5 Years Off IS Tolerant
229393_PM_at	L3MBTL3	l(3)mbt-like 3 (Drosophila)	8.19E-06	1.70	Normal up vs > 5 Years Off IS Tolerant
224851_PM_at	CDK6	cyclin-dependent kinase 6	8.32E-06	2.67	Normal up vs > 5 Years Off IS Tolerant

238638_PM_at	SLC37A2	solute carrier family 37 (glycerol-3-phosphate transporter), member 2	8.38E-06	-2.21	Normal down vs > 5 Years Off IS Tolerant
227502_PM_at	---	---	8.53E-06	2.50	Normal up vs > 5 Years Off IS Tolerant
226327_PM_at	ZNF507	zinc finger protein 507	8.57E-06	2.66	Normal up vs > 5 Years Off IS Tolerant
223324_PM_s_at	TRPM7	transient receptor potential cation channel, subfamily M, member 7	8.78E-06	1.98	Normal up vs > 5 Years Off IS Tolerant
219864_PM_s_at	RCAN3	RCAN family member 3	8.90E-06	2.55	Normal up vs > 5 Years Off IS Tolerant
242438_PM_at	ASXL1	additional sex combs like 1 (Drosophila)	8.92E-06	2.16	Normal up vs > 5 Years Off IS Tolerant
204618_PM_s_at	GABPB1	GA binding protein transcription factor, beta subunit 1	8.93E-06	1.95	Normal up vs > 5 Years Off IS Tolerant
244808_PM_at	GRAMD1A	GRAM domain containing 1A	8.99E-06	2.78	Normal up vs > 5 Years Off IS Tolerant
201100_PM_s_at	USP9X	ubiquitin specific peptidase 9, X-linked	9.05E-06	1.39	Normal up vs > 5 Years Off IS Tolerant
242676_PM_at	---	---	9.10E-06	2.51	Normal up vs > 5 Years Off IS Tolerant
241929_PM_at	---	---	9.11E-06	-3.09	Normal down vs > 5 Years Off IS Tolerant
210379_PM_s_at	TLK1	tousled-like kinase 1	9.29E-06	3.29	Normal up vs > 5 Years Off IS Tolerant
217912_PM_at	DUS1L	dihydrouridine synthase 1-like (S. cerevisiae)	9.32E-06	1.43	Normal up vs > 5 Years Off IS Tolerant
208807_PM_s_at	CHD3	chromodomain helicase DNA binding protein 3	9.33E-06	1.68	Normal up vs > 5 Years Off IS Tolerant
220988_PM_s_at	C1QTNF3	C1q and tumor necrosis factor related protein 3	9.36E-06	1.65	Normal up vs > 5 Years Off IS Tolerant
226229_PM_s_at	SSU72	SSU72 RNA polymerase II CTD phosphatase homolog (S. cerevisiae)	9.46E-06	1.93	Normal up vs > 5 Years Off IS Tolerant
222731_PM_at	ZDHHC2	zinc finger, DHHC-type containing 2	9.64E-06	1.91	Normal up vs > 5 Years Off IS Tolerant
210280_PM_at	MPZ	myelin protein zero	9.74E-06	-1.41	Normal down vs > 5 Years Off IS Tolerant
228174_PM_at	SCAI	suppressor of cancer cell invasion	9.74E-06	2.48	Normal up vs > 5 Years Off IS Tolerant

225942_PM_at	NLN	neurolysin (metallopeptidase M3 family)	9.83E-06	-1.78	Normal down vs > 5 Years Off IS Tolerant
233357_PM_at	TRIM67	tripartite motif-containing 67	9.98E-06	-2.00	Normal down vs > 5 Years Off IS Tolerant
207250_PM_at	SIX6	SIX homeobox 6	9.99E-06	-1.47	Normal down vs > 5 Years Off IS Tolerant
1559413_PM_at	TCP11L2	t-complex 11 (mouse)-like 2	1.01E-05	3.10	Normal up vs > 5 Years Off IS Tolerant
208299_PM_at	CACNA1I	calcium channel, voltage-dependent, T type, alpha 1I subunit	1.03E-05	-1.50	Normal down vs > 5 Years Off IS Tolerant
223332_PM_x_at	RNF126	ring finger protein 126	1.07E-05	1.69	Normal up vs > 5 Years Off IS Tolerant
222108_PM_at	AMIGO2	adhesion molecule with Ig-like domain 2	1.07E-05	2.40	Normal up vs > 5 Years Off IS Tolerant
212955_PM_s_at	POLR2I	polymerase (RNA) II (DNA directed) polypeptide I, 14.5kDa	1.09E-05	1.90	Normal up vs > 5 Years Off IS Tolerant
204198_PM_s_at	RUNX3	runt-related transcription factor 3	1.09E-05	2.35	Normal up vs > 5 Years Off IS Tolerant
219528_PM_s_at	BCL11B	B-cell CLL/lymphoma 11B (zinc finger protein)	1.11E-05	4.15	Normal up vs > 5 Years Off IS Tolerant
243323_PM_s_at	ZFHX3	Zinc finger homeobox 3	1.11E-05	-1.49	Normal down vs > 5 Years Off IS Tolerant
227485_PM_at	DDX26B	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 26B	1.12E-05	2.03	Normal up vs > 5 Years Off IS Tolerant
217266_PM_at	RPL15	ribosomal protein L15	1.12E-05	2.06	Normal up vs > 5 Years Off IS Tolerant
218259_PM_at	MKL2	MKL/myocardin-like 2	1.14E-05	2.32	Normal up vs > 5 Years Off IS Tolerant
227607_PM_at	STAMBPL1	STAM binding protein-like 1	1.16E-05	2.38	Normal up vs > 5 Years Off IS Tolerant
208398_PM_s_at	TBPL1	TBP-like 1	1.16E-05	1.70	Normal up vs > 5 Years Off IS Tolerant
200920_PM_s_at	BTG1	B-cell translocation gene 1, anti-proliferative	1.16E-05	1.52	Normal up vs > 5 Years Off IS Tolerant
205526_PM_s_at	KATNA1	katanin p60 (ATPase-containing) subunit A 1	1.17E-05	1.65	Normal up vs > 5 Years Off IS Tolerant
212591_PM_at	ARID4B /// RBM34	AT rich interactive domain 4B (RBP1-like) /// RNA binding motif protein 34	1.17E-05	1.47	Normal up vs > 5 Years Off IS Tolerant

214894_PM_x_at	MACF1	microtubule-actin crosslinking factor 1	1.19E-05	1.68	Normal up vs > 5 Years Off IS Tolerant
208423_PM_s_at	MSR1	macrophage scavenger receptor 1	1.20E-05	-1.42	Normal down vs > 5 Years Off IS Tolerant
209950_PM_s_at	VILL	villin-like	1.21E-05	1.94	Normal up vs > 5 Years Off IS Tolerant
207971_PM_s_at	CEP68	centrosomal protein 68kDa	1.22E-05	1.89	Normal up vs > 5 Years Off IS Tolerant
222125_PM_s_at	P4HTM	prolyl 4-hydroxylase, transmembrane (endoplasmic reticulum)	1.24E-05	1.92	Normal up vs > 5 Years Off IS Tolerant
209067_PM_s_at	HNRPDL	heterogeneous nuclear ribonucleoprotein D-like	1.29E-05	1.45	Normal up vs > 5 Years Off IS Tolerant
228613_PM_at	RAB11FIP3	RAB11 family interacting protein 3 (class II)	1.29E-05	2.38	Normal up vs > 5 Years Off IS Tolerant
203485_PM_at	RTN1	reticulon 1	1.30E-05	-2.43	Normal down vs > 5 Years Off IS Tolerant
1566147_PM_a_at	LOC375010	ankyrin repeat domain 20 family, member A pseudogene	1.30E-05	-1.99	Normal down vs > 5 Years Off IS Tolerant
230292_PM_at	LOC100131993	Similar to hCG2020760	1.31E-05	-2.71	Normal down vs > 5 Years Off IS Tolerant
1553979_PM_at	---	---	1.32E-05	1.56	Normal up vs > 5 Years Off IS Tolerant
237143_PM_at	---	---	1.32E-05	2.47	Normal up vs > 5 Years Off IS Tolerant
203588_PM_s_at	TFDP2	transcription factor Dp-2 (E2F dimerization partner 2)	1.32E-05	2.56	Normal up vs > 5 Years Off IS Tolerant
219097_PM_x_at	C19orf42	chromosome 19 open reading frame 42	1.32E-05	-1.41	Normal down vs > 5 Years Off IS Tolerant
226718_PM_at	AMIGO1	adhesion molecule with Ig-like domain 1	1.34E-05	2.71	Normal up vs > 5 Years Off IS Tolerant
224719_PM_s_at	C12orf57	chromosome 12 open reading frame 57	1.35E-05	2.65	Normal up vs > 5 Years Off IS Tolerant
218505_PM_at	WDR59	WD repeat domain 59	1.37E-05	1.70	Normal up vs > 5 Years Off IS Tolerant
219419_PM_at	RBFA	ribosome binding factor A (putative)	1.39E-05	1.66	Normal up vs > 5 Years Off IS Tolerant
212783_PM_at	RBBP6	retinoblastoma binding protein 6	1.39E-05	1.54	Normal up vs > 5 Years Off IS Tolerant

220633_PM_s_at	HP1BP3	heterochromatin protein 1, binding protein 3	1.41E-05	1.72	Normal up vs > 5 Years Off IS Tolerant
225635_PM_s_at	LOC401504	hypothetical LOC401504	1.41E-05	2.23	Normal up vs > 5 Years Off IS Tolerant
238062_PM_at	GPIHBP1	glycosylphosphatidylinositol anchored high density lipoprotein binding protein 1	1.41E-05	-1.48	Normal down vs > 5 Years Off IS Tolerant
222044_PM_at	PCIF1	PDX1 C-terminal inhibiting factor 1	1.41E-05	2.66	Normal up vs > 5 Years Off IS Tolerant
226012_PM_at	ANKRD11	ankyrin repeat domain 11	1.41E-05	1.81	Normal up vs > 5 Years Off IS Tolerant
208623_PM_s_at	EZR	ezrin	1.44E-05	1.86	Normal up vs > 5 Years Off IS Tolerant
228111_PM_s_at	DNAH1	dynein, axonemal, heavy chain 1	1.44E-05	1.86	Normal up vs > 5 Years Off IS Tolerant
201419_PM_at	BAP1	BRCA1 associated protein-1 (ubiquitin carboxy-terminal hydrolase)	1.46E-05	1.51	Normal up vs > 5 Years Off IS Tolerant
218932_PM_at	ZNHIT6	zinc finger, HIT-type containing 6	1.52E-05	2.31	Normal up vs > 5 Years Off IS Tolerant
202904_PM_s_at	LSM5	LSM5 homolog, U6 small nuclear RNA associated (<i>S. cerevisiae</i>)	1.54E-05	2.85	Normal up vs > 5 Years Off IS Tolerant
228284_PM_at	TLE1	transducin-like enhancer of split 1 (<i>E(sp1)</i> homolog, <i>Drosophila</i>)	1.56E-05	5.62	Normal up vs > 5 Years Off IS Tolerant
220581_PM_at	C6orf97	chromosome 6 open reading frame 97	1.56E-05	-1.75	Normal down vs > 5 Years Off IS Tolerant
225550_PM_at	CNST	consortin, connexin sorting protein	1.56E-05	2.57	Normal up vs > 5 Years Off IS Tolerant
210212_PM_x_at	MTCP1NB	mature T-cell proliferation 1 neighbor	1.57E-05	1.64	Normal up vs > 5 Years Off IS Tolerant
225519_PM_at	PPP4R2	protein phosphatase 4, regulatory subunit 2	1.61E-05	1.70	Normal up vs > 5 Years Off IS Tolerant
226635_PM_at	LOC401504	hypothetical LOC401504	1.62E-05	1.68	Normal up vs > 5 Years Off IS Tolerant
211282_PM_x_at	TNFRSF25	tumor necrosis factor receptor superfamily, member 25	1.64E-05	3.09	Normal up vs > 5 Years Off IS Tolerant
209398_PM_at	HIST1H1C	histone cluster 1, H1c	1.64E-05	2.61	Normal up vs > 5 Years Off IS Tolerant
244845_PM_at	---	---	1.65E-05	2.71	Normal up vs > 5 Years Off IS Tolerant

226586_PM_at	ANKS6	ankyrin repeat and sterile alpha motif domain containing 6	1.66E-05	1.69	Normal up vs > 5 Years Off IS Tolerant
240365_PM_at	LOC647946	hypothetical LOC647946	1.66E-05	-1.64	Normal down vs > 5 Years Off IS Tolerant
221606_PM_s_at	HMG5	high-mobility group nucleosome binding domain 5	1.66E-05	1.77	Normal up vs > 5 Years Off IS Tolerant
202746_PM_at	ITM2A	integral membrane protein 2A	1.67E-05	4.09	Normal up vs > 5 Years Off IS Tolerant
230612_PM_at	WDR73	WD repeat domain 73	1.68E-05	1.77	Normal up vs > 5 Years Off IS Tolerant
1555960_PM_at	HINT1	histidine triad nucleotide binding protein 1	1.68E-05	2.51	Normal up vs > 5 Years Off IS Tolerant
238910_PM_at	---	---	1.71E-05	2.45	Normal up vs > 5 Years Off IS Tolerant
211983_PM_x_at	ACTG1	actin, gamma 1	1.71E-05	-1.17	Normal down vs > 5 Years Off IS Tolerant
213039_PM_at	ARHGEF18	Rho/Rac guanine nucleotide exchange factor (GEF) 18	1.75E-05	1.56	Normal up vs > 5 Years Off IS Tolerant
242860_PM_at	---	---	1.76E-05	-1.64	Normal down vs > 5 Years Off IS Tolerant
215567_PM_at	FCF1	FCF1 small subunit (SSU) processome component homolog (<i>S. cerevisiae</i>)	1.76E-05	2.12	Normal up vs > 5 Years Off IS Tolerant
214999_PM_s_at	RAB11FIP3	RAB11 family interacting protein 3 (class II)	1.77E-05	1.50	Normal up vs > 5 Years Off IS Tolerant
212821_PM_at	PLEKHG3	pleckstrin homology domain containing, family G (with RhoGef domain) member 3	1.79E-05	-1.78	Normal down vs > 5 Years Off IS Tolerant
244844_PM_at	MRS2	MRS2 magnesium homeostasis factor homolog (<i>S. cerevisiae</i>)	1.79E-05	-1.73	Normal down vs > 5 Years Off IS Tolerant
1552634_PM_a_at	ZNF101	zinc finger protein 101	1.79E-05	3.04	Normal up vs > 5 Years Off IS Tolerant
214749_PM_s_at	ARMCX6	armadillo repeat containing, X-linked 6	1.81E-05	1.40	Normal up vs > 5 Years Off IS Tolerant
226787_PM_at	ZNF18	zinc finger protein 18	1.82E-05	1.49	Normal up vs > 5 Years Off IS Tolerant
207625_PM_s_at	CBFA2T2	core-binding factor, runt domain, alpha subunit 2; translocated to, 2	1.82E-05	1.80	Normal up vs > 5 Years Off IS Tolerant
1554229_PM_at	C5orf41	chromosome 5 open reading frame 41	1.85E-05	3.09	Normal up vs > 5 Years Off IS Tolerant

212069_PM_s_at	BAT2L1	HLA-B associated transcript 2-like 1	1.88E-05	2.05	Normal up vs > 5 Years Off IS Tolerant
222317_PM_at	PDE3B	phosphodiesterase 3B, cGMP-inhibited	1.88E-05	3.73	Normal up vs > 5 Years Off IS Tolerant
1554678_PM_s_at	HNRPDL	heterogeneous nuclear ribonucleoprotein D-like	1.89E-05	1.76	Normal up vs > 5 Years Off IS Tolerant
1555865_PM_at	LOC255512	hypothetical LOC255512	1.90E-05	1.62	Normal up vs > 5 Years Off IS Tolerant
212076_PM_at	MLL	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila)	1.92E-05	1.89	Normal up vs > 5 Years Off IS Tolerant
209447_PM_at	SYNE1	spectrin repeat containing, nuclear envelope 1	1.93E-05	1.99	Normal up vs > 5 Years Off IS Tolerant
205353_PM_s_at	PEBP1	phosphatidylethanolamine binding protein 1	1.93E-05	1.73	Normal up vs > 5 Years Off IS Tolerant
217521_PM_at	---	---	1.95E-05	-2.53	Normal down vs > 5 Years Off IS Tolerant
224847_PM_at	CDK6	cyclin-dependent kinase 6	1.97E-05	2.18	Normal up vs > 5 Years Off IS Tolerant
225783_PM_at	UBE2F	ubiquitin-conjugating enzyme E2F (putative)	1.98E-05	1.95	Normal up vs > 5 Years Off IS Tolerant
226869_PM_at	MEGF6	multiple EGF-like-domains 6	1.99E-05	2.45	Normal up vs > 5 Years Off IS Tolerant
203647_PM_s_at	FDX1	ferredoxin 1	2.02E-05	2.13	Normal up vs > 5 Years Off IS Tolerant
229116_PM_at	CNKSR2	connector enhancer of kinase suppressor of Ras 2	2.03E-05	3.08	Normal up vs > 5 Years Off IS Tolerant
239893_PM_at	---	---	2.03E-05	2.61	Normal up vs > 5 Years Off IS Tolerant
225698_PM_at	NCRNA00219	non-protein coding RNA 219	2.04E-05	1.75	Normal up vs > 5 Years Off IS Tolerant
227252_PM_at	LRP10	low density lipoprotein receptor-related protein 10	2.04E-05	2.03	Normal up vs > 5 Years Off IS Tolerant
226240_PM_at	TADA2B	transcriptional adaptor 2B	2.05E-05	1.96	Normal up vs > 5 Years Off IS Tolerant
238093_PM_at	LOC100129722	hypothetical LOC100129722	2.07E-05	-1.40	Normal down vs > 5 Years Off IS Tolerant
203600_PM_s_at	FAM193A	family with sequence similarity 193, member A	2.07E-05	1.68	Normal up vs > 5 Years Off IS Tolerant

228423_PM_at	MAP9	microtubule-associated protein 9	2.08E-05	2.43	Normal up vs > 5 Years Off IS Tolerant
227521_PM_at	FBXO33	F-box protein 33	2.08E-05	2.35	Normal up vs > 5 Years Off IS Tolerant
238050_PM_at	ANTXR2	anthrax toxin receptor 2	2.10E-05	-1.73	Normal down vs > 5 Years Off IS Tolerant
227795_PM_at	NDUFV1	NADH dehydrogenase (ubiquinone) flavoprotein 1, 51kDa	2.15E-05	-1.57	Normal down vs > 5 Years Off IS Tolerant
222995_PM_s_at	RHBDD2	rhomboid domain containing 2	2.17E-05	2.06	Normal up vs > 5 Years Off IS Tolerant
202541_PM_at	AIMP1	aminoacyl tRNA synthetase complex-interacting multifunctional protein 1	2.17E-05	1.97	Normal up vs > 5 Years Off IS Tolerant
240102_PM_at	---	---	2.18E-05	2.63	Normal up vs > 5 Years Off IS Tolerant
202439_PM_s_at	IDS	iduronate 2-sulfatase	2.20E-05	2.13	Normal up vs > 5 Years Off IS Tolerant
217058_PM_at	GNAS	GNAS complex locus	2.22E-05	-1.59	Normal down vs > 5 Years Off IS Tolerant
212539_PM_at	CHD1L	chromodomain helicase DNA binding protein 1-like	2.22E-05	1.34	Normal up vs > 5 Years Off IS Tolerant
209388_PM_at	PAPOLA	poly(A) polymerase alpha	2.23E-05	1.89	Normal up vs > 5 Years Off IS Tolerant
202420_PM_s_at	DHX9	DEAH (Asp-Glu-Ala-His) box polypeptide 9	2.23E-05	1.45	Normal up vs > 5 Years Off IS Tolerant
209337_PM_at	PSIP1	PC4 and SFRS1 interacting protein 1	2.25E-05	1.93	Normal up vs > 5 Years Off IS Tolerant
227450_PM_at	ERP27	endoplasmic reticulum protein 27	2.25E-05	1.95	Normal up vs > 5 Years Off IS Tolerant
212411_PM_at	IMP4	IMP4, U3 small nucleolar ribonucleoprotein, homolog (yeast)	2.30E-05	1.46	Normal up vs > 5 Years Off IS Tolerant
218016_PM_s_at	POLR3E	polymerase (RNA) III (DNA directed) polypeptide E (80kD)	2.31E-05	1.99	Normal up vs > 5 Years Off IS Tolerant
224810_PM_s_at	ANKRD13A	ankyrin repeat domain 13A	2.31E-05	1.23	Normal up vs > 5 Years Off IS Tolerant
225879_PM_at	TSEN54	tRNA splicing endonuclease 54 homolog (<i>S. cerevisiae</i>)	2.33E-05	2.19	Normal up vs > 5 Years Off IS Tolerant
222326_PM_at	---	---	2.34E-05	5.25	Normal up vs > 5 Years Off IS Tolerant

208322_PM_s_at	ST3GAL1	ST3 beta-galactoside alpha-2,3-sialyltransferase 1	2.34E-05	1.54	Normal up vs > 5 Years Off IS Tolerant
202304_PM_at	FNDC3A	fibronectin type III domain containing 3A	2.36E-05	2.03	Normal up vs > 5 Years Off IS Tolerant
212548_PM_s_at	FRYL	FRY-like	2.38E-05	1.43	Normal up vs > 5 Years Off IS Tolerant
232284_PM_at	PSMD6	Proteasome (prosome, macropain) 26S subunit, non-ATPase, 6	2.40E-05	2.60	Normal up vs > 5 Years Off IS Tolerant
212660_PM_at	PHF15	PHD finger protein 15	2.42E-05	2.31	Normal up vs > 5 Years Off IS Tolerant
1560559_PM_at	---	---	2.42E-05	-1.65	Normal down vs > 5 Years Off IS Tolerant
214039_PM_s_at	LAPTM4B	lysosomal protein transmembrane 4 beta	2.43E-05	2.48	Normal up vs > 5 Years Off IS Tolerant
221503_PM_s_at	KPNA3	karyopherin alpha 3 (importin alpha 4)	2.43E-05	1.76	Normal up vs > 5 Years Off IS Tolerant
229872_PM_s_at	LOC100132999	hypothetical LOC100132999	2.44E-05	1.95	Normal up vs > 5 Years Off IS Tolerant
212622_PM_at	TMEM41B	transmembrane protein 41B	2.44E-05	1.69	Normal up vs > 5 Years Off IS Tolerant
221235_PM_s_at	TGFBRAP1	transforming growth factor, beta receptor associated protein 1	2.46E-05	1.74	Normal up vs > 5 Years Off IS Tolerant
229083_PM_at	---	---	2.46E-05	2.10	Normal up vs > 5 Years Off IS Tolerant
218696_PM_at	EIF2AK3	eukaryotic translation initiation factor 2-alpha kinase 3	2.46E-05	2.37	Normal up vs > 5 Years Off IS Tolerant
228012_PM_at	MATR3	matrin 3	2.47E-05	1.83	Normal up vs > 5 Years Off IS Tolerant
218569_PM_s_at	KBTBD4	kelch repeat and BTB (POZ) domain containing 4	2.52E-05	2.48	Normal up vs > 5 Years Off IS Tolerant
242132_PM_x_at	---	---	2.53E-05	-1.36	Normal down vs > 5 Years Off IS Tolerant
213360_PM_s_at	POM121 /// POM121C	POM121 membrane glycoprotein /// POM121 membrane glycoprotein C	2.57E-05	1.29	Normal up vs > 5 Years Off IS Tolerant
1556034_PM_s_at	MTMR11	myotubularin related protein 11	2.57E-05	-1.93	Normal down vs > 5 Years Off IS Tolerant
213666_PM_at	6-Sep	septin 6	2.57E-05	2.09	Normal up vs > 5 Years Off IS Tolerant

213598_PM_at	---	---	2.58E-05	2.13	Normal up vs > 5 Years Off IS Tolerant
241446_PM_at	ADAM28	ADAM metallopeptidase domain 28	2.59E-05	-1.45	Normal down vs > 5 Years Off IS Tolerant
1558369_PM_at	MPHOSPH9	M-phase phosphoprotein 9	2.61E-05	2.38	Normal up vs > 5 Years Off IS Tolerant
240746_PM_s_at	---	---	2.64E-05	-1.50	Normal down vs > 5 Years Off IS Tolerant
217883_PM_at	MMADHC	methylmalonic aciduria (cobalamin deficiency) cblD type, with homocystinuria	2.65E-05	1.45	Normal up vs > 5 Years Off IS Tolerant
221645_PM_s_at	ZNF83	zinc finger protein 83	2.68E-05	2.18	Normal up vs > 5 Years Off IS Tolerant
212485_PM_at	GPATCH8	G patch domain containing 8	2.69E-05	1.57	Normal up vs > 5 Years Off IS Tolerant
239212_PM_at	LTV1	LTV1 homolog (S. cerevisiae)	2.70E-05	2.03	Normal up vs > 5 Years Off IS Tolerant
212259_PM_s_at	PBXIP1	pre-B-cell leukemia homeobox interacting protein 1	2.70E-05	2.12	Normal up vs > 5 Years Off IS Tolerant
203519_PM_s_at	UPF2	UPF2 regulator of nonsense transcripts homolog (yeast)	2.70E-05	1.60	Normal up vs > 5 Years Off IS Tolerant
229231_PM_at	LRR37B	leucine rich repeat containing 37B	2.74E-05	1.69	Normal up vs > 5 Years Off IS Tolerant
227814_PM_at	WDR53	WD repeat domain 53	2.77E-05	1.53	Normal up vs > 5 Years Off IS Tolerant
240806_PM_at	RPL15	Ribosomal protein L15	2.77E-05	2.40	Normal up vs > 5 Years Off IS Tolerant
229838_PM_at	NUCB2	nucleobindin 2	2.78E-05	2.34	Normal up vs > 5 Years Off IS Tolerant
213208_PM_at	KIAA0240	KIAA0240	2.78E-05	1.86	Normal up vs > 5 Years Off IS Tolerant
227638_PM_at	KIAA1632	KIAA1632	2.79E-05	1.67	Normal up vs > 5 Years Off IS Tolerant
209282_PM_at	PRKD2	protein kinase D2	2.79E-05	1.81	Normal up vs > 5 Years Off IS Tolerant
223450_PM_s_at	COG3	component of oligomeric golgi complex 3	2.82E-05	1.56	Normal up vs > 5 Years Off IS Tolerant
227491_PM_at	ELOVL6	ELOVL family member 6, elongation of long chain fatty acids (FEN1/Elo2, SUR4/Elo3-like,	2.82E-05	1.56	Normal up vs > 5 Years Off IS Tolerant

211339_PM_s_at	ITK	IL2-inducible T-cell kinase	2.86E-05	3.19	Normal up vs > 5 Years Off IS Tolerant
230616_PM_at	LAMB2P1	laminin, beta 2 pseudogene 1	2.89E-05	1.77	Normal up vs > 5 Years Off IS Tolerant
204197_PM_s_at	RUNX3	runt-related transcription factor 3	2.92E-05	2.15	Normal up vs > 5 Years Off IS Tolerant
240139_PM_at	---	---	2.92E-05	2.09	Normal up vs > 5 Years Off IS Tolerant
221842_PM_s_at	ZNF131	zinc finger protein 131	2.92E-05	1.58	Normal up vs > 5 Years Off IS Tolerant
239063_PM_at	---	---	2.93E-05	1.66	Normal up vs > 5 Years Off IS Tolerant
229903_PM_x_at	RNPC3	RNA-binding region (RNP1, RRM) containing 3	2.94E-05	-1.72	Normal down vs > 5 Years Off IS Tolerant
212549_PM_at	STAT5B	signal transducer and activator of transcription 5B	2.95E-05	1.52	Normal up vs > 5 Years Off IS Tolerant
1569110_PM_x_at	LOC728613	programmed cell death 6 pseudogene	2.98E-05	4.45	Normal up vs > 5 Years Off IS Tolerant
226735_PM_at	TAPT1	transmembrane anterior posterior transformation 1	2.99E-05	2.05	Normal up vs > 5 Years Off IS Tolerant
225172_PM_at	CRAMP1L	Crm, cramped-like (Drosophila)	3.00E-05	1.87	Normal up vs > 5 Years Off IS Tolerant
235099_PM_at	CMTM8	CKLF-like MARVEL transmembrane domain containing 8	3.00E-05	2.00	Normal up vs > 5 Years Off IS Tolerant
227852_PM_at	RP9	retinitis pigmentosa 9 (autosomal dominant)	3.03E-05	1.95	Normal up vs > 5 Years Off IS Tolerant
222034_PM_at	GNB2L1	guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1	3.04E-05	2.19	Normal up vs > 5 Years Off IS Tolerant
218788_PM_s_at	SMYD3	SET and MYND domain containing 3	3.09E-05	2.11	Normal up vs > 5 Years Off IS Tolerant
212966_PM_at	HIC2	hypermethylated in cancer 2	3.10E-05	2.23	Normal up vs > 5 Years Off IS Tolerant
212742_PM_at	RNF115	ring finger protein 115	3.11E-05	1.66	Normal up vs > 5 Years Off IS Tolerant
211521_PM_s_at	CYTH4	cytohesin 4	3.12E-05	-1.77	Normal down vs > 5 Years Off IS Tolerant
225197_PM_at	---	---	3.13E-05	1.63	Normal up vs > 5 Years Off IS Tolerant

216154_PM_at	---	---	3.15E-05	-1.97	Normal down vs > 5 Years Off IS Tolerant
205510_PM_s_at	FLJ10038	hypothetical protein FLJ10038	3.17E-05	1.75	Normal up vs > 5 Years Off IS Tolerant
227844_PM_at	FMNL3	formin-like 3	3.17E-05	1.75	Normal up vs > 5 Years Off IS Tolerant
1558111_PM_at	MBNL1	muscleblind-like (Drosophila)	3.17E-05	1.75	Normal up vs > 5 Years Off IS Tolerant
244081_PM_at	---	---	3.18E-05	-1.46	Normal down vs > 5 Years Off IS Tolerant
235389_PM_at	PHF20	PHD finger protein 20	3.18E-05	2.00	Normal up vs > 5 Years Off IS Tolerant
215503_PM_at	SPINT3	serine peptidase inhibitor, Kunitz type, 3	3.19E-05	-1.42	Normal down vs > 5 Years Off IS Tolerant
224437_PM_s_at	VTA1	Vps20-associated 1 homolog (<i>S. cerevisiae</i>)	3.20E-05	-1.84	Normal down vs > 5 Years Off IS Tolerant
211727_PM_s_at	COX11	COX11 cytochrome c oxidase assembly homolog (yeast)	3.21E-05	1.86	Normal up vs > 5 Years Off IS Tolerant
230395_PM_at	---	---	3.22E-05	-1.75	Normal down vs > 5 Years Off IS Tolerant
222152_PM_at	PDCD6	Programmed cell death 6	3.23E-05	1.82	Normal up vs > 5 Years Off IS Tolerant
237429_PM_at	---	---	3.24E-05	2.33	Normal up vs > 5 Years Off IS Tolerant
200892_PM_s_at	TRA2B	transformer 2 beta homolog (<i>Drosophila</i>)	3.27E-05	1.41	Normal up vs > 5 Years Off IS Tolerant
214369_PM_s_at	RASGRP2	RAS guanyl releasing protein 2 (calcium and DAG-regulated)	3.29E-05	1.53	Normal up vs > 5 Years Off IS Tolerant
242429_PM_at	ZNF567	zinc finger protein 567	3.30E-05	2.44	Normal up vs > 5 Years Off IS Tolerant
216480_PM_x_at	MLLT10	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, <i>Drosophila</i>); translocate	3.31E-05	-1.45	Normal down vs > 5 Years Off IS Tolerant
221991_PM_at	NXPH3	neurexophilin 3	3.31E-05	-1.65	Normal down vs > 5 Years Off IS Tolerant
218164_PM_at	SPATA20	spermatogenesis associated 20	3.32E-05	2.40	Normal up vs > 5 Years Off IS Tolerant
232670_PM_at	---	---	3.33E-05	-2.20	Normal down vs > 5 Years Off IS Tolerant

211208_PM_s_at	CASK	calcium/calmodulin-dependent serine protein kinase (MAGUK family)	3.34E-05	1.71	Normal up vs > 5 Years Off IS Tolerant
223213_PM_s_at	ZHX1	zinc fingers and homeoboxes 1	3.36E-05	1.89	Normal up vs > 5 Years Off IS Tolerant
234099_PM_at	---	---	3.36E-05	-1.87	Normal down vs > 5 Years Off IS Tolerant
216857_PM_at	IL23A	Interleukin 23, alpha subunit p19	3.37E-05	1.97	Normal up vs > 5 Years Off IS Tolerant
209558_PM_s_at	HIP1R	huntingtin interacting protein 1 related	3.39E-05	2.48	Normal up vs > 5 Years Off IS Tolerant
209153_PM_s_at	TCF3	transcription factor 3 (E2A immunoglobulin enhancer binding factors E12/E47)	3.40E-05	1.96	Normal up vs > 5 Years Off IS Tolerant
215696_PM_s_at	SEC16A	SEC16 homolog A (<i>S. cerevisiae</i>)	3.40E-05	1.51	Normal up vs > 5 Years Off IS Tolerant
244795_PM_at	UQCC	ubiquinol-cytochrome c reductase complex chaperone	3.42E-05	-2.15	Normal down vs > 5 Years Off IS Tolerant
208682_PM_s_at	MAGED2	melanoma antigen family D, 2	3.43E-05	1.77	Normal up vs > 5 Years Off IS Tolerant
215038_PM_s_at	SETD2	SET domain containing 2	3.43E-05	1.97	Normal up vs > 5 Years Off IS Tolerant
202747_PM_s_at	ITM2A	integral membrane protein 2A	3.45E-05	3.41	Normal up vs > 5 Years Off IS Tolerant
212862_PM_at	CDS2	CDP-diacylglycerol synthase (phosphatidate cytidyltransferase) 2	3.45E-05	2.05	Normal up vs > 5 Years Off IS Tolerant
1554129_PM_a_at	ADIG	adipogenin	3.47E-05	-1.57	Normal down vs > 5 Years Off IS Tolerant
200944_PM_s_at	HMGN1	high-mobility group nucleosome binding domain 1	3.47E-05	1.32	Normal up vs > 5 Years Off IS Tolerant
211506_PM_s_at	IL8	interleukin 8	3.48E-05	10.59	Normal up vs > 5 Years Off IS Tolerant
203845_PM_at	KAT2B	K(lysine) acetyltransferase 2B	3.52E-05	1.69	Normal up vs > 5 Years Off IS Tolerant
1556451_PM_at	---	---	3.60E-05	3.24	Normal up vs > 5 Years Off IS Tolerant
1557297_PM_at	---	---	3.63E-05	-1.38	Normal down vs > 5 Years Off IS Tolerant
210603_PM_at	NAA11	N(alpha)-acetyltransferase 11, NatA catalytic subunit	3.63E-05	-2.38	Normal down vs > 5 Years Off IS Tolerant

227527_PM_at	MLL2	myeloid/lymphoid or mixed-lineage leukemia 2	3.64E-05	1.48	Normal up vs > 5 Years Off IS Tolerant
212400_PM_at	FAM102A	family with sequence similarity 102, member A	3.65E-05	3.05	Normal up vs > 5 Years Off IS Tolerant
223247_PM_at	MED10	mediator complex subunit 10	3.66E-05	1.70	Normal up vs > 5 Years Off IS Tolerant
209023_PM_s_at	STAG2	stromal antigen 2	3.67E-05	1.58	Normal up vs > 5 Years Off IS Tolerant
225628_PM_s_at	MLLT6	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocate	3.67E-05	1.90	Normal up vs > 5 Years Off IS Tolerant
202005_PM_at	ST14	suppression of tumorigenicity 14 (colon carcinoma)	3.75E-05	-2.26	Normal down vs > 5 Years Off IS Tolerant
226915_PM_s_at	ARPC5L	actin related protein 2/3 complex, subunit 5-like	3.75E-05	1.60	Normal up vs > 5 Years Off IS Tolerant
1556541_PM_s_at	---	---	3.80E-05	-1.57	Normal down vs > 5 Years Off IS Tolerant
227412_PM_at	PPP1R3E	protein phosphatase 1, regulatory (inhibitor) subunit 3E	3.81E-05	2.67	Normal up vs > 5 Years Off IS Tolerant
201457_PM_x_at	BUB3	budding uninhibited by benzimidazoles 3 homolog (yeast)	3.81E-05	1.60	Normal up vs > 5 Years Off IS Tolerant
240644_PM_at	---	---	3.85E-05	-1.44	Normal down vs > 5 Years Off IS Tolerant
203353_PM_s_at	MBD1	methyl-CpG binding domain protein 1	3.87E-05	1.47	Normal up vs > 5 Years Off IS Tolerant
210555_PM_s_at	NFATC3	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3	3.88E-05	1.90	Normal up vs > 5 Years Off IS Tolerant
226434_PM_at	C7orf47	chromosome 7 open reading frame 47	3.90E-05	1.58	Normal up vs > 5 Years Off IS Tolerant
1553254_PM_at	MAGEE2	melanoma antigen family E, 2	3.91E-05	-1.33	Normal down vs > 5 Years Off IS Tolerant
201648_PM_at	JAK1	Janus kinase 1	3.94E-05	1.35	Normal up vs > 5 Years Off IS Tolerant
207974_PM_s_at	SKP1	S-phase kinase-associated protein 1	3.95E-05	1.61	Normal up vs > 5 Years Off IS Tolerant
1562926_PM_at	---	---	3.95E-05	-1.43	Normal down vs > 5 Years Off IS Tolerant
244891_PM_x_at	---	---	3.95E-05	-1.39	Normal down vs > 5 Years Off IS Tolerant

238389_PM_s_at	---	---	3.99E-05	3.38	Normal up vs > 5 Years Off IS Tolerant
232483_PM_at	MED17	mediator complex subunit 17	4.01E-05	2.40	Normal up vs > 5 Years Off IS Tolerant
213145_PM_at	FBXL14	F-box and leucine-rich repeat protein 14	4.04E-05	1.66	Normal up vs > 5 Years Off IS Tolerant
225821_PM_s_at	BOD1L	biorientation of chromosomes in cell division 1-like	4.06E-05	1.32	Normal up vs > 5 Years Off IS Tolerant
218958_PM_at	C19orf60	chromosome 19 open reading frame 60	4.06E-05	1.54	Normal up vs > 5 Years Off IS Tolerant
225649_PM_s_at	STK35	serine/threonine kinase 35	4.07E-05	1.86	Normal up vs > 5 Years Off IS Tolerant
1567288_PM_at	OR5K1	olfactory receptor, family 5, subfamily K, member 1	4.07E-05	-1.45	Normal down vs > 5 Years Off IS Tolerant
215785_PM_s_at	CYFIP2	cytoplasmic FMR1 interacting protein 2	4.08E-05	1.59	Normal up vs > 5 Years Off IS Tolerant
204861_PM_s_at	NAIP	NLR family, apoptosis inhibitory protein	4.09E-05	-2.29	Normal down vs > 5 Years Off IS Tolerant
238346_PM_s_at	TGS1	trimethylguanosine synthase 1	4.11E-05	1.79	Normal up vs > 5 Years Off IS Tolerant
224797_PM_at	ARRDC3	arrestin domain containing 3	4.11E-05	2.05	Normal up vs > 5 Years Off IS Tolerant
208598_PM_s_at	HUWE1	HECT, UBA and WWE domain containing 1	4.15E-05	1.36	Normal up vs > 5 Years Off IS Tolerant
1565729_PM_at	---	---	4.15E-05	-1.41	Normal down vs > 5 Years Off IS Tolerant
235291_PM_s_at	FLJ32255	hypothetical LOC643977	4.18E-05	2.69	Normal up vs > 5 Years Off IS Tolerant
207230_PM_at	CDON	Cdon homolog (mouse)	4.19E-05	-1.51	Normal down vs > 5 Years Off IS Tolerant
215961_PM_at	F12	coagulation factor XII (Hageman factor)	4.19E-05	-1.62	Normal down vs > 5 Years Off IS Tolerant
213243_PM_at	VPS13B	vacuolar protein sorting 13 homolog B (yeast)	4.19E-05	2.05	Normal up vs > 5 Years Off IS Tolerant
207001_PM_x_at	TSC22D3	TSC22 domain family, member 3	4.20E-05	2.15	Normal up vs > 5 Years Off IS Tolerant
224502_PM_s_at	KIAA1191	KIAA1191	4.21E-05	1.51	Normal up vs > 5 Years Off IS Tolerant

1562443_PM_at	CLVS2	clavesin 2	4.22E-05	-1.50	Normal down vs > 5 Years Off IS Tolerant
214741_PM_at	ZNF131	zinc finger protein 131	4.26E-05	2.50	Normal up vs > 5 Years Off IS Tolerant
222593_PM_s_at	SPATS2	spermatogenesis associated, serine-rich 2	4.30E-05	2.08	Normal up vs > 5 Years Off IS Tolerant
236013_PM_at	CACNA1E	calcium channel, voltage-dependent, R type, alpha 1E subunit	4.31E-05	-1.46	Normal down vs > 5 Years Off IS Tolerant
240052_PM_at	ITPR1	inositol 1,4,5-triphosphate receptor, type 1	4.31E-05	2.22	Normal up vs > 5 Years Off IS Tolerant
212579_PM_at	SMCHD1	structural maintenance of chromosomes flexible hinge domain containing 1	4.32E-05	1.57	Normal up vs > 5 Years Off IS Tolerant
209075_PM_s_at	ISCU	iron-sulfur cluster scaffold homolog (E. coli)	4.32E-05	1.43	Normal up vs > 5 Years Off IS Tolerant
212247_PM_at	NUP205	nucleoporin 205kDa	4.33E-05	1.47	Normal up vs > 5 Years Off IS Tolerant
216383_PM_at	RPL18A /// RPL18AP3	ribosomal protein L18a /// ribosomal protein L18a pseudogene 3	4.33E-05	1.84	Normal up vs > 5 Years Off IS Tolerant
229820_PM_at	LOC440993	hypothetical LOC440993	4.33E-05	2.48	Normal up vs > 5 Years Off IS Tolerant
226318_PM_at	TBRG1	transforming growth factor beta regulator 1	4.39E-05	1.45	Normal up vs > 5 Years Off IS Tolerant
244110_PM_at	MLL	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila)	4.40E-05	1.89	Normal up vs > 5 Years Off IS Tolerant
1564838_PM_a_at	LOC151760	hypothetical LOC151760	4.41E-05	-1.56	Normal down vs > 5 Years Off IS Tolerant
203408_PM_s_at	SATB1	SATB homeobox 1	4.41E-05	1.86	Normal up vs > 5 Years Off IS Tolerant
227783_PM_at	CCDC57	coiled-coil domain containing 57	4.44E-05	1.42	Normal up vs > 5 Years Off IS Tolerant
234692_PM_at	---	---	4.47E-05	-1.57	Normal down vs > 5 Years Off IS Tolerant
239619_PM_at	---	---	4.48E-05	2.84	Normal up vs > 5 Years Off IS Tolerant
235005_PM_at	DIS3L	DIS3 mitotic control homolog (S. cerevisiae)-like	4.49E-05	1.84	Normal up vs > 5 Years Off IS Tolerant
238247_PM_at	LOC100506942	hypothetical LOC100506942	4.51E-05	-1.39	Normal down vs > 5 Years Off IS Tolerant

200933_PM_x_at	RPS4X	ribosomal protein S4, X-linked	4.51E-05	1.25	Normal up vs > 5 Years Off IS Tolerant
214139_PM_at	ARID4B	AT rich interactive domain 4B (RBP1-like)	4.53E-05	-1.52	Normal down vs > 5 Years Off IS Tolerant
227580_PM_s_at	TECPR1	tectonin beta-propeller repeat containing 1	4.54E-05	1.54	Normal up vs > 5 Years Off IS Tolerant
235045_PM_at	RBM7	RNA binding motif protein 7	4.55E-05	1.71	Normal up vs > 5 Years Off IS Tolerant
1554014_PM_at	CHD2	chromodomain helicase DNA binding protein 2	4.55E-05	1.97	Normal up vs > 5 Years Off IS Tolerant
202690_PM_s_at	SNRPD1	small nuclear ribonucleoprotein D1 polypeptide 16kDa	4.56E-05	1.88	Normal up vs > 5 Years Off IS Tolerant
227188_PM_at	C21orf63	chromosome 21 open reading frame 63	4.57E-05	1.68	Normal up vs > 5 Years Off IS Tolerant
238016_PM_s_at	---	---	4.58E-05	-1.48	Normal down vs > 5 Years Off IS Tolerant
241163_PM_at	---	---	4.59E-05	-1.53	Normal down vs > 5 Years Off IS Tolerant
1555613_PM_a_at	ZAP70	zeta-chain (TCR) associated protein kinase 70kDa	4.61E-05	2.76	Normal up vs > 5 Years Off IS Tolerant
204588_PM_s_at	SLC7A7	solute carrier family 7 (cationic amino acid transporter, y+ system), member 7	4.61E-05	-1.69	Normal down vs > 5 Years Off IS Tolerant
206003_PM_at	CEP135	centrosomal protein 135kDa	4.62E-05	1.60	Normal up vs > 5 Years Off IS Tolerant
219013_PM_at	GALNT11	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 11 (Ga	4.67E-05	1.73	Normal up vs > 5 Years Off IS Tolerant
223875_PM_s_at	EPC1	enhancer of polycomb homolog 1 (Drosophila)	4.67E-05	1.76	Normal up vs > 5 Years Off IS Tolerant
206134_PM_at	ADAMDEC1	ADAM-like, decysin 1	4.68E-05	-1.88	Normal down vs > 5 Years Off IS Tolerant
225117_PM_at	KIAA1267	KIAA1267	4.68E-05	1.46	Normal up vs > 5 Years Off IS Tolerant
209724_PM_s_at	ZFP161	zinc finger protein 161 homolog (mouse)	4.74E-05	1.74	Normal up vs > 5 Years Off IS Tolerant
212946_PM_at	KIAA0564	KIAA0564	4.76E-05	1.89	Normal up vs > 5 Years Off IS Tolerant
227263_PM_at	C8orf58	chromosome 8 open reading frame 58	4.76E-05	1.73	Normal up vs > 5 Years Off IS Tolerant

241010_PM_x_at	---	---	4.76E-05	-1.73	Normal down vs > 5 Years Off IS Tolerant
231169_PM_at	---	---	4.78E-05	2.08	Normal up vs > 5 Years Off IS Tolerant
222482_PM_at	SSBP3	single stranded DNA binding protein 3	4.79E-05	1.98	Normal up vs > 5 Years Off IS Tolerant
228664_PM_at	LOC100507602	hypothetical LOC100507602	4.81E-05	1.87	Normal up vs > 5 Years Off IS Tolerant
235038_PM_at	KRR1	KRR1, small subunit (SSU) processome component, homolog (yeast)	4.85E-05	1.69	Normal up vs > 5 Years Off IS Tolerant
207391_PM_s_at	PIP5K1A	phosphatidylinositol-4-phosphate 5-kinase, type I, alpha	4.91E-05	-1.92	Normal down vs > 5 Years Off IS Tolerant
224327_PM_s_at	DGAT2	diacylglycerol O-acyltransferase 2	4.93E-05	-2.05	Normal down vs > 5 Years Off IS Tolerant
202730_PM_s_at	PDCD4	programmed cell death 4 (neoplastic transformation inhibitor)	4.93E-05	1.70	Normal up vs > 5 Years Off IS Tolerant
244730_PM_x_at	LOC100129195	hypothetical LOC100129195	4.93E-05	-1.48	Normal down vs > 5 Years Off IS Tolerant
206884_PM_s_at	SCEL	sciellin	4.97E-05	-1.66	Normal down vs > 5 Years Off IS Tolerant
39248_PM_at	AQP3	aquaporin 3 (Gill blood group)	4.98E-05	3.10	Normal up vs > 5 Years Off IS Tolerant
202968_PM_s_at	DYRK2	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 2	5.00E-05	2.10	Normal up vs > 5 Years Off IS Tolerant
1568896_PM_at	STXBP5L	syntaxin binding protein 5-like	5.01E-05	-2.61	Normal down vs > 5 Years Off IS Tolerant
1559975_PM_at	BTG1	B-cell translocation gene 1, anti-proliferative	5.02E-05	3.76	Normal up vs > 5 Years Off IS Tolerant
1560087_PM_a_at	---	---	5.05E-05	-1.81	Normal down vs > 5 Years Off IS Tolerant
242136_PM_x_at	MGC70870	C-terminal binding protein 2 pseudogene	5.09E-05	-1.92	Normal down vs > 5 Years Off IS Tolerant
236313_PM_at	CDKN2B	cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4)	5.09E-05	-1.63	Normal down vs > 5 Years Off IS Tolerant
218570_PM_at	KBTBD4 /// PTPMT1	kelch repeat and BTB (POZ) domain containing 4 /// protein tyrosine phosphatase, mitoch	5.09E-05	2.09	Normal up vs > 5 Years Off IS Tolerant
221095_PM_s_at	KCNE2	potassium voltage-gated channel, Isk-related family, member 2	5.10E-05	-1.52	Normal down vs > 5 Years Off IS Tolerant

1553856_PM_s_at	P2RY10	purinergic receptor P2Y, G-protein coupled, 10	5.11E-05	2.36	Normal up vs > 5 Years Off IS Tolerant
217850_PM_at	GNL3	guanine nucleotide binding protein-like 3 (nucleolar)	5.11E-05	1.50	Normal up vs > 5 Years Off IS Tolerant
217988_PM_at	CCNB1IP1	cyclin B1 interacting protein 1	5.12E-05	1.76	Normal up vs > 5 Years Off IS Tolerant
1554933_PM_at	PSIP1	PC4 and SFRS1 interacting protein 1	5.14E-05	2.15	Normal up vs > 5 Years Off IS Tolerant
224759_PM_s_at	C12orf23	chromosome 12 open reading frame 23	5.14E-05	2.18	Normal up vs > 5 Years Off IS Tolerant
203884_PM_s_at	RAB11FIP2	RAB11 family interacting protein 2 (class I)	5.17E-05	1.73	Normal up vs > 5 Years Off IS Tolerant
236276_PM_at	---	---	5.18E-05	-1.46	Normal down vs > 5 Years Off IS Tolerant
227865_PM_at	C9orf103	chromosome 9 open reading frame 103	5.19E-05	1.80	Normal up vs > 5 Years Off IS Tolerant
217813_PM_s_at	SPIN1	spindlin 1	5.19E-05	1.99	Normal up vs > 5 Years Off IS Tolerant
225706_PM_at	GLCCI1	glucocorticoid induced transcript 1	5.22E-05	1.86	Normal up vs > 5 Years Off IS Tolerant
218237_PM_s_at	SLC38A1	solute carrier family 38, member 1	5.23E-05	1.88	Normal up vs > 5 Years Off IS Tolerant
203047_PM_at	STK10	serine/threonine kinase 10	5.24E-05	1.43	Normal up vs > 5 Years Off IS Tolerant
244492_PM_at	---	---	5.27E-05	2.09	Normal up vs > 5 Years Off IS Tolerant
234761_PM_at	---	---	5.28E-05	-1.68	Normal down vs > 5 Years Off IS Tolerant
202900_PM_s_at	NUP88	nucleoporin 88kDa	5.30E-05	1.98	Normal up vs > 5 Years Off IS Tolerant
1552564_PM_at	NUDT9P1	nudix (nucleoside diphosphate linked moiety X)-type motif 9 pseudogene 1	5.34E-05	1.52	Normal up vs > 5 Years Off IS Tolerant
212205_PM_at	H2AFV	H2A histone family, member V	5.34E-05	1.47	Normal up vs > 5 Years Off IS Tolerant
221593_PM_s_at	RPL31	ribosomal protein L31	5.39E-05	1.68	Normal up vs > 5 Years Off IS Tolerant
209152_PM_s_at	TCF3	transcription factor 3 (E2A immunoglobulin enhancer binding factors E12/E47)	5.41E-05	2.14	Normal up vs > 5 Years Off IS Tolerant

202863_PM_at	SP100	SP100 nuclear antigen	5.44E-05	1.46	Normal up vs > 5 Years Off IS Tolerant
217978_PM_s_at	UBE2Q1	ubiquitin-conjugating enzyme E2Q family member 1	5.47E-05	1.34	Normal up vs > 5 Years Off IS Tolerant
1562254_PM_at	---	---	5.48E-05	-1.67	Normal down vs > 5 Years Off IS Tolerant
210145_PM_at	PLA2G4A	phospholipase A2, group IVA (cytosolic, calcium-dependent)	5.50E-05	-2.09	Normal down vs > 5 Years Off IS Tolerant
224704_PM_at	TNRC6A	trinucleotide repeat containing 6A	5.50E-05	1.59	Normal up vs > 5 Years Off IS Tolerant
203113_PM_s_at	EEF1D	eukaryotic translation elongation factor 1 delta (guanine nucleotide exchange protein)	5.52E-05	1.32	Normal up vs > 5 Years Off IS Tolerant
203218_PM_at	MAPK9	mitogen-activated protein kinase 9	5.52E-05	1.72	Normal up vs > 5 Years Off IS Tolerant
207416_PM_s_at	NFATC3	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3	5.55E-05	1.73	Normal up vs > 5 Years Off IS Tolerant
204323_PM_x_at	NF1	neurofibromin 1	5.58E-05	-1.94	Normal down vs > 5 Years Off IS Tolerant
242666_PM_at	---	---	5.58E-05	2.18	Normal up vs > 5 Years Off IS Tolerant
214030_PM_at	CRYBG3	beta-gamma crystallin domain containing 3	5.59E-05	-1.86	Normal down vs > 5 Years Off IS Tolerant
220303_PM_at	PDZD3	PDZ domain containing 3	5.62E-05	-1.77	Normal down vs > 5 Years Off IS Tolerant
1561014_PM_at	---	---	5.64E-05	-1.47	Normal down vs > 5 Years Off IS Tolerant
206739_PM_at	HOXC5	homeobox C5	5.65E-05	-1.45	Normal down vs > 5 Years Off IS Tolerant
209142_PM_s_at	UBE2G1	ubiquitin-conjugating enzyme E2G 1 (UBC7 homolog, yeast)	5.67E-05	2.05	Normal up vs > 5 Years Off IS Tolerant
222537_PM_s_at	CDC42SE1	CDC42 small effector 1	5.70E-05	1.33	Normal up vs > 5 Years Off IS Tolerant
239295_PM_at	SRSF12	serine/arginine-rich splicing factor 12	5.70E-05	-1.55	Normal down vs > 5 Years Off IS Tolerant
238697_PM_at	---	---	5.71E-05	1.43	Normal up vs > 5 Years Off IS Tolerant
201504_PM_s_at	TSN	translin	5.73E-05	2.38	Normal up vs > 5 Years Off IS Tolerant

231759_PM_at	TAL2	T-cell acute lymphocytic leukemia 2	5.74E-05	-1.47	Normal down vs > 5 Years Off IS Tolerant
208602_PM_x_at	CD6	CD6 molecule	5.74E-05	1.85	Normal up vs > 5 Years Off IS Tolerant
240570_PM_at	INADL	InaD-like (Drosophila)	5.76E-05	1.78	Normal up vs > 5 Years Off IS Tolerant
212356_PM_at	KHNYN	KH and NYN domain containing	5.77E-05	1.51	Normal up vs > 5 Years Off IS Tolerant
1557350_PM_at	G3BP1	GTPase activating protein (SH3 domain) binding protein 1	5.82E-05	2.54	Normal up vs > 5 Years Off IS Tolerant
1556129_PM_at	LOC642533	hypothetical LOC642533	5.82E-05	-1.60	Normal down vs > 5 Years Off IS Tolerant
202521_PM_at	CTCF	CCCTC-binding factor (zinc finger protein)	5.84E-05	1.56	Normal up vs > 5 Years Off IS Tolerant
225614_PM_at	SAAL1	serum amyloid A-like 1	5.86E-05	1.69	Normal up vs > 5 Years Off IS Tolerant
1560282_PM_at	---	---	5.89E-05	-1.93	Normal down vs > 5 Years Off IS Tolerant
225533_PM_at	PHF19	PHD finger protein 19	5.93E-05	1.44	Normal up vs > 5 Years Off IS Tolerant
238737_PM_at	C1orf83	chromosome 1 open reading frame 83	5.95E-05	-1.46	Normal down vs > 5 Years Off IS Tolerant
230848_PM_s_at	MGA	MAX gene associated	5.96E-05	-1.76	Normal down vs > 5 Years Off IS Tolerant
225633_PM_at	DPY19L3	dpy-19-like 3 (C. elegans)	5.98E-05	1.91	Normal up vs > 5 Years Off IS Tolerant
205878_PM_at	POU6F1	POU class 6 homeobox 1	5.99E-05	1.80	Normal up vs > 5 Years Off IS Tolerant
218677_PM_at	S100A14	S100 calcium binding protein A14	5.99E-05	-1.50	Normal down vs > 5 Years Off IS Tolerant
211893_PM_x_at	CD6	CD6 molecule	6.00E-05	2.06	Normal up vs > 5 Years Off IS Tolerant
216347_PM_s_at	PPP1R13B	protein phosphatase 1, regulatory (inhibitor) subunit 13B	6.01E-05	1.61	Normal up vs > 5 Years Off IS Tolerant
238026_PM_at	RPL35A	ribosomal protein L35a	6.02E-05	2.46	Normal up vs > 5 Years Off IS Tolerant
41644_PM_at	SASH1	SAM and SH3 domain containing 1	6.05E-05	-2.19	Normal down vs > 5 Years Off IS Tolerant

221507_PM_at	TNPO2	transportin 2	6.06E-05	1.91	Normal up vs > 5 Years Off IS Tolerant
204432_PM_at	SOX12	SRY (sex determining region Y)-box 12	6.08E-05	1.49	Normal up vs > 5 Years Off IS Tolerant
220816_PM_at	LPAR3	lysophosphatidic acid receptor 3	6.09E-05	-1.46	Normal down vs > 5 Years Off IS Tolerant
214220_PM_s_at	ALMS1	Alstrom syndrome 1	6.10E-05	1.92	Normal up vs > 5 Years Off IS Tolerant
215662_PM_at	---	---	6.12E-05	-1.43	Normal down vs > 5 Years Off IS Tolerant
203048_PM_s_at	TTC37	tetratricopeptide repeat domain 37	6.14E-05	1.95	Normal up vs > 5 Years Off IS Tolerant
234192_PM_s_at	GKAP1	G kinase anchoring protein 1	6.14E-05	2.07	Normal up vs > 5 Years Off IS Tolerant
214032_PM_at	ZAP70	zeta-chain (TCR) associated protein kinase 70kDa	6.16E-05	2.31	Normal up vs > 5 Years Off IS Tolerant
204750_PM_s_at	DSC2	desmocollin 2	6.26E-05	-1.85	Normal down vs > 5 Years Off IS Tolerant
230656_PM_s_at	CIRH1A	cirrhosis, autosomal recessive 1A (cirhin)	6.28E-05	1.70	Normal up vs > 5 Years Off IS Tolerant
219798_PM_s_at	MEPCE	methylphosphate capping enzyme	6.31E-05	1.91	Normal up vs > 5 Years Off IS Tolerant
230768_PM_at	---	---	6.32E-05	1.78	Normal up vs > 5 Years Off IS Tolerant
230483_PM_at	---	---	6.39E-05	1.85	Normal up vs > 5 Years Off IS Tolerant
234064_PM_at	---	---	6.43E-05	-1.44	Normal down vs > 5 Years Off IS Tolerant
214104_PM_at	GPR161	G protein-coupled receptor 161	6.48E-05	-1.87	Normal down vs > 5 Years Off IS Tolerant
228345_PM_at	CHIC1	cysteine-rich hydrophobic domain 1	6.49E-05	2.17	Normal up vs > 5 Years Off IS Tolerant
229544_PM_at	---	---	6.49E-05	2.23	Normal up vs > 5 Years Off IS Tolerant
236097_PM_at	LOC100510093	hypothetical LOC100510093	6.50E-05	1.80	Normal up vs > 5 Years Off IS Tolerant
205192_PM_at	MAP3K14	mitogen-activated protein kinase kinase kinase 14	6.56E-05	1.67	Normal up vs > 5 Years Off IS Tolerant

203965_PM_at	USP20	ubiquitin specific peptidase 20	6.58E-05	1.67	Normal up vs > 5 Years Off IS Tolerant
227076_PM_at	NCAPH2	non-SMC condensin II complex, subunit H2	6.61E-05	1.65	Normal up vs > 5 Years Off IS Tolerant
220917_PM_s_at	WDR19	WD repeat domain 19	6.62E-05	1.93	Normal up vs > 5 Years Off IS Tolerant
213254_PM_at	TNRC6B	trinucleotide repeat containing 6B	6.62E-05	1.47	Normal up vs > 5 Years Off IS Tolerant
204936_PM_at	MAP4K2	mitogen-activated protein kinase kinase kinase kinase 2	6.63E-05	1.88	Normal up vs > 5 Years Off IS Tolerant
218422_PM_s_at	RBM26	RNA binding motif protein 26	6.64E-05	1.55	Normal up vs > 5 Years Off IS Tolerant
1569652_PM_at	MLLT3	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocate	6.65E-05	3.96	Normal up vs > 5 Years Off IS Tolerant
230196_PM_x_at	ARHGAP23	Rho GTPase activating protein 23	6.67E-05	-1.77	Normal down vs > 5 Years Off IS Tolerant
227979_PM_at	RBM4	RNA binding motif protein 4	6.71E-05	1.88	Normal up vs > 5 Years Off IS Tolerant
236832_PM_at	LOC221442	adenylate cyclase 10 pseudogene	6.72E-05	2.14	Normal up vs > 5 Years Off IS Tolerant
50314_PM_i_at	C20orf27	chromosome 20 open reading frame 27	6.74E-05	-2.07	Normal down vs > 5 Years Off IS Tolerant
226195_PM_at	C14orf179	chromosome 14 open reading frame 179	6.75E-05	1.86	Normal up vs > 5 Years Off IS Tolerant
209578_PM_s_at	POFUT2	protein O-fucosyltransferase 2	6.75E-05	1.53	Normal up vs > 5 Years Off IS Tolerant
38892_PM_at	KIAA0240	KIAA0240	6.81E-05	1.69	Normal up vs > 5 Years Off IS Tolerant
218346_PM_s_at	SESN1	sestrin 1	6.82E-05	1.81	Normal up vs > 5 Years Off IS Tolerant
238280_PM_at	CYB5RL	cytochrome b5 reductase-like	6.83E-05	-1.42	Normal down vs > 5 Years Off IS Tolerant
225629_PM_s_at	ZBTB4	zinc finger and BTB domain containing 4	6.83E-05	1.60	Normal up vs > 5 Years Off IS Tolerant
202774_PM_s_at	SFSWAP	splicing factor, suppressor of white-apricot homolog (Drosophila)	6.85E-05	1.39	Normal up vs > 5 Years Off IS Tolerant
1555931_PM_at	---	---	6.89E-05	-1.60	Normal down vs > 5 Years Off IS Tolerant

213980_PM_s_at	CTBP1	C-terminal binding protein 1	6.96E-05	1.40	Normal up vs > 5 Years Off IS Tolerant
203387_PM_s_at	TBC1D4	TBC1 domain family, member 4	6.97E-05	2.57	Normal up vs > 5 Years Off IS Tolerant
241114_PM_s_at	---	---	6.98E-05	-1.86	Normal down vs > 5 Years Off IS Tolerant
212080_PM_at	MLL	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila)	6.99E-05	1.87	Normal up vs > 5 Years Off IS Tolerant
242560_PM_at	FANCD2	Fanconi anemia, complementation group D2	7.04E-05	2.04	Normal up vs > 5 Years Off IS Tolerant
208309_PM_s_at	MALT1	mucosa associated lymphoid tissue lymphoma translocation gene 1	7.06E-05	2.20	Normal up vs > 5 Years Off IS Tolerant
216210_PM_x_at	TRIOBP	TRIO and F-actin binding protein	7.12E-05	-1.47	Normal down vs > 5 Years Off IS Tolerant
217729_PM_s_at	AES	amino-terminal enhancer of split	7.15E-05	1.65	Normal up vs > 5 Years Off IS Tolerant
222010_PM_at	TCP1	t-complex 1	7.17E-05	1.80	Normal up vs > 5 Years Off IS Tolerant
1558322_PM_a_at	PAQR9	progesterin and adipoQ receptor family member IX	7.24E-05	-1.66	Normal down vs > 5 Years Off IS Tolerant
232885_PM_at	NCRNA00081	non-protein coding RNA 81	7.25E-05	1.86	Normal up vs > 5 Years Off IS Tolerant
1563076_PM_x_at	---	---	7.27E-05	2.49	Normal up vs > 5 Years Off IS Tolerant
209881_PM_s_at	LAT /// SPNS1	linker for activation of T cells /// spinster homolog 1 (Drosophila)	7.30E-05	2.13	Normal up vs > 5 Years Off IS Tolerant
228826_PM_at	---	---	7.30E-05	2.17	Normal up vs > 5 Years Off IS Tolerant
1552520_PM_at	TMEM74	transmembrane protein 74	7.31E-05	-1.62	Normal down vs > 5 Years Off IS Tolerant
219108_PM_x_at	DDX27 /// SS18	DEAD (Asp-Glu-Ala-Asp) box polypeptide 27 /// synovial sarcoma translocation, chromosom	7.32E-05	1.43	Normal up vs > 5 Years Off IS Tolerant
201023_PM_at	TAF7	TAF7 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 55kDa	7.34E-05	1.65	Normal up vs > 5 Years Off IS Tolerant
233292_PM_s_at	ANKHD1 /// ANKHD1-EIF4EBP3	ankyrin repeat and KH domain containing 1 /// ANKHD1-EIF4EBP3 readthrough	7.36E-05	1.61	Normal up vs > 5 Years Off IS Tolerant
225699_PM_at	C7orf40	chromosome 7 open reading frame 40	7.51E-05	2.64	Normal up vs > 5 Years Off IS Tolerant

237486_PM_at	---	---	7.57E-05	-1.59	Normal down vs > 5 Years Off IS Tolerant
207237_PM_at	KCNA3	potassium voltage-gated channel, shaker-related subfamily, member 3	7.61E-05	2.91	Normal up vs > 5 Years Off IS Tolerant
201386_PM_s_at	DHX15	DEAH (Asp-Glu-Ala-His) box polypeptide 15	7.66E-05	1.54	Normal up vs > 5 Years Off IS Tolerant
1556670_PM_at	---	---	7.68E-05	-1.42	Normal down vs > 5 Years Off IS Tolerant
202969_PM_at	DYRK2	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 2	7.68E-05	2.26	Normal up vs > 5 Years Off IS Tolerant
213394_PM_at	MAPKBP1	mitogen-activated protein kinase binding protein 1	7.69E-05	1.59	Normal up vs > 5 Years Off IS Tolerant
200608_PM_s_at	RAD21	RAD21 homolog (<i>S. pombe</i>)	7.70E-05	1.57	Normal up vs > 5 Years Off IS Tolerant
217439_PM_at	---	---	7.77E-05	-1.44	Normal down vs > 5 Years Off IS Tolerant
230758_PM_at	GEMIN8	gem (nuclear organelle) associated protein 8	7.82E-05	1.70	Normal up vs > 5 Years Off IS Tolerant
243888_PM_at	---	---	7.84E-05	2.39	Normal up vs > 5 Years Off IS Tolerant
1557908_PM_at	---	---	7.84E-05	-1.54	Normal down vs > 5 Years Off IS Tolerant
218648_PM_at	CRTC3	CREB regulated transcription coactivator 3	7.85E-05	1.60	Normal up vs > 5 Years Off IS Tolerant
216788_PM_at	---	---	7.85E-05	-1.75	Normal down vs > 5 Years Off IS Tolerant
206542_PM_s_at	SMARCA2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a	7.95E-05	1.61	Normal up vs > 5 Years Off IS Tolerant
209730_PM_at	SEMA3F	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3F	8.03E-05	-1.89	Normal down vs > 5 Years Off IS Tolerant
214157_PM_at	GNAS	GNAS complex locus	8.06E-05	2.40	Normal up vs > 5 Years Off IS Tolerant
225862_PM_at	SLC25A26	solute carrier family 25, member 26	8.06E-05	1.65	Normal up vs > 5 Years Off IS Tolerant
222848_PM_at	CENPK	centromere protein K	8.07E-05	3.48	Normal up vs > 5 Years Off IS Tolerant
202726_PM_at	LIG1	ligase I, DNA, ATP-dependent	8.18E-05	1.73	Normal up vs > 5 Years Off IS Tolerant

221047_PM_s_at	MARK1	MAP/microtubule affinity-regulating kinase 1	8.25E-05	-1.38	Normal down vs > 5 Years Off IS Tolerant
208607_PM_s_at	SAA1 /// SAA2	serum amyloid A1 /// serum amyloid A2	8.30E-05	-1.43	Normal down vs > 5 Years Off IS Tolerant
242550_PM_at	EIF3B	eukaryotic translation initiation factor 3, subunit B	8.32E-05	3.45	Normal up vs > 5 Years Off IS Tolerant
1566038_PM_at	DGCR7	DiGeorge syndrome critical region gene 7	8.34E-05	-1.43	Normal down vs > 5 Years Off IS Tolerant
203980_PM_at	FABP4	fatty acid binding protein 4, adipocyte	8.39E-05	-1.69	Normal down vs > 5 Years Off IS Tolerant
241683_PM_at	HECTD1	HECT domain containing 1	8.43E-05	-1.58	Normal down vs > 5 Years Off IS Tolerant
206045_PM_s_at	NOL4	nucleolar protein 4	8.43E-05	-1.50	Normal down vs > 5 Years Off IS Tolerant
218911_PM_at	YEATS4	YEATS domain containing 4	8.45E-05	2.25	Normal up vs > 5 Years Off IS Tolerant
210886_PM_x_at	TP53TG1	TP53 target 1 (non-protein coding)	8.46E-05	1.97	Normal up vs > 5 Years Off IS Tolerant
204699_PM_s_at	C1orf107	chromosome 1 open reading frame 107	8.50E-05	2.12	Normal up vs > 5 Years Off IS Tolerant
200704_PM_at	LITAF	lipopolysaccharide-induced TNF factor	8.56E-05	1.77	Normal up vs > 5 Years Off IS Tolerant
227414_PM_at	RHBDD1	rhomboid domain containing 1	8.56E-05	1.65	Normal up vs > 5 Years Off IS Tolerant
212577_PM_at	SMCHD1	structural maintenance of chromosomes flexible hinge domain containing 1	8.57E-05	1.66	Normal up vs > 5 Years Off IS Tolerant
212569_PM_at	SMCHD1	structural maintenance of chromosomes flexible hinge domain containing 1	8.57E-05	1.43	Normal up vs > 5 Years Off IS Tolerant
231971_PM_at	FANCM	Fanconi anemia, complementation group M	8.65E-05	-1.44	Normal down vs > 5 Years Off IS Tolerant
206419_PM_at	RORC	RAR-related orphan receptor C	8.68E-05	-1.51	Normal down vs > 5 Years Off IS Tolerant
1552440_PM_at	GPR182	G protein-coupled receptor 182	8.69E-05	-1.35	Normal down vs > 5 Years Off IS Tolerant
208771_PM_s_at	LTA4H	leukotriene A4 hydrolase	8.70E-05	-1.82	Normal down vs > 5 Years Off IS Tolerant
242800_PM_at	NHS	Nance-Horan syndrome (congenital cataracts and dental anomalies)	8.77E-05	-1.51	Normal down vs > 5 Years Off IS Tolerant

207023_PM_x_at	KRT10	keratin 10	8.77E-05	1.72	Normal up vs > 5 Years Off IS Tolerant
219673_PM_at	MCM9	minichromosome maintenance complex component 9	8.79E-05	2.28	Normal up vs > 5 Years Off IS Tolerant
202333_PM_s_at	UBE2B	ubiquitin-conjugating enzyme E2B (RAD6 homolog)	8.80E-05	1.51	Normal up vs > 5 Years Off IS Tolerant
212415_PM_at	6-Sep	septin 6	8.90E-05	1.63	Normal up vs > 5 Years Off IS Tolerant
208202_PM_s_at	PHF15	PHD finger protein 15	8.91E-05	1.73	Normal up vs > 5 Years Off IS Tolerant
244587_PM_at	ATF7	activating transcription factor 7	8.98E-05	-1.65	Normal down vs > 5 Years Off IS Tolerant
204355_PM_at	DHX30	DEAH (Asp-Glu-Ala-His) box polypeptide 30	9.00E-05	1.95	Normal up vs > 5 Years Off IS Tolerant
202890_PM_at	MAP7	microtubule-associated protein 7	9.01E-05	-1.91	Normal down vs > 5 Years Off IS Tolerant
228954_PM_at	LYSMD4	LysM, putative peptidoglycan-binding, domain containing 4	9.02E-05	1.53	Normal up vs > 5 Years Off IS Tolerant
209750_PM_at	NR1D2	nuclear receptor subfamily 1, group D, member 2	9.06E-05	3.48	Normal up vs > 5 Years Off IS Tolerant
210309_PM_at	RECQL5	RecQ protein-like 5	9.08E-05	-1.59	Normal down vs > 5 Years Off IS Tolerant
1559711_PM_at	FAM120A	family with sequence similarity 120A	9.09E-05	-1.37	Normal down vs > 5 Years Off IS Tolerant
235509_PM_at	C8orf38	chromosome 8 open reading frame 38	9.09E-05	1.97	Normal up vs > 5 Years Off IS Tolerant
237497_PM_at	---	---	9.12E-05	1.98	Normal up vs > 5 Years Off IS Tolerant
215201_PM_at	REPS1	RALBP1 associated Eps domain containing 1	9.12E-05	2.63	Normal up vs > 5 Years Off IS Tolerant
238043_PM_at	ARID1B	AT rich interactive domain 1B (SWI1-like)	9.14E-05	1.92	Normal up vs > 5 Years Off IS Tolerant
216794_PM_at	---	---	9.14E-05	-1.34	Normal down vs > 5 Years Off IS Tolerant
212684_PM_at	ZNF3	zinc finger protein 3	9.16E-05	1.72	Normal up vs > 5 Years Off IS Tolerant
213305_PM_s_at	PPP2R5C	protein phosphatase 2, regulatory subunit B', gamma	9.16E-05	1.67	Normal up vs > 5 Years Off IS Tolerant

212566_PM_at	MAP4	microtubule-associated protein 4	9.22E-05	1.60	Normal up vs > 5 Years Off IS Tolerant
236288_PM_at	RNF34	ring finger protein 34	9.24E-05	1.98	Normal up vs > 5 Years Off IS Tolerant
202869_PM_at	OAS1	2',5'-oligoadenylate synthetase 1, 40/46kDa	9.26E-05	-3.67	Normal down vs > 5 Years Off IS Tolerant
1555210_PM_at	DTWD1	DTW domain containing 1	9.28E-05	-1.34	Normal down vs > 5 Years Off IS Tolerant
222895_PM_s_at	BCL11B	B-cell CLL/lymphoma 11B (zinc finger protein)	9.29E-05	3.03	Normal up vs > 5 Years Off IS Tolerant
224807_PM_at	GRAMD1A	GRAM domain containing 1A	9.30E-05	1.66	Normal up vs > 5 Years Off IS Tolerant
239425_PM_at	DCUN1D5	DCN1, defective in cullin neddylation 1, domain containing 5 (<i>S. cerevisiae</i>)	9.30E-05	1.95	Normal up vs > 5 Years Off IS Tolerant
235478_PM_at	DCLRE1C	DNA cross-link repair 1C	9.33E-05	-2.17	Normal down vs > 5 Years Off IS Tolerant
234319_PM_at	STOX2	storkhead box 2	9.39E-05	-1.46	Normal down vs > 5 Years Off IS Tolerant
218080_PM_x_at	FAF1	Fas (TNFRSF6) associated factor 1	9.45E-05	1.45	Normal up vs > 5 Years Off IS Tolerant
215779_PM_s_at	HIST1H2BG	histone cluster 1, H2bg	9.47E-05	3.81	Normal up vs > 5 Years Off IS Tolerant
212544_PM_at	ZNHIT3	zinc finger, HIT-type containing 3	9.48E-05	1.79	Normal up vs > 5 Years Off IS Tolerant
204841_PM_s_at	EEA1	early endosome antigen 1	9.49E-05	-1.61	Normal down vs > 5 Years Off IS Tolerant
200653_PM_s_at	CALM1	calmodulin 1 (phosphorylase kinase, delta)	9.53E-05	1.33	Normal up vs > 5 Years Off IS Tolerant
212916_PM_at	PHF8	PHD finger protein 8	9.59E-05	1.39	Normal up vs > 5 Years Off IS Tolerant
218107_PM_at	WDR26	WD repeat domain 26	9.59E-05	1.23	Normal up vs > 5 Years Off IS Tolerant
207190_PM_at	ZZEF1	zinc finger, ZZ-type with EF-hand domain 1	9.60E-05	1.95	Normal up vs > 5 Years Off IS Tolerant
232650_PM_at	C12orf65	chromosome 12 open reading frame 65	9.61E-05	1.65	Normal up vs > 5 Years Off IS Tolerant
227541_PM_at	WDR20	WD repeat domain 20	9.61E-05	1.83	Normal up vs > 5 Years Off IS Tolerant

228983_PM_at	---	---	9.64E-05	1.97	Normal up vs > 5 Years Off IS Tolerant
200927_PM_s_at	RAB14	RAB14, member RAS oncogene family	9.64E-05	2.04	Normal up vs > 5 Years Off IS Tolerant
222757_PM_s_at	ZAK	sterile alpha motif and leucine zipper containing kinase AZK	9.65E-05	-2.42	Normal down vs > 5 Years Off IS Tolerant
1559222_PM_at	---	---	9.65E-05	-1.77	Normal down vs > 5 Years Off IS Tolerant
224593_PM_at	ZNF664	zinc finger protein 664	9.70E-05	1.57	Normal up vs > 5 Years Off IS Tolerant
225131_PM_at	ZRANB1	zinc finger, RAN-binding domain containing 1	9.72E-05	2.27	Normal up vs > 5 Years Off IS Tolerant
215267_PM_s_at	SLC8A2	solute carrier family 8 (sodium/calcium exchanger), member 2	9.73E-05	-1.52	Normal down vs > 5 Years Off IS Tolerant
243864_PM_at	CCDC80	coiled-coil domain containing 80	9.74E-05	-1.84	Normal down vs > 5 Years Off IS Tolerant
230214_PM_at	MRVI1	murine retrovirus integration site 1 homolog	9.77E-05	-2.91	Normal down vs > 5 Years Off IS Tolerant
210620_PM_s_at	GTF3C2	general transcription factor IIIC, polypeptide 2, beta 110kDa	9.79E-05	1.74	Normal up vs > 5 Years Off IS Tolerant
230322_PM_at	NFAM1	NFAT activating protein with ITAM motif 1	9.83E-05	-1.69	Normal down vs > 5 Years Off IS Tolerant
218324_PM_s_at	SPATS2	spermatogenesis associated, serine-rich 2	9.91E-05	1.51	Normal up vs > 5 Years Off IS Tolerant
229287_PM_at	PCNX	pecanex homolog (Drosophila)	9.91E-05	1.91	Normal up vs > 5 Years Off IS Tolerant
224243_PM_at	APOA5	apolipoprotein A-V	9.94E-05	-1.40	Normal down vs > 5 Years Off IS Tolerant
237735_PM_at	---	---	9.97E-05	-1.40	Normal down vs > 5 Years Off IS Tolerant
225919_PM_s_at	C9orf72	chromosome 9 open reading frame 72	9.97E-05	-1.75	Normal down vs > 5 Years Off IS Tolerant
222876_PM_s_at	ADAP2	ArfGAP with dual PH domains 2	0.0001	-2.01	Normal down vs > 5 Years Off IS Tolerant
227656_PM_at	C6orf70	chromosome 6 open reading frame 70	0.0001	1.68	Normal up vs > 5 Years Off IS Tolerant
1559993_PM_at	SFXN3	Sideroflexin 3	0.0001	2.64	Normal up vs > 5 Years Off IS Tolerant

220021_PM_at	TMC7	transmembrane channel-like 7	0.0001	-1.32	Normal down vs > 5 Years Off IS Tolerant
207572_PM_at	---	---	0.0001	-1.42	Normal down vs > 5 Years Off IS Tolerant
1569959_PM_at	---	---	0.0001	-1.43	Normal down vs > 5 Years Off IS Tolerant
224784_PM_at	MLLT6	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocate	0.0001	1.73	Normal up vs > 5 Years Off IS Tolerant
34225_PM_at	WHSC2	Wolf-Hirschhorn syndrome candidate 2	0.0001	1.41	Normal up vs > 5 Years Off IS Tolerant
239076_PM_at	SEPT7P2	Septin 7 pseudogene 2	0.0001	-1.92	Normal down vs > 5 Years Off IS Tolerant
209688_PM_s_at	CCDC93	coiled-coil domain containing 93	0.0001	1.59	Normal up vs > 5 Years Off IS Tolerant
224827_PM_at	UBTD2	ubiquitin domain containing 2	0.0001	-2.30	Normal down vs > 5 Years Off IS Tolerant
235908_PM_at	MMP11	matrix metalloproteinase 11 (stromelysin 3)	0.0001	-1.52	Normal down vs > 5 Years Off IS Tolerant
208690_PM_s_at	PDLIM1	PDZ and LIM domain 1	0.0001	2.21	Normal up vs > 5 Years Off IS Tolerant
223358_PM_s_at	PDE7A	phosphodiesterase 7A	0.0001	2.08	Normal up vs > 5 Years Off IS Tolerant
216342_PM_x_at	---	---	0.0001	1.53	Normal up vs > 5 Years Off IS Tolerant
212368_PM_at	ZNF292	zinc finger protein 292	0.0001	1.60	Normal up vs > 5 Years Off IS Tolerant
224060_PM_s_at	DPH5	DPH5 homolog (S. cerevisiae)	0.0001	2.22	Normal up vs > 5 Years Off IS Tolerant
202632_PM_at	DPH1 /// OVCA2	DPH1 homolog (S. cerevisiae) /// ovarian tumor suppressor candidate 2	0.0001	1.51	Normal up vs > 5 Years Off IS Tolerant
217957_PM_at	C16orf80	chromosome 16 open reading frame 80	0.0001	1.73	Normal up vs > 5 Years Off IS Tolerant
207321_PM_s_at	ABCB9	ATP-binding cassette, sub-family B (MDR/TAP), member 9	0.0001	-1.52	Normal down vs > 5 Years Off IS Tolerant
205589_PM_at	MYL3	myosin, light chain 3, alkali; ventricular, skeletal, slow	0.0001	-1.37	Normal down vs > 5 Years Off IS Tolerant
237879_PM_at	---	---	0.0001	-1.57	Normal down vs > 5 Years Off IS Tolerant

229025_PM_s_at	IMMP1L	IMP1 inner mitochondrial membrane peptidase-like (S. cerevisiae)	0.0001	1.96	Normal up vs > 5 Years Off IS Tolerant
228512_PM_at	PTCD3	Pentatricopeptide repeat domain 3	0.0001	1.96	Normal up vs > 5 Years Off IS Tolerant
209726_PM_at	CA11	carbonic anhydrase XI	0.0001	1.51	Normal up vs > 5 Years Off IS Tolerant
242808_PM_at	---	---	0.0001	1.76	Normal up vs > 5 Years Off IS Tolerant
226823_PM_at	PHACTR4	phosphatase and actin regulator 4	0.0001	1.38	Normal up vs > 5 Years Off IS Tolerant
226684_PM_at	ATG2B	ATG2 autophagy related 2 homolog B (S. cerevisiae)	0.0001	1.44	Normal up vs > 5 Years Off IS Tolerant
225421_PM_at	PM20D2	peptidase M20 domain containing 2	0.0001	2.36	Normal up vs > 5 Years Off IS Tolerant
212601_PM_at	ZZEF1	zinc finger, ZZ-type with EF-hand domain 1	0.0001	1.52	Normal up vs > 5 Years Off IS Tolerant
208944_PM_at	TGFBR2	transforming growth factor, beta receptor II (70/80kDa)	0.0001	1.39	Normal up vs > 5 Years Off IS Tolerant
213587_PM_s_at	ATP6V0E2	ATPase, H ⁺ transporting V0 subunit e2	0.0001	2.20	Normal up vs > 5 Years Off IS Tolerant
212931_PM_at	TCF20	transcription factor 20 (AR1)	0.0001	1.40	Normal up vs > 5 Years Off IS Tolerant
1555562_PM_a_at	ZCCHC7	zinc finger, CCHC domain containing 7	0.0001	1.92	Normal up vs > 5 Years Off IS Tolerant
215964_PM_at	---	---	0.0001	-1.44	Normal down vs > 5 Years Off IS Tolerant
217573_PM_at	GRIN2C	glutamate receptor, ionotropic, N-methyl D-aspartate 2C	0.0001	-1.61	Normal down vs > 5 Years Off IS Tolerant
222214_PM_at	---	---	0.0001	1.86	Normal up vs > 5 Years Off IS Tolerant
238515_PM_at	NUDT16	nudix (nucleoside diphosphate linked moiety X)-type motif 16	0.0001	-1.66	Normal down vs > 5 Years Off IS Tolerant
241292_PM_at	---	---	0.0001	-1.43	Normal down vs > 5 Years Off IS Tolerant
243782_PM_at	---	---	0.0001	-1.78	Normal down vs > 5 Years Off IS Tolerant
237426_PM_at	SP100	SP100 nuclear antigen	0.0001	1.79	Normal up vs > 5 Years Off IS Tolerant

224703_PM_at	DCAF5	DDB1 and CUL4 associated factor 5	0.0001	1.47	Normal up vs > 5 Years Off IS Tolerant
227625_PM_s_at	STUB1	STIP1 homology and U-box containing protein 1, E3 ubiquitin protein ligase	0.0001	1.36	Normal up vs > 5 Years Off IS Tolerant
236885_PM_at	MEX3A	mex-3 homolog A (C. elegans)	0.0001	-1.88	Normal down vs > 5 Years Off IS Tolerant
1563513_PM_at	SYTL4	synaptotagmin-like 4	0.0001	-1.54	Normal down vs > 5 Years Off IS Tolerant
201879_PM_at	ARIH1	ariadne homolog, ubiquitin-conjugating enzyme E2 binding protein, 1 (Drosophila)	0.0001	1.96	Normal up vs > 5 Years Off IS Tolerant
237208_PM_at	WDR61	WD repeat domain 61	0.0001	1.80	Normal up vs > 5 Years Off IS Tolerant
227525_PM_at	GLCCI1	glucocorticoid induced transcript 1	0.0001	2.06	Normal up vs > 5 Years Off IS Tolerant
209774_PM_x_at	CXCL2	chemokine (C-X-C motif) ligand 2	0.0001	8.90	Normal up vs > 5 Years Off IS Tolerant
209504_PM_s_at	PLEKHB1	pleckstrin homology domain containing, family B (evectins) member 1	0.0001	1.85	Normal up vs > 5 Years Off IS Tolerant
228113_PM_at	RAB37	RAB37, member RAS oncogene family	0.0001	1.69	Normal up vs > 5 Years Off IS Tolerant
224524_PM_s_at	ASB3 /// GPR75 /// LOC100302652	ankyrin repeat and SOCS box-containing 3 /// G protein-coupled receptor 75 /// GPR75-AS	0.0001	1.72	Normal up vs > 5 Years Off IS Tolerant
1563089_PM_at	LOC100287027	Similar to hCG2038690	0.0001	-1.45	Normal down vs > 5 Years Off IS Tolerant
224217_PM_s_at	FAF1	Fas (TNFRSF6) associated factor 1	0.0001	1.73	Normal up vs > 5 Years Off IS Tolerant
1564248_PM_at	---	---	0.0001	2.93	Normal up vs > 5 Years Off IS Tolerant
220993_PM_s_at	GPR63	G protein-coupled receptor 63	0.0001	-1.81	Normal down vs > 5 Years Off IS Tolerant
226687_PM_at	PRPF40A	PRP40 pre-mRNA processing factor 40 homolog A (S. cerevisiae)	0.0001	1.58	Normal up vs > 5 Years Off IS Tolerant
240591_PM_at	---	---	0.0001	-1.44	Normal down vs > 5 Years Off IS Tolerant
238480_PM_at	TTC39C	tetratricopeptide repeat domain 39C	0.0001	1.72	Normal up vs > 5 Years Off IS Tolerant
211747_PM_s_at	LSM5	LSM5 homolog, U6 small nuclear RNA associated (S. cerevisiae)	0.0001	1.77	Normal up vs > 5 Years Off IS Tolerant

225615_PM_at	IFFO2	intermediate filament family orphan 2	0.0001	1.80	Normal up vs > 5 Years Off IS Tolerant
202548_PM_s_at	ARHGEF7	Rho guanine nucleotide exchange factor (GEF) 7	0.0001	1.45	Normal up vs > 5 Years Off IS Tolerant
219376_PM_at	ZNF322A /// ZNF322B	zinc finger protein 322A /// zinc finger protein 322B	0.0001	-1.58	Normal down vs > 5 Years Off IS Tolerant
1555187_PM_at	---	---	0.0001	-2.16	Normal down vs > 5 Years Off IS Tolerant
1552584_PM_at	IL12RB1	interleukin 12 receptor, beta 1	0.0001	1.58	Normal up vs > 5 Years Off IS Tolerant
237702_PM_at	RBM45	RNA binding motif protein 45	0.0001	-1.44	Normal down vs > 5 Years Off IS Tolerant
228702_PM_at	FLJ43663	hypothetical LOC378805	0.0001	2.40	Normal up vs > 5 Years Off IS Tolerant
225473_PM_at	C20orf117	chromosome 20 open reading frame 117	0.0001	-1.41	Normal down vs > 5 Years Off IS Tolerant
209259_PM_s_at	SMC3	structural maintenance of chromosomes 3	0.0001	1.95	Normal up vs > 5 Years Off IS Tolerant
220214_PM_at	ZNF215	zinc finger protein 215	0.0001	-1.39	Normal down vs > 5 Years Off IS Tolerant
220606_PM_s_at	C17orf48	chromosome 17 open reading frame 48	0.0001	2.44	Normal up vs > 5 Years Off IS Tolerant
237286_PM_at	INTS9	Integrator complex subunit 9	0.0001	-1.60	Normal down vs > 5 Years Off IS Tolerant
218754_PM_at	NOL9	nucleolar protein 9	0.0001	1.60	Normal up vs > 5 Years Off IS Tolerant
239673_PM_at	---	---	0.0001	3.15	Normal up vs > 5 Years Off IS Tolerant
217965_PM_s_at	SAP30BP	SAP30 binding protein	0.0001	1.76	Normal up vs > 5 Years Off IS Tolerant
35685_PM_at	RING1	ring finger protein 1	0.0001	1.38	Normal up vs > 5 Years Off IS Tolerant
230636_PM_s_at	KLF9	Kruppel-like factor 9	0.0001	1.67	Normal up vs > 5 Years Off IS Tolerant
204718_PM_at	EPHB6	EPH receptor B6	0.0001	1.69	Normal up vs > 5 Years Off IS Tolerant
219408_PM_at	PRMT7	protein arginine methyltransferase 7	0.0001	1.60	Normal up vs > 5 Years Off IS Tolerant

1553243_PM_at	ITIH5	inter-alpha (globulin) inhibitor H5	0.0001	-1.38	Normal down vs > 5 Years Off IS Tolerant
205324_PM_s_at	FTSJ1	FtsJ homolog 1 (E. coli)	0.0001	1.71	Normal up vs > 5 Years Off IS Tolerant
230004_PM_at	USP24	ubiquitin specific peptidase 24	0.0001	1.79	Normal up vs > 5 Years Off IS Tolerant
1553971_PM_a_at	GATS	GATS, stromal antigen 3 opposite strand	0.0001	1.82	Normal up vs > 5 Years Off IS Tolerant
229264_PM_at	---	---	0.0001	1.94	Normal up vs > 5 Years Off IS Tolerant
240948_PM_at	---	---	0.0001	-2.01	Normal down vs > 5 Years Off IS Tolerant
225992_PM_at	MLLT10	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocate	0.0001	1.46	Normal up vs > 5 Years Off IS Tolerant
201528_PM_at	RPA1	replication protein A1, 70kDa	0.0001	1.69	Normal up vs > 5 Years Off IS Tolerant
213954_PM_at	FAM169A	family with sequence similarity 169, member A	0.0001	2.20	Normal up vs > 5 Years Off IS Tolerant
217742_PM_s_at	WAC	WW domain containing adaptor with coiled-coil	0.0001	1.21	Normal up vs > 5 Years Off IS Tolerant
223862_PM_at	GHRL	ghrelin/obestatin prepropeptide	0.0001	-1.59	Normal down vs > 5 Years Off IS Tolerant
1560634_PM_a_at	---	---	0.0001	-1.36	Normal down vs > 5 Years Off IS Tolerant
238842_PM_at	---	---	0.0001	1.79	Normal up vs > 5 Years Off IS Tolerant
237765_PM_at	SLC25A47	solute carrier family 25, member 47	0.0001	-1.53	Normal down vs > 5 Years Off IS Tolerant
37860_PM_at	ZNF337	zinc finger protein 337	0.0001	1.65	Normal up vs > 5 Years Off IS Tolerant
228079_PM_at	C3orf58	chromosome 3 open reading frame 58	0.0001	-1.39	Normal down vs > 5 Years Off IS Tolerant
227973_PM_at	C2orf69	chromosome 2 open reading frame 69	0.0001	2.03	Normal up vs > 5 Years Off IS Tolerant
213113_PM_s_at	SLC43A3	solute carrier family 43, member 3	0.0001	-1.87	Normal down vs > 5 Years Off IS Tolerant
212623_PM_at	TMEM41B	transmembrane protein 41B	0.0001	1.92	Normal up vs > 5 Years Off IS Tolerant

239792_PM_at	LOC440288	similar to FLJ16518 protein	0.0001	2.22	Normal up vs > 5 Years Off IS Tolerant
201499_PM_s_at	USP7	ubiquitin specific peptidase 7 (herpes virus-associated)	0.0001	1.31	Normal up vs > 5 Years Off IS Tolerant
224163_PM_s_at	DMAP1	DNA methyltransferase 1 associated protein 1	0.0001	1.88	Normal up vs > 5 Years Off IS Tolerant
205320_PM_at	APC2	adenomatosis polyposis coli 2	0.0001	-1.34	Normal down vs > 5 Years Off IS Tolerant
219637_PM_at	ARMC9	armadillo repeat containing 9	0.0001	-1.40	Normal down vs > 5 Years Off IS Tolerant
229894_PM_s_at	ISY1 /// RAB43	ISY1 splicing factor homolog (S. cerevisiae) /// RAB43, member RAS oncogene family	0.0001	1.91	Normal up vs > 5 Years Off IS Tolerant
221536_PM_s_at	LSG1	large subunit GTPase 1 homolog (S. cerevisiae)	0.0001	1.84	Normal up vs > 5 Years Off IS Tolerant
202804_PM_at	ABCC1	ATP-binding cassette, sub-family C (CFTR/MRP), member 1	0.0001	1.35	Normal up vs > 5 Years Off IS Tolerant
203778_PM_at	MANBA	mannosidase, beta A, lysosomal	0.0001	-1.43	Normal down vs > 5 Years Off IS Tolerant
218244_PM_at	NOL8	nucleolar protein 8	0.0001	1.53	Normal up vs > 5 Years Off IS Tolerant
239105_PM_at	---	---	0.0001	2.04	Normal up vs > 5 Years Off IS Tolerant
240150_PM_at	---	---	0.0001	-1.42	Normal down vs > 5 Years Off IS Tolerant
230580_PM_at	---	---	0.0001	1.60	Normal up vs > 5 Years Off IS Tolerant
1552295_PM_a_at	SLC39A13	solute carrier family 39 (zinc transporter), member 13	0.0001	1.50	Normal up vs > 5 Years Off IS Tolerant
1557605_PM_a_at	LOC401312	hypothetical LOC401312	0.0001	-1.56	Normal down vs > 5 Years Off IS Tolerant
205079_PM_s_at	MPDZ	multiple PDZ domain protein	0.0001	-1.78	Normal down vs > 5 Years Off IS Tolerant
202315_PM_s_at	BCR	breakpoint cluster region	0.0001	2.33	Normal up vs > 5 Years Off IS Tolerant
236422_PM_at	---	---	0.0001	-3.04	Normal down vs > 5 Years Off IS Tolerant
208820_PM_at	PTK2	PTK2 protein tyrosine kinase 2	0.0001	1.90	Normal up vs > 5 Years Off IS Tolerant

212947_PM_at	SLC9A8	solute carrier family 9 (sodium/hydrogen exchanger), member 8	0.0001	2.02	Normal up vs > 5 Years Off IS Tolerant
242072_PM_at	---	---	0.0001	-1.35	Normal down vs > 5 Years Off IS Tolerant
208883_PM_at	UBR5	ubiquitin protein ligase E3 component n-recognin 5	0.0001	1.82	Normal up vs > 5 Years Off IS Tolerant
1560946_PM_at	---	---	0.0001	-1.51	Normal down vs > 5 Years Off IS Tolerant
225657_PM_at	LOC152217	hypothetical LOC152217	0.0001	1.53	Normal up vs > 5 Years Off IS Tolerant
226436_PM_at	RASSF4	Ras association (RalGDS/AF-6) domain family member 4	0.0001	-1.96	Normal down vs > 5 Years Off IS Tolerant
225956_PM_at	C5orf41	chromosome 5 open reading frame 41	0.0001	1.66	Normal up vs > 5 Years Off IS Tolerant
218381_PM_s_at	U2AF2	U2 small nuclear RNA auxiliary factor 2	0.0001	1.38	Normal up vs > 5 Years Off IS Tolerant
236458_PM_at	---	---	0.0001	1.76	Normal up vs > 5 Years Off IS Tolerant
201018_PM_at	EIF1AX	eukaryotic translation initiation factor 1A, X-linked	0.0001	1.96	Normal up vs > 5 Years Off IS Tolerant
223373_PM_s_at	PLA2G12A	phospholipase A2, group X1IA	0.0001	1.94	Normal up vs > 5 Years Off IS Tolerant
223385_PM_at	CYP2S1	cytochrome P450, family 2, subfamily S, polypeptide 1	0.0001	-1.49	Normal down vs > 5 Years Off IS Tolerant
223818_PM_s_at	RSF1	remodeling and spacing factor 1	0.0001	1.85	Normal up vs > 5 Years Off IS Tolerant
226811_PM_at	FAM46C	family with sequence similarity 46, member C	0.0001	4.60	Normal up vs > 5 Years Off IS Tolerant
205178_PM_s_at	RBBP6	retinoblastoma binding protein 6	0.0001	1.53	Normal up vs > 5 Years Off IS Tolerant
244156_PM_at	---	---	0.0001	-1.37	Normal down vs > 5 Years Off IS Tolerant
1566748_PM_at	---	---	0.0001	-1.43	Normal down vs > 5 Years Off IS Tolerant
222297_PM_x_at	---	---	0.0001	1.23	Normal up vs > 5 Years Off IS Tolerant
1560990_PM_a_at	---	---	0.0001	-1.45	Normal down vs > 5 Years Off IS Tolerant

203263_PM_s_at	ARHGEF9	Cdc42 guanine nucleotide exchange factor (GEF) 9	0.0001	1.78	Normal up vs > 5 Years Off IS Tolerant
212758_PM_s_at	ZEB1	zinc finger E-box binding homeobox 1	0.0001	2.04	Normal up vs > 5 Years Off IS Tolerant
244487_PM_at	NCK1	NCK adaptor protein 1	0.0001	2.52	Normal up vs > 5 Years Off IS Tolerant
229357_PM_at	ADAMTS5	ADAM metalloproteinase with thrombospondin type 1 motif, 5	0.0001	-1.68	Normal down vs > 5 Years Off IS Tolerant
241762_PM_at	---	---	0.0001	2.91	Normal up vs > 5 Years Off IS Tolerant
225775_PM_at	TSPAN33	tetraspanin 33	0.0001	2.03	Normal up vs > 5 Years Off IS Tolerant
204328_PM_at	TMC6	transmembrane channel-like 6	0.0001	1.49	Normal up vs > 5 Years Off IS Tolerant
231038_PM_s_at	---	---	0.0001	-1.84	Normal down vs > 5 Years Off IS Tolerant
205708_PM_s_at	TRPM2	transient receptor potential cation channel, subfamily M, member 2	0.0001	-1.67	Normal down vs > 5 Years Off IS Tolerant
206725_PM_x_at	BMP1	bone morphogenetic protein 1	0.0001	-1.64	Normal down vs > 5 Years Off IS Tolerant
232693_PM_s_at	FBXO16 /// ZNF395	F-box protein 16 /// zinc finger protein 395	0.0001	1.87	Normal up vs > 5 Years Off IS Tolerant
230753_PM_at	PATL2	protein associated with topoisomerase II homolog 2 (yeast)	0.0001	2.26	Normal up vs > 5 Years Off IS Tolerant
240500_PM_at	LOC100132369	Hypothetical LOC100132369	0.0001	-1.35	Normal down vs > 5 Years Off IS Tolerant
210755_PM_at	HGF	hepatocyte growth factor (hepapoietin A; scatter factor)	0.0001	-1.83	Normal down vs > 5 Years Off IS Tolerant
224711_PM_at	YY1	YY1 transcription factor	0.0001	1.51	Normal up vs > 5 Years Off IS Tolerant
203410_PM_at	AP3M2	adaptor-related protein complex 3, mu 2 subunit	0.0001	2.11	Normal up vs > 5 Years Off IS Tolerant
208661_PM_s_at	TTC3	tetratricopeptide repeat domain 3	0.0001	1.47	Normal up vs > 5 Years Off IS Tolerant
205361_PM_s_at	PFDN4	prefoldin subunit 4	0.0001	1.64	Normal up vs > 5 Years Off IS Tolerant
216042_PM_at	TNFRSF25	tumor necrosis factor receptor superfamily, member 25	0.0001	1.73	Normal up vs > 5 Years Off IS Tolerant

207842_PM_s_at	CASC3	cancer susceptibility candidate 3	0.0001	1.40	Normal up vs > 5 Years Off IS Tolerant
241637_PM_at	---	---	0.0001	-1.64	Normal down vs > 5 Years Off IS Tolerant
224673_PM_at	LENG8	leukocyte receptor cluster (LRC) member 8	0.0001	1.82	Normal up vs > 5 Years Off IS Tolerant
229394_PM_s_at	GRLF1	glucocorticoid receptor DNA binding factor 1	0.0001	1.75	Normal up vs > 5 Years Off IS Tolerant
244555_PM_at	---	---	0.0001	2.05	Normal up vs > 5 Years Off IS Tolerant
215954_PM_s_at	C19orf29	chromosome 19 open reading frame 29	0.0001	1.47	Normal up vs > 5 Years Off IS Tolerant
226310_PM_at	RICTOR	RPTOR independent companion of MTOR, complex 2	0.0001	2.46	Normal up vs > 5 Years Off IS Tolerant
240990_PM_at	---	---	0.0001	2.44	Normal up vs > 5 Years Off IS Tolerant
200031_PM_s_at	RPS11	ribosomal protein S11	0.0001	1.13	Normal up vs > 5 Years Off IS Tolerant
203646_PM_at	FDX1	ferredoxin 1	0.0001	1.75	Normal up vs > 5 Years Off IS Tolerant
1564504_PM_at	ACCN5	amiloride-sensitive cation channel 5, intestinal	0.0001	-1.65	Normal down vs > 5 Years Off IS Tolerant
202838_PM_at	FUCA1	fucosidase, alpha-L- 1, tissue	0.0001	-1.84	Normal down vs > 5 Years Off IS Tolerant
238682_PM_at	CCDC96	coiled-coil domain containing 96	0.0001	1.62	Normal up vs > 5 Years Off IS Tolerant
212828_PM_at	SYNJ2	synaptojanin 2	0.0001	2.07	Normal up vs > 5 Years Off IS Tolerant
1562812_PM_at	C10orf44	Chromosome 10 open reading frame 44	0.0001	-1.63	Normal down vs > 5 Years Off IS Tolerant
223514_PM_at	CARD11	caspase recruitment domain family, member 11	0.0001	1.51	Normal up vs > 5 Years Off IS Tolerant
207856_PM_s_at	LOC150776 /// SMPD4	sphingomyelin phosphodiesterase 4, neutral membrane pseudogene /// sphingomyelin phosph	0.0001	1.78	Normal up vs > 5 Years Off IS Tolerant
223340_PM_at	ATL1	atlastin GTPase 1	0.0001	1.90	Normal up vs > 5 Years Off IS Tolerant
209326_PM_at	SLC35A2	solute carrier family 35 (UDP-galactose transporter), member A2	0.0001	1.69	Normal up vs > 5 Years Off IS Tolerant

218184_PM_at	TULP4	tubby like protein 4	0.0001	1.63	Normal up vs > 5 Years Off IS Tolerant
209889_PM_at	SEC31B	SEC31 homolog B (S. cerevisiae)	0.0001	1.69	Normal up vs > 5 Years Off IS Tolerant
221500_PM_s_at	STX16	syntaxin 16	0.0002	1.36	Normal up vs > 5 Years Off IS Tolerant
219387_PM_at	CCDC88A	coiled-coil domain containing 88A	0.0002	-2.19	Normal down vs > 5 Years Off IS Tolerant
218647_PM_s_at	YRDC	yrdC domain containing (E. coli)	0.0002	2.02	Normal up vs > 5 Years Off IS Tolerant
228052_PM_x_at	TCF3	transcription factor 3 (E2A immunoglobulin enhancer binding factors E12/E47)	0.0002	-1.38	Normal down vs > 5 Years Off IS Tolerant
210249_PM_s_at	NCOA1	nuclear receptor coactivator 1	0.0002	1.36	Normal up vs > 5 Years Off IS Tolerant
218398_PM_at	MRPS30	mitochondrial ribosomal protein S30	0.0002	1.99	Normal up vs > 5 Years Off IS Tolerant
1561041_PM_at	TNRC6C	trinucleotide repeat containing 6C	0.0002	1.61	Normal up vs > 5 Years Off IS Tolerant
204036_PM_at	LPAR1	lysophosphatidic acid receptor 1	0.0002	-2.70	Normal down vs > 5 Years Off IS Tolerant
209569_PM_x_at	D4S234E	DNA segment on chromosome 4 (unique) 234 expressed sequence	0.0002	2.32	Normal up vs > 5 Years Off IS Tolerant
225505_PM_s_at	FAM113A	family with sequence similarity 113, member A	0.0002	1.57	Normal up vs > 5 Years Off IS Tolerant
239196_PM_at	ANKRD22	ankyrin repeat domain 22	0.0002	-1.66	Normal down vs > 5 Years Off IS Tolerant
236280_PM_at	---	---	0.0002	2.25	Normal up vs > 5 Years Off IS Tolerant
218278_PM_at	WDR74	WD repeat domain 74	0.0002	1.50	Normal up vs > 5 Years Off IS Tolerant
224627_PM_at	GBA2	glucosidase, beta (bile acid) 2	0.0002	-1.54	Normal down vs > 5 Years Off IS Tolerant
1558608_PM_a_at	PAPPA	pregnancy-associated plasma protein A, pappalysin 1	0.0002	-1.37	Normal down vs > 5 Years Off IS Tolerant
1565306_PM_a_at	SLC8A1	solute carrier family 8 (sodium/calcium exchanger), member 1	0.0002	-1.77	Normal down vs > 5 Years Off IS Tolerant
238468_PM_at	TNRC6B	trinucleotide repeat containing 6B	0.0002	1.68	Normal up vs > 5 Years Off IS Tolerant

206484_PM_s_at	XPNPEP2	X-prolyl aminopeptidase (aminopeptidase P) 2, membrane-bound	0.0002	-1.40	Normal down vs > 5 Years Off IS Tolerant
227085_PM_at	H2AFV	H2A histone family, member V	0.0002	1.81	Normal up vs > 5 Years Off IS Tolerant
1553328_PM_a_at	SLC18A2	solute carrier family 18 (vesicular monoamine), member 2	0.0002	-1.51	Normal down vs > 5 Years Off IS Tolerant
208669_PM_s_at	EID1	EP300 interacting inhibitor of differentiation 1	0.0002	1.73	Normal up vs > 5 Years Off IS Tolerant
221759_PM_at	G6PC3	glucose 6 phosphatase, catalytic, 3	0.0002	-1.49	Normal down vs > 5 Years Off IS Tolerant
229404_PM_at	TWIST2	twist homolog 2 (Drosophila)	0.0002	-1.40	Normal down vs > 5 Years Off IS Tolerant
229066_PM_at	---	---	0.0002	-1.87	Normal down vs > 5 Years Off IS Tolerant
210474_PM_s_at	CDK11A /// CDK11B	cyclin-dependent kinase 11A /// cyclin-dependent kinase 11B	0.0002	1.81	Normal up vs > 5 Years Off IS Tolerant
213347_PM_x_at	RPS4X	ribosomal protein S4, X-linked	0.0002	1.25	Normal up vs > 5 Years Off IS Tolerant
216977_PM_x_at	SNRPA1	small nuclear ribonucleoprotein polypeptide A'	0.0002	1.45	Normal up vs > 5 Years Off IS Tolerant
210471_PM_s_at	KCNAB1	potassium voltage-gated channel, shaker-related subfamily, beta member 1	0.0002	-1.66	Normal down vs > 5 Years Off IS Tolerant
227325_PM_at	PRR24	proline rich 24	0.0002	1.87	Normal up vs > 5 Years Off IS Tolerant
237237_PM_at	---	---	0.0002	-1.53	Normal down vs > 5 Years Off IS Tolerant
203288_PM_at	KIAA0355	KIAA0355	0.0002	1.94	Normal up vs > 5 Years Off IS Tolerant
209158_PM_s_at	CYTH2	cytohesin 2	0.0002	1.67	Normal up vs > 5 Years Off IS Tolerant
218149_PM_s_at	ZNF395	zinc finger protein 395	0.0002	1.72	Normal up vs > 5 Years Off IS Tolerant
34221_PM_at	HMGXB3	HMG box domain containing 3	0.0002	1.34	Normal up vs > 5 Years Off IS Tolerant
1561658_PM_at	---	---	0.0002	-1.40	Normal down vs > 5 Years Off IS Tolerant
204269_PM_at	PIM2	pim-2 oncogene	0.0002	1.89	Normal up vs > 5 Years Off IS Tolerant
1554539_PM_a_at	RHOF	ras homolog gene family, member F (in filopodia)	0.0002	1.95	Normal up vs > 5 Years Off IS Tolerant
206095_PM_s_at	SRSF10	serine/arginine-rich splicing factor 10	0.0002	1.51	Normal up vs > 5 Years Off IS Tolerant

224818_PM_at	SORT1	sortilin 1	0.0002	-1.83	Normal down vs > 5 Years Off IS Tolerant
1555765_PM_a_at	GNG4	guanine nucleotide binding protein (G protein), gamma 4	0.0002	-1.44	Normal down vs > 5 Years Off IS Tolerant
227356_PM_at	---	---	0.0002	1.81	Normal up vs > 5 Years Off IS Tolerant
201230_PM_s_at	ARIH2	ariadne homolog 2 (Drosophila)	0.0002	1.39	Normal up vs > 5 Years Off IS Tolerant
205559_PM_s_at	PCSK5	proprotein convertase subtilisin/kexin type 5	0.0002	1.64	Normal up vs > 5 Years Off IS Tolerant
223584_PM_s_at	KBTD2	kelch repeat and BTB (POZ) domain containing 2	0.0002	3.27	Normal up vs > 5 Years Off IS Tolerant
202584_PM_at	NFX1	nuclear transcription factor, X-box binding 1	0.0002	1.59	Normal up vs > 5 Years Off IS Tolerant
228580_PM_at	HTRA3	HtrA serine peptidase 3	0.0002	-1.54	Normal down vs > 5 Years Off IS Tolerant
202652_PM_at	APBB1	amyloid beta (A4) precursor protein-binding, family B, member 1 (Fe65)	0.0002	1.45	Normal up vs > 5 Years Off IS Tolerant
202697_PM_at	NUDT21	nudix (nucleoside diphosphate linked moiety X)-type motif 21	0.0002	2.03	Normal up vs > 5 Years Off IS Tolerant
217336_PM_at	RPS10 /// RPS10P7	ribosomal protein S10 /// ribosomal protein S10 pseudogene 7	0.0002	1.74	Normal up vs > 5 Years Off IS Tolerant
1553566_PM_at	C12orf53	chromosome 12 open reading frame 53	0.0002	-1.47	Normal down vs > 5 Years Off IS Tolerant
224871_PM_at	TPRG1L	tumor protein p63 regulated 1-like	0.0002	1.95	Normal up vs > 5 Years Off IS Tolerant
226838_PM_at	TTC32	tetratricopeptide repeat domain 32	0.0002	1.72	Normal up vs > 5 Years Off IS Tolerant
227551_PM_at	FAM108B1	family with sequence similarity 108, member B1	0.0002	1.69	Normal up vs > 5 Years Off IS Tolerant
238959_PM_at	LARP4	La ribonucleoprotein domain family, member 4	0.0002	-1.54	Normal down vs > 5 Years Off IS Tolerant
221604_PM_s_at	PEX16	peroxisomal biogenesis factor 16	0.0002	1.77	Normal up vs > 5 Years Off IS Tolerant
242021_PM_at	XBP1	X-box binding protein 1	0.0002	-1.95	Normal down vs > 5 Years Off IS Tolerant
244431_PM_at	KILLIN	killin protein	0.0002	-1.51	Normal down vs > 5 Years Off IS Tolerant
239783_PM_at	---	---	0.0002	1.74	Normal up vs > 5 Years Off IS Tolerant
242456_PM_at	MRE11A	MRE11 meiotic recombination 11 homolog A (S. cerevisiae)	0.0002	1.44	Normal up vs > 5 Years Off IS Tolerant
238063_PM_at	TMEM154	transmembrane protein 154	0.0002	-1.64	Normal down vs > 5 Years Off IS Tolerant
1569393_PM_at	MGC15885	hypothetical protein MGC15885	0.0002	-1.54	Normal down vs > 5 Years Off IS Tolerant
1561140_PM_at	---	---	0.0002	-1.35	Normal down vs > 5 Years Off IS Tolerant
228549_PM_at	---	---	0.0002	2.20	Normal up vs > 5 Years Off IS Tolerant

1558295_PM_a_at	PPFIA2	protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein	0.0002	-1.68	Normal down vs > 5 Years Off IS Tolerant
1561477_PM_at	CCDC144A	coiled-coil domain containing 144A	0.0002	-2.17	Normal down vs > 5 Years Off IS Tolerant
223729_PM_at	CECR2	cat eye syndrome chromosome region, candidate 2	0.0002	-1.53	Normal down vs > 5 Years Off IS Tolerant
1569525_PM_s_at	---	---	0.0002	-1.72	Normal down vs > 5 Years Off IS Tolerant
222256_PM_s_at	JMJD7	jumonji domain containing 7	0.0002	1.75	Normal up vs > 5 Years Off IS Tolerant
226883_PM_at	---	---	0.0002	1.58	Normal up vs > 5 Years Off IS Tolerant
206433_PM_s_at	SPOCK3	sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 3	0.0002	-1.73	Normal down vs > 5 Years Off IS Tolerant
203624_PM_at	AKAP17A	A kinase (PRKA) anchor protein 17A	0.0002	1.31	Normal up vs > 5 Years Off IS Tolerant
230926_PM_s_at	ODF2L	outer dense fiber of sperm tails 2-like	0.0002	2.07	Normal up vs > 5 Years Off IS Tolerant
213166_PM_x_at	MZT2A	mitotic spindle organizing protein 2A	0.0002	1.71	Normal up vs > 5 Years Off IS Tolerant
204974_PM_at	RAB3A	RAB3A, member RAS oncogene family	0.0002	-1.51	Normal down vs > 5 Years Off IS Tolerant
35820_PM_at	GM2A	GM2 ganglioside activator	0.0002	-1.96	Normal down vs > 5 Years Off IS Tolerant
222977_PM_at	SURF4	surfeit 4	0.0002	1.67	Normal up vs > 5 Years Off IS Tolerant
230599_PM_at	---	---	0.0002	2.47	Normal up vs > 5 Years Off IS Tolerant
236809_PM_at	---	---	0.0002	-2.45	Normal down vs > 5 Years Off IS Tolerant
201837_PM_s_at	SUPT7L	suppressor of Ty 7 (S. cerevisiae)-like	0.0002	1.43	Normal up vs > 5 Years Off IS Tolerant
1568609_PM_s_at	FAM91A2 /// FLJ39739 /// LOC100286793 /// LOC728855 /// LOC728875	family with sequence similarity 91, member A2 /// hypothetical FLJ39739 /// hypotheticala	0.0002	1.89	Normal up vs > 5 Years Off IS Tolerant
1565875_PM_at	---	---	0.0002	1.46	Normal up vs > 5 Years Off IS Tolerant
221377_PM_s_at	RBPJL	recombination signal binding protein for immunoglobulin kappa J region-like	0.0002	-1.43	Normal down vs > 5 Years Off IS Tolerant
219151_PM_s_at	RABL2A /// RABL2B	RAB, member of RAS oncogene family-like 2A /// RAB, member of RAS oncogene family-like	0.0002	1.90	Normal up vs > 5 Years Off IS Tolerant
217224_PM_at	---	---	0.0002	-1.42	Normal down vs > 5 Years Off IS Tolerant
244581_PM_at	---	---	0.0002	2.07	Normal up vs > 5 Years Off IS Tolerant
229806_PM_at	QRICH1	Glutamine-rich 1	0.0002	1.67	Normal up vs > 5 Years Off IS Tolerant
217915_PM_s_at	RSL24D1	ribosomal L24 domain containing 1	0.0002	1.48	Normal up vs > 5 Years Off IS Tolerant

226234_PM_at	GDF11	growth differentiation factor 11	0.0002	1.47	Normal up vs > 5 Years Off IS Tolerant
241432_PM_at	---	---	0.0002	-1.49	Normal down vs > 5 Years Off IS Tolerant
231203_PM_at	LOC100505478	hypothetical protein LOC100505478	0.0002	-1.38	Normal down vs > 5 Years Off IS Tolerant
212536_PM_at	ATP11B	ATPase, class VI, type 11B	0.0002	1.53	Normal up vs > 5 Years Off IS Tolerant
1569331_PM_at	---	---	0.0002	-1.28	Normal down vs > 5 Years Off IS Tolerant
218265_PM_at	SECISBP2	SECIS binding protein 2	0.0002	1.45	Normal up vs > 5 Years Off IS Tolerant
1565407_PM_at	LHX9	LIM homeobox 9	0.0002	-1.38	Normal down vs > 5 Years Off IS Tolerant
1557025_PM_a_at	---	---	0.0002	-1.54	Normal down vs > 5 Years Off IS Tolerant
223894_PM_s_at	AKTIP	AKT interacting protein	0.0002	1.98	Normal up vs > 5 Years Off IS Tolerant
240228_PM_at	CSMD3	CUB and Sushi multiple domains 3	0.0002	-1.41	Normal down vs > 5 Years Off IS Tolerant
201369_PM_s_at	ZFP36L2	zinc finger protein 36, C3H type-like 2	0.0002	1.63	Normal up vs > 5 Years Off IS Tolerant
1558345_PM_a_at	LOC439911	hypothetical LOC439911	0.0002	2.32	Normal up vs > 5 Years Off IS Tolerant
227988_PM_s_at	VPS13A	vacuolar protein sorting 13 homolog A (<i>S. cerevisiae</i>)	0.0002	2.40	Normal up vs > 5 Years Off IS Tolerant
240260_PM_at	---	---	0.0002	2.43	Normal up vs > 5 Years Off IS Tolerant
217034_PM_at	---	---	0.0002	-1.34	Normal down vs > 5 Years Off IS Tolerant
227019_PM_at	C1orf226	chromosome 1 open reading frame 226	0.0002	-1.39	Normal down vs > 5 Years Off IS Tolerant
1558765_PM_a_at	---	---	0.0002	-1.54	Normal down vs > 5 Years Off IS Tolerant
240998_PM_at	---	---	0.0002	-1.42	Normal down vs > 5 Years Off IS Tolerant
1568920_PM_at	---	---	0.0002	-2.12	Normal down vs > 5 Years Off IS Tolerant
237172_PM_at	---	---	0.0002	1.72	Normal up vs > 5 Years Off IS Tolerant
226641_PM_at	ANKRD44	ankyrin repeat domain 44	0.0002	1.41	Normal up vs > 5 Years Off IS Tolerant
244843_PM_x_at	---	---	0.0002	-1.43	Normal down vs > 5 Years Off IS Tolerant
223475_PM_at	CRISPLD1	cysteine-rich secretory protein LCCL domain containing 1	0.0002	-1.65	Normal down vs > 5 Years Off IS Tolerant
220216_PM_at	C8orf44	chromosome 8 open reading frame 44	0.0002	-1.45	Normal down vs > 5 Years Off IS Tolerant
218510_PM_x_at	FAM134B	family with sequence similarity 134, member B	0.0002	2.68	Normal up vs > 5 Years Off IS Tolerant

231969_PM_at	STOX2	storkhead box 2	0.0002	-1.54	Normal down vs > 5 Years Off IS Tolerant
1556589_PM_at	---	---	0.0002	-1.94	Normal down vs > 5 Years Off IS Tolerant
206337_PM_at	CCR7	chemokine (C-C motif) receptor 7	0.0002	3.81	Normal up vs > 5 Years Off IS Tolerant
208262_PM_x_at	MEFV	Mediterranean fever	0.0002	-2.99	Normal down vs > 5 Years Off IS Tolerant
212454_PM_x_at	HNRPDL	heterogeneous nuclear ribonucleoprotein D-like	0.0002	1.59	Normal up vs > 5 Years Off IS Tolerant
221083_PM_at	KCNQ4	potassium voltage-gated channel, KQT-like subfamily, member 4	0.0002	-1.37	Normal down vs > 5 Years Off IS Tolerant
218081_PM_at	C20orf27	chromosome 20 open reading frame 27	0.0002	-1.73	Normal down vs > 5 Years Off IS Tolerant
202765_PM_s_at	FBN1	fibrillin 1	0.0002	-1.40	Normal down vs > 5 Years Off IS Tolerant
228765_PM_at	GTF2IRD2	GTF2I repeat domain containing 2	0.0002	1.73	Normal up vs > 5 Years Off IS Tolerant
207324_PM_s_at	DSC1	desmocollin 1	0.0002	2.10	Normal up vs > 5 Years Off IS Tolerant
211260_PM_at	BMP7	bone morphogenetic protein 7	0.0002	-1.76	Normal down vs > 5 Years Off IS Tolerant
207839_PM_s_at	TMEM8B	transmembrane protein 8B	0.0002	1.45	Normal up vs > 5 Years Off IS Tolerant
222785_PM_x_at	C11orf1	chromosome 11 open reading frame 1	0.0002	2.56	Normal up vs > 5 Years Off IS Tolerant
201953_PM_at	CIB1	calcium and integrin binding 1 (calmyrin)	0.0002	1.48	Normal up vs > 5 Years Off IS Tolerant
203080_PM_s_at	BAZ2B	bromodomain adjacent to zinc finger domain, 2B	0.0002	-1.61	Normal down vs > 5 Years Off IS Tolerant
208117_PM_s_at	LAS1L	LAS1-like (<i>S. cerevisiae</i>)	0.0002	1.30	Normal up vs > 5 Years Off IS Tolerant
238057_PM_at	USP45	ubiquitin specific peptidase 45	0.0002	1.78	Normal up vs > 5 Years Off IS Tolerant
237770_PM_at	---	---	0.0002	-1.94	Normal down vs > 5 Years Off IS Tolerant
1559579_PM_at	LOC283688	hypothetical LOC283688	0.0002	-1.45	Normal down vs > 5 Years Off IS Tolerant
212614_PM_at	ARID5B	AT rich interactive domain 5B (MRF1-like)	0.0002	2.03	Normal up vs > 5 Years Off IS Tolerant
203184_PM_at	FBN2	fibrillin 2	0.0002	-2.37	Normal down vs > 5 Years Off IS Tolerant
204646_PM_at	DPYD	dihydropyrimidine dehydrogenase	0.0002	-1.65	Normal down vs > 5 Years Off IS Tolerant
230617_PM_at	LOC100507675	hypothetical LOC100507675	0.0002	-1.45	Normal down vs > 5 Years Off IS Tolerant
241227_PM_at	---	---	0.0002	-1.99	Normal down vs > 5 Years Off IS Tolerant

1555378_PM_at	DBF4B	DBF4 homolog B (<i>S. cerevisiae</i>)	0.0002	-1.35	Normal down vs > 5 Years Off IS Tolerant
225544_PM_at	TBX3	T-box 3	0.0002	-1.57	Normal down vs > 5 Years Off IS Tolerant
204038_PM_s_at	LPAR1	lysophosphatidic acid receptor 1	0.0002	-1.46	Normal down vs > 5 Years Off IS Tolerant
229686_PM_at	P2RY8	purinergic receptor P2Y, G-protein coupled, 8	0.0002	1.63	Normal up vs > 5 Years Off IS Tolerant
224352_PM_s_at	CFL2	cofilin 2 (muscle)	0.0002	2.70	Normal up vs > 5 Years Off IS Tolerant
220486_PM_x_at	TMEM164	transmembrane protein 164	0.0002	-1.45	Normal down vs > 5 Years Off IS Tolerant
229829_PM_at	C18orf18	chromosome 18 open reading frame 18	0.0002	1.83	Normal up vs > 5 Years Off IS Tolerant
203457_PM_at	STX7	syntaxin 7	0.0002	-1.53	Normal down vs > 5 Years Off IS Tolerant
1568665_PM_at	RNF103	ring finger protein 103	0.0002	2.41	Normal up vs > 5 Years Off IS Tolerant
226344_PM_at	ZMAT1	zinc finger, matrin-type 1	0.0002	2.01	Normal up vs > 5 Years Off IS Tolerant
214662_PM_at	WDR43	WD repeat domain 43	0.0002	1.95	Normal up vs > 5 Years Off IS Tolerant
202208_PM_s_at	ARL4C	ADP-ribosylation factor-like 4C	0.0002	2.13	Normal up vs > 5 Years Off IS Tolerant
218316_PM_at	TIMM9	translocase of inner mitochondrial membrane 9 homolog (yeast)	0.0002	1.67	Normal up vs > 5 Years Off IS Tolerant
219349_PM_s_at	EXOC2	exocyst complex component 2	0.0002	2.03	Normal up vs > 5 Years Off IS Tolerant
202775_PM_s_at	SFSWAP	splicing factor, suppressor of white-apricot homolog (<i>Drosophila</i>)	0.0002	1.47	Normal up vs > 5 Years Off IS Tolerant
218313_PM_s_at	GALNT7	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 7 (Gal	0.0002	-1.46	Normal down vs > 5 Years Off IS Tolerant
239163_PM_at	UBE2B	ubiquitin-conjugating enzyme E2B (RAD6 homolog)	0.0002	2.02	Normal up vs > 5 Years Off IS Tolerant
1552717_PM_s_at	CEP170 /// CEP170P1	centrosomal protein 170kDa /// centrosomal protein 170kDa pseudogene 1	0.0002	-1.71	Normal down vs > 5 Years Off IS Tolerant
202500_PM_at	DNAJB2	DnaJ (Hsp40) homolog, subfamily B, member 2	0.0002	1.65	Normal up vs > 5 Years Off IS Tolerant
219119_PM_at	NAA38	N(alpha)-acetyltransferase 38, NatC auxiliary subunit	0.0002	1.64	Normal up vs > 5 Years Off IS Tolerant
243450_PM_at	---	---	0.0002	2.16	Normal up vs > 5 Years Off IS Tolerant
236470_PM_at	---	---	0.0002	2.25	Normal up vs > 5 Years Off IS Tolerant
216220_PM_s_at	ADORA1	adenosine A1 receptor	0.0002	-1.53	Normal down vs > 5 Years Off IS Tolerant
210633_PM_x_at	KRT10	keratin 10	0.0002	1.51	Normal up vs > 5 Years Off IS Tolerant
221207_PM_s_at	NBEA	neurobeachin	0.0002	1.67	Normal up vs > 5 Years Off IS Tolerant
243434_PM_at	---	---	0.0002	-1.64	Normal down vs > 5 Years Off IS Tolerant
203409_PM_at	DDB2	damage-specific DNA binding protein 2, 48kDa	0.0002	1.74	Normal up vs > 5 Years Off IS Tolerant

1554584_PM_at	LRRC48	leucine rich repeat containing 48	0.0002	-1.36	Normal down vs > 5 Years Off IS Tolerant
240216_PM_at	---	---	0.0002	2.01	Normal up vs > 5 Years Off IS Tolerant
208796_PM_s_at	CCNG1	cyclin G1	0.0002	1.68	Normal up vs > 5 Years Off IS Tolerant
1561937_PM_x_at	---	---	0.0002	-1.83	Normal down vs > 5 Years Off IS Tolerant
225792_PM_at	HOOK1	hook homolog 1 (Drosophila)	0.0002	2.45	Normal up vs > 5 Years Off IS Tolerant
202042_PM_at	HARS	histidyl-tRNA synthetase	0.0002	1.51	Normal up vs > 5 Years Off IS Tolerant
228839_PM_s_at	LOC642361	hypothetical LOC642361	0.0002	1.73	Normal up vs > 5 Years Off IS Tolerant
220040_PM_x_at	ZC4H2	zinc finger, C4H2 domain containing	0.0002	1.51	Normal up vs > 5 Years Off IS Tolerant
211783_PM_s_at	MTA1	metastasis associated 1	0.0002	1.54	Normal up vs > 5 Years Off IS Tolerant
225237_PM_s_at	MSI2	musashi homolog 2 (Drosophila)	0.0002	2.20	Normal up vs > 5 Years Off IS Tolerant
230156_PM_x_at	CHD2	Chromodomain helicase DNA binding protein 2	0.0002	1.71	Normal up vs > 5 Years Off IS Tolerant
206042_PM_x_at	SNRPN /// SNURF	small nuclear ribonucleoprotein polypeptide N /// SNRPN upstream reading frame	0.0002	1.82	Normal up vs > 5 Years Off IS Tolerant
204000_PM_at	GNB5	guanine nucleotide binding protein (G protein), beta 5	0.0002	1.82	Normal up vs > 5 Years Off IS Tolerant
214789_PM_x_at	SRSF8	serine/arginine-rich splicing factor 8	0.0002	1.48	Normal up vs > 5 Years Off IS Tolerant
216931_PM_at	---	---	0.0002	-1.47	Normal down vs > 5 Years Off IS Tolerant
201229_PM_s_at	ARIH2	ariadne homolog 2 (Drosophila)	0.0002	1.88	Normal up vs > 5 Years Off IS Tolerant
214623_PM_at	FBXW4P1	F-box and WD repeat domain containing 4 pseudogene 1	0.0002	1.77	Normal up vs > 5 Years Off IS Tolerant
242778_PM_at	LPXN	leupaxin	0.0002	2.79	Normal up vs > 5 Years Off IS Tolerant
1552372_PM_at	C4orf33	chromosome 4 open reading frame 33	0.0002	-1.37	Normal down vs > 5 Years Off IS Tolerant
212156_PM_at	VPS39	vacuolar protein sorting 39 homolog (S. cerevisiae)	0.0002	1.48	Normal up vs > 5 Years Off IS Tolerant
217969_PM_at	C11orf2	chromosome 11 open reading frame 2	0.0002	1.43	Normal up vs > 5 Years Off IS Tolerant
203386_PM_at	TBC1D4	TBC1 domain family, member 4	0.0002	2.50	Normal up vs > 5 Years Off IS Tolerant
215347_PM_at	---	---	0.0002	-1.44	Normal down vs > 5 Years Off IS Tolerant
1553561_PM_at	TAS2R50	taste receptor, type 2, member 50	0.0002	-1.40	Normal down vs > 5 Years Off IS Tolerant
236022_PM_at	MYO19	myosin XIX	0.0002	2.11	Normal up vs > 5 Years Off IS Tolerant
237189_PM_at	LOC100506360	hypothetical LOC100506360	0.0002	2.43	Normal up vs > 5 Years Off IS Tolerant
200864_PM_s_at	RAB11A	RAB11A, member RAS oncogene family	0.0002	1.93	Normal up vs > 5 Years Off IS Tolerant
241323_PM_at	---	---	0.0002	-1.74	Normal down vs > 5 Years Off IS Tolerant

228057_PM_at	DDIT4L	DNA-damage-inducible transcript 4-like	0.0002	-1.64	Normal down vs > 5 Years Off IS Tolerant
228105_PM_at	---	---	0.0002	1.79	Normal up vs > 5 Years Off IS Tolerant
213291_PM_s_at	UBE3A	ubiquitin protein ligase E3A	0.0002	1.74	Normal up vs > 5 Years Off IS Tolerant
203493_PM_s_at	CEP57	centrosomal protein 57kDa	0.0002	2.18	Normal up vs > 5 Years Off IS Tolerant
234575_PM_at	ZNF71	zinc finger protein 71	0.0002	-1.46	Normal down vs > 5 Years Off IS Tolerant
209331_PM_s_at	MAX	MYC associated factor X	0.0002	1.53	Normal up vs > 5 Years Off IS Tolerant
1566484_PM_at	---	---	0.0002	-1.39	Normal down vs > 5 Years Off IS Tolerant
1563546_PM_at	---	---	0.0002	-1.63	Normal down vs > 5 Years Off IS Tolerant
214661_PM_s_at	NOP14	NOP14 nucleolar protein homolog (yeast)	0.0002	1.49	Normal up vs > 5 Years Off IS Tolerant
1565786_PM_x_at	FLJ45482	hypothetical LOC645566	0.0002	-1.45	Normal down vs > 5 Years Off IS Tolerant
205095_PM_s_at	ATP6V0A1	ATPase, H+ transporting, lysosomal V0 subunit a1	0.0002	-1.48	Normal down vs > 5 Years Off IS Tolerant
227131_PM_at	MAP3K3	mitogen-activated protein kinase kinase kinase 3	0.0002	-1.38	Normal down vs > 5 Years Off IS Tolerant
232521_PM_at	PCSK7	proprotein convertase subtilisin/kexin type 7	0.0002	2.63	Normal up vs > 5 Years Off IS Tolerant
230309_PM_at	BHMT2	betaine--homocysteine S-methyltransferase 2	0.0002	-1.42	Normal down vs > 5 Years Off IS Tolerant
1563120_PM_at	LOC100129029	Hypothetical LOC100129029	0.0002	-1.48	Normal down vs > 5 Years Off IS Tolerant
225240_PM_s_at	MSI2	musashi homolog 2 (Drosophila)	0.0002	1.76	Normal up vs > 5 Years Off IS Tolerant
236260_PM_at	LOC100287598	hypothetical LOC100287598	0.0002	2.18	Normal up vs > 5 Years Off IS Tolerant
202767_PM_at	ACP2	acid phosphatase 2, lysosomal	0.0002	-1.86	Normal down vs > 5 Years Off IS Tolerant
1555247_PM_a_at	FNIP1 /// RAPGEF6	folliculin interacting protein 1 /// Rap guanine nucleotide exchange factor (GEF) 6	0.0002	2.12	Normal up vs > 5 Years Off IS Tolerant
233540_PM_s_at	CDK5RAP2	CDK5 regulatory subunit associated protein 2	0.0002	2.09	Normal up vs > 5 Years Off IS Tolerant
225672_PM_at	GOLGA2	golgin A2	0.0002	-1.53	Normal down vs > 5 Years Off IS Tolerant
239047_PM_at	FAM122C	family with sequence similarity 122C	0.0002	1.51	Normal up vs > 5 Years Off IS Tolerant
236835_PM_at	LOC645431	hypothetical LOC645431	0.0002	1.53	Normal up vs > 5 Years Off IS Tolerant
222629_PM_at	REV1	REV1 homolog (S. cerevisiae)	0.0002	2.03	Normal up vs > 5 Years Off IS Tolerant
1563898_PM_at	---	---	0.0002	-1.52	Normal down vs > 5 Years Off IS Tolerant

1562573_PM_at	CYP17A1	cytochrome P450, family 17, subfamily A, polypeptide 1	0.0002	-1.42	Normal down vs > 5 Years Off IS Tolerant
223021_PM_x_at	VTA1	Vps20-associated 1 homolog (<i>S. cerevisiae</i>)	0.0002	-1.53	Normal down vs > 5 Years Off IS Tolerant
1557151_PM_at	TRIM31	Tripartite motif-containing 31	0.0002	-1.32	Normal down vs > 5 Years Off IS Tolerant
212274_PM_at	LPIN1	lipin 1	0.0002	1.79	Normal up vs > 5 Years Off IS Tolerant
1554250_PM_s_at	TRIM73	tripartite motif-containing 73	0.0002	1.69	Normal up vs > 5 Years Off IS Tolerant
1563087_PM_at	---	---	0.0002	-1.65	Normal down vs > 5 Years Off IS Tolerant
213088_PM_s_at	DNAJC9	DnaJ (Hsp40) homolog, subfamily C, member 9	0.0002	1.78	Normal up vs > 5 Years Off IS Tolerant
229253_PM_at	THEM4	thioesterase superfamily member 4	0.0002	2.69	Normal up vs > 5 Years Off IS Tolerant
243382_PM_at	---	---	0.0002	-1.35	Normal down vs > 5 Years Off IS Tolerant
238483_PM_at	SSBP2	single-stranded DNA binding protein 2	0.0002	1.76	Normal up vs > 5 Years Off IS Tolerant
208195_PM_at	TTN	titin	0.0002	2.00	Normal up vs > 5 Years Off IS Tolerant
228053_PM_s_at	TOMM5	translocase of outer mitochondrial membrane 5 homolog (yeast)	0.0002	1.76	Normal up vs > 5 Years Off IS Tolerant
237077_PM_at	---	---	0.0002	-1.72	Normal down vs > 5 Years Off IS Tolerant
230598_PM_at	---	---	0.0002	2.19	Normal up vs > 5 Years Off IS Tolerant
1563045_PM_at	---	---	0.0002	-1.51	Normal down vs > 5 Years Off IS Tolerant
226131_PM_s_at	RPS16	ribosomal protein S16	0.0002	1.11	Normal up vs > 5 Years Off IS Tolerant
213304_PM_at	FAM179B	family with sequence similarity 179, member B	0.0002	1.94	Normal up vs > 5 Years Off IS Tolerant
224785_PM_at	FAM100B	family with sequence similarity 100, member B	0.0002	1.92	Normal up vs > 5 Years Off IS Tolerant
212690_PM_at	DDHD2	DDHD domain containing 2	0.0002	1.76	Normal up vs > 5 Years Off IS Tolerant
229907_PM_at	---	---	0.0002	2.35	Normal up vs > 5 Years Off IS Tolerant
243891_PM_at	---	---	0.0002	-1.47	Normal down vs > 5 Years Off IS Tolerant
211841_PM_s_at	TNFRSF25	tumor necrosis factor receptor superfamily, member 25	0.0002	2.54	Normal up vs > 5 Years Off IS Tolerant
1554517_PM_x_at	LOC100288109 /// LOC203274	Hypothetical protein LOC100288109 /// Hypothetical protein LOC203274	0.0002	-1.52	Normal down vs > 5 Years Off IS Tolerant
1554074_PM_s_at	SLFNL1	schlafen-like 1	0.0002	-1.52	Normal down vs > 5 Years Off IS Tolerant
229340_PM_at	NKAPL	NFKB activating protein-like	0.0002	-1.54	Normal down vs > 5 Years Off IS Tolerant
223674_PM_s_at	CDC42SE1	CDC42 small effector 1	0.0003	2.81	Normal up vs > 5 Years Off IS Tolerant

215693_PM_x_at	DDX27	DEAD (Asp-Glu-Ala-Asp) box polypeptide 27	0.0003	1.46	Normal up vs > 5 Years Off IS Tolerant
234760_PM_at	---	---	0.0003	-1.38	Normal down vs > 5 Years Off IS Tolerant
1558177_PM_at	TMEM229B	transmembrane protein 229B	0.0003	-1.59	Normal down vs > 5 Years Off IS Tolerant
213873_PM_at	---	---	0.0003	-1.50	Normal down vs > 5 Years Off IS Tolerant
227134_PM_at	SYTL1	synaptotagmin-like 1	0.0003	1.80	Normal up vs > 5 Years Off IS Tolerant
221020_PM_s_at	SLC25A32	solute carrier family 25, member 32	0.0003	1.98	Normal up vs > 5 Years Off IS Tolerant
201826_PM_s_at	SCCPDH	saccharopine dehydrogenase (putative)	0.0003	-1.65	Normal down vs > 5 Years Off IS Tolerant
1564628_PM_at	---	---	0.0003	-1.62	Normal down vs > 5 Years Off IS Tolerant
224603_PM_at	---	---	0.0003	1.62	Normal up vs > 5 Years Off IS Tolerant
203810_PM_at	DNAJB4	DnaJ (Hsp40) homolog, subfamily B, member 4	0.0003	1.77	Normal up vs > 5 Years Off IS Tolerant
221640_PM_s_at	LRDD	leucine-rich repeats and death domain containing	0.0003	1.63	Normal up vs > 5 Years Off IS Tolerant
232125_PM_at	---	---	0.0003	1.80	Normal up vs > 5 Years Off IS Tolerant
220659_PM_s_at	C7orf43	chromosome 7 open reading frame 43	0.0003	1.46	Normal up vs > 5 Years Off IS Tolerant
203497_PM_at	MED1	mediator complex subunit 1	0.0003	1.63	Normal up vs > 5 Years Off IS Tolerant
1562390_PM_at	---	---	0.0003	-1.44	Normal down vs > 5 Years Off IS Tolerant
236554_PM_x_at	TMC8	transmembrane channel-like 8	0.0003	1.72	Normal up vs > 5 Years Off IS Tolerant
1555311_PM_at	---	---	0.0003	-1.59	Normal down vs > 5 Years Off IS Tolerant
226587_PM_at	SNRPN	small nuclear ribonucleoprotein polypeptide N	0.0003	2.87	Normal up vs > 5 Years Off IS Tolerant
239381_PM_at	KLK7	kallikrein-related peptidase 7	0.0003	-1.24	Normal down vs > 5 Years Off IS Tolerant
216216_PM_at	SLIT3	slit homolog 3 (Drosophila)	0.0003	-1.30	Normal down vs > 5 Years Off IS Tolerant
219749_PM_at	SH2D4A	SH2 domain containing 4A	0.0003	-1.66	Normal down vs > 5 Years Off IS Tolerant
211970_PM_x_at	ACTG1	actin, gamma 1	0.0003	-1.18	Normal down vs > 5 Years Off IS Tolerant
213927_PM_at	MAP3K9	mitogen-activated protein kinase kinase kinase 9	0.0003	1.73	Normal up vs > 5 Years Off IS Tolerant
215574_PM_at	---	---	0.0003	-1.40	Normal down vs > 5 Years Off IS Tolerant
207672_PM_at	---	---	0.0003	-1.30	Normal down vs > 5 Years Off IS Tolerant
223401_PM_at	C17orf48	chromosome 17 open reading frame 48	0.0003	1.74	Normal up vs > 5 Years Off IS Tolerant

205762_PM_s_at	DUS4L	dihydrouridine synthase 4-like (<i>S. cerevisiae</i>)	0.0003	1.48	Normal up vs > 5 Years Off IS Tolerant
212334_PM_at	GNS	glucosamine (N-acetyl)-6-sulfatase	0.0003	-1.46	Normal down vs > 5 Years Off IS Tolerant
225073_PM_at	PPHLN1	periphilin 1	0.0003	1.43	Normal up vs > 5 Years Off IS Tolerant
222789_PM_at	RSBN1	round spermatid basic protein 1	0.0003	1.44	Normal up vs > 5 Years Off IS Tolerant
1563487_PM_at	---	---	0.0003	-1.46	Normal down vs > 5 Years Off IS Tolerant
237425_PM_at	LOC474358	hypothetical BC042079 locus	0.0003	-1.40	Normal down vs > 5 Years Off IS Tolerant
221677_PM_s_at	DONSON	downstream neighbor of SON	0.0003	1.87	Normal up vs > 5 Years Off IS Tolerant
1552791_PM_a_at	TRDN	triadin	0.0003	-1.74	Normal down vs > 5 Years Off IS Tolerant
230175_PM_s_at	DCBLD2	Discoidin, CUB and LCCL domain containing 2	0.0003	-2.07	Normal down vs > 5 Years Off IS Tolerant
208507_PM_at	OR7C2	olfactory receptor, family 7, subfamily C, member 2	0.0003	-1.35	Normal down vs > 5 Years Off IS Tolerant
218167_PM_at	AMZ2	archaelysin family metallopeptidase 2	0.0003	1.46	Normal up vs > 5 Years Off IS Tolerant
209955_PM_s_at	FAP	fibroblast activation protein, alpha	0.0003	-1.58	Normal down vs > 5 Years Off IS Tolerant
1568763_PM_s_at	LOC728613 /// PDCD6	programmed cell death 6 pseudogene /// programmed cell death 6	0.0003	1.85	Normal up vs > 5 Years Off IS Tolerant
1559038_PM_at	2-Sep	septin 2	0.0003	2.00	Normal up vs > 5 Years Off IS Tolerant
202213_PM_s_at	CUL4B	cullin 4B	0.0003	2.32	Normal up vs > 5 Years Off IS Tolerant
241306_PM_at	---	---	0.0003	-1.54	Normal down vs > 5 Years Off IS Tolerant
239484_PM_at	TRPM7	transient receptor potential cation channel, subfamily M, member 7	0.0003	1.89	Normal up vs > 5 Years Off IS Tolerant
1563805_PM_a_at	FAM83C	family with sequence similarity 83, member C	0.0003	-1.52	Normal down vs > 5 Years Off IS Tolerant
202413_PM_s_at	USP1	ubiquitin specific peptidase 1	0.0003	1.51	Normal up vs > 5 Years Off IS Tolerant
226388_PM_at	TCEA3	transcription elongation factor A (SII), 3	0.0003	2.89	Normal up vs > 5 Years Off IS Tolerant
221426_PM_s_at	OR3A3	olfactory receptor, family 3, subfamily A, member 3	0.0003	-1.44	Normal down vs > 5 Years Off IS Tolerant
204080_PM_at	TOE1	target of EGR1, member 1 (nuclear)	0.0003	1.74	Normal up vs > 5 Years Off IS Tolerant
203367_PM_at	DUSP14	dual specificity phosphatase 14	0.0003	1.74	Normal up vs > 5 Years Off IS Tolerant
1569905_PM_at	HSD11B1L	hydroxysteroid (11-beta) dehydrogenase 1-like	0.0003	-1.36	Normal down vs > 5 Years Off IS Tolerant
244105_PM_at	WHAMML1 /// WHAMML2	WAS protein homolog associated with actin, golgi membranes and microtubules-like 1 (pse	0.0003	1.63	Normal up vs > 5 Years Off IS Tolerant

241180_PM_at	LOC100129112	Hypothetical protein LOC100129112	0.0003	-1.32	Normal down vs > 5 Years Off IS Tolerant
203281_PM_s_at	UBA7	ubiquitin-like modifier activating enzyme 7	0.0003	1.55	Normal up vs > 5 Years Off IS Tolerant
213499_PM_at	CLCN2	chloride channel 2	0.0003	1.36	Normal up vs > 5 Years Off IS Tolerant
223501_PM_at	TNFSF13B	tumor necrosis factor (ligand) superfamily, member 13b	0.0003	-1.77	Normal down vs > 5 Years Off IS Tolerant
225808_PM_at	C17orf95	chromosome 17 open reading frame 95	0.0003	1.46	Normal up vs > 5 Years Off IS Tolerant
1553319_PM_at	OXGR1	oxoglutarate (alpha-ketoglutarate) receptor 1	0.0003	-1.27	Normal down vs > 5 Years Off IS Tolerant
231055_PM_at	---	---	0.0003	1.89	Normal up vs > 5 Years Off IS Tolerant
205047_PM_s_at	ASNS	asparagine synthetase (glutamine-hydrolyzing)	0.0003	2.06	Normal up vs > 5 Years Off IS Tolerant
230386_PM_at	---	---	0.0003	-1.53	Normal down vs > 5 Years Off IS Tolerant
208126_PM_s_at	CYP2C18	cytochrome P450, family 2, subfamily C, polypeptide 18	0.0003	-1.62	Normal down vs > 5 Years Off IS Tolerant
215164_PM_at	---	---	0.0003	-2.57	Normal down vs > 5 Years Off IS Tolerant
225033_PM_at	ST3GAL1	ST3 beta-galactoside alpha-2,3-sialyltransferase 1	0.0003	1.83	Normal up vs > 5 Years Off IS Tolerant
241924_PM_at	---	---	0.0003	2.18	Normal up vs > 5 Years Off IS Tolerant
221940_PM_at	RPUSD2	RNA pseudouridylate synthase domain containing 2	0.0003	1.55	Normal up vs > 5 Years Off IS Tolerant
218284_PM_at	SMAD3	SMAD family member 3	0.0003	1.52	Normal up vs > 5 Years Off IS Tolerant
215468_PM_at	LOC647070	hypothetical LOC647070	0.0003	-1.43	Normal down vs > 5 Years Off IS Tolerant
228031_PM_at	TTPAL	tocopherol (alpha) transfer protein-like	0.0003	1.44	Normal up vs > 5 Years Off IS Tolerant
215135_PM_at	DNPEP	aspartyl aminopeptidase	0.0003	1.72	Normal up vs > 5 Years Off IS Tolerant
230387_PM_at	---	---	0.0003	1.76	Normal up vs > 5 Years Off IS Tolerant
242984_PM_at	MKLN1	muskelin 1, intracellular mediator containing kelch motifs	0.0003	-2.33	Normal down vs > 5 Years Off IS Tolerant
201522_PM_x_at	SNRPN /// SNURF	small nuclear ribonucleoprotein polypeptide N /// SNRPN upstream reading frame	0.0003	1.69	Normal up vs > 5 Years Off IS Tolerant
237006_PM_at	---	---	0.0003	2.07	Normal up vs > 5 Years Off IS Tolerant
201037_PM_at	PFKP	phosphofructokinase, platelet	0.0003	1.61	Normal up vs > 5 Years Off IS Tolerant
219045_PM_at	RHOF	ras homolog gene family, member F (in filopodia)	0.0003	1.68	Normal up vs > 5 Years Off IS Tolerant
222791_PM_at	RSBN1	round spermatid basic protein 1	0.0003	1.90	Normal up vs > 5 Years Off IS Tolerant
235721_PM_at	DTX3	deltex homolog 3 (Drosophila)	0.0003	1.60	Normal up vs > 5 Years Off IS Tolerant
239278_PM_at	---	---	0.0003	2.72	Normal up vs > 5 Years Off IS Tolerant
228760_PM_at	SRSF8	serine/arginine-rich splicing factor 8	0.0003	1.74	Normal up vs > 5 Years Off IS Tolerant
200629_PM_at	WARS	tryptophanyl-tRNA synthetase	0.0003	-1.66	Normal down vs > 5 Years Off IS Tolerant

224207_PM_x_at	MMP28	matrix metallopeptidase 28	0.0003	-1.75	Normal down vs > 5 Years Off IS Tolerant
244593_PM_at	C17orf28	chromosome 17 open reading frame 28	0.0003	-1.32	Normal down vs > 5 Years Off IS Tolerant
238632_PM_at	LOC100505946	hypothetical LOC100505946	0.0003	-1.46	Normal down vs > 5 Years Off IS Tolerant
207113_PM_s_at	TNF	tumor necrosis factor	0.0003	3.55	Normal up vs > 5 Years Off IS Tolerant
209062_PM_x_at	NCOA3	nuclear receptor coactivator 3	0.0003	2.54	Normal up vs > 5 Years Off IS Tolerant
201662_PM_s_at	ACSL3	acyl-CoA synthetase long-chain family member 3	0.0003	2.05	Normal up vs > 5 Years Off IS Tolerant
242772_PM_x_at	---	---	0.0003	2.29	Normal up vs > 5 Years Off IS Tolerant
227082_PM_at	---	---	0.0003	1.87	Normal up vs > 5 Years Off IS Tolerant
205067_PM_at	IL1B	interleukin 1, beta	0.0003	7.33	Normal up vs > 5 Years Off IS Tolerant
200012_PM_x_at	RPL21	ribosomal protein L21	0.0003	1.15	Normal up vs > 5 Years Off IS Tolerant
235493_PM_at	---	---	0.0003	2.07	Normal up vs > 5 Years Off IS Tolerant
206296_PM_x_at	MAP4K1	mitogen-activated protein kinase kinase kinase 1	0.0003	1.73	Normal up vs > 5 Years Off IS Tolerant
1553530_PM_a_at	ITGB1	integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, M	0.0003	2.09	Normal up vs > 5 Years Off IS Tolerant
226867_PM_at	DENND4C	DENN/MADD domain containing 4C	0.0003	1.70	Normal up vs > 5 Years Off IS Tolerant
229742_PM_at	C15orf61	chromosome 15 open reading frame 61	0.0003	1.84	Normal up vs > 5 Years Off IS Tolerant
209105_PM_at	NCOA1	nuclear receptor coactivator 1	0.0003	1.71	Normal up vs > 5 Years Off IS Tolerant
215440_PM_s_at	BEX4	brain expressed, X-linked 4	0.0003	2.39	Normal up vs > 5 Years Off IS Tolerant
210137_PM_s_at	DCTD	dCMP deaminase	0.0003	1.52	Normal up vs > 5 Years Off IS Tolerant
232416_PM_at	CELF5	CUGBP, Elav-like family member 5	0.0003	-1.36	Normal down vs > 5 Years Off IS Tolerant
219716_PM_at	APOL6	apolipoprotein L, 6	0.0003	-1.50	Normal down vs > 5 Years Off IS Tolerant
238716_PM_at	FAM85A	family with sequence similarity 85, member A	0.0003	1.84	Normal up vs > 5 Years Off IS Tolerant
238884_PM_at	---	---	0.0003	-1.59	Normal down vs > 5 Years Off IS Tolerant
234158_PM_at	---	---	0.0003	-1.98	Normal down vs > 5 Years Off IS Tolerant
230526_PM_at	LOC100131096	hypothetical LOC100131096	0.0003	2.10	Normal up vs > 5 Years Off IS Tolerant
212846_PM_at	RRP1B	ribosomal RNA processing 1 homolog B (S. cerevisiae)	0.0003	1.95	Normal up vs > 5 Years Off IS Tolerant
218517_PM_at	PHF17	PHD finger protein 17	0.0003	1.64	Normal up vs > 5 Years Off IS Tolerant
232079_PM_s_at	PVRL2	poliovirus receptor-related 2 (herpesvirus entry mediator B)	0.0003	-1.47	Normal down vs > 5 Years Off IS Tolerant
212927_PM_at	SMC5	structural maintenance of chromosomes 5	0.0003	1.45	Normal up vs > 5 Years Off IS Tolerant

200670_PM_at	XBP1	X-box binding protein 1	0.0003	1.37	Normal up vs > 5 Years Off IS Tolerant
229313_PM_at	ANO5	anoctamin 5	0.0003	-1.49	Normal down vs > 5 Years Off IS Tolerant
201707_PM_at	PEX19	peroxisomal biogenesis factor 19	0.0003	1.78	Normal up vs > 5 Years Off IS Tolerant
222885_PM_at	EMCN	endomucin	0.0003	-1.56	Normal down vs > 5 Years Off IS Tolerant
215178_PM_x_at	NAAA	N-acylethanolamine acid amidase	0.0003	-1.50	Normal down vs > 5 Years Off IS Tolerant
201811_PM_x_at	SH3BP5	SH3-domain binding protein 5 (BTK-associated)	0.0003	1.38	Normal up vs > 5 Years Off IS Tolerant
227729_PM_at	---	---	0.0003	1.73	Normal up vs > 5 Years Off IS Tolerant
239062_PM_at	LOC100131096	hypothetical LOC100131096	0.0003	1.98	Normal up vs > 5 Years Off IS Tolerant
207032_PM_s_at	CRISP1	cysteine-rich secretory protein 1	0.0003	-1.50	Normal down vs > 5 Years Off IS Tolerant
203228_PM_at	PAFAH1B3	platelet-activating factor acetylhydrolase 1b, catalytic subunit 3 (29kDa)	0.0003	1.75	Normal up vs > 5 Years Off IS Tolerant
221313_PM_at	GPR52	G protein-coupled receptor 52	0.0003	-1.60	Normal down vs > 5 Years Off IS Tolerant
218425_PM_at	RNF216	ring finger protein 216	0.0003	2.20	Normal up vs > 5 Years Off IS Tolerant
237048_PM_at	---	---	0.0003	1.48	Normal up vs > 5 Years Off IS Tolerant
228611_PM_s_at	---	---	0.0003	1.77	Normal up vs > 5 Years Off IS Tolerant
1561500_PM_at	CTU2	Cytosolic thiouridylase subunit 2 homolog (S. pombe)	0.0003	-1.47	Normal down vs > 5 Years Off IS Tolerant
238935_PM_at	RPS27L	ribosomal protein S27-like	0.0003	2.08	Normal up vs > 5 Years Off IS Tolerant
239185_PM_at	ABCA9	ATP-binding cassette, sub-family A (ABC1), member 9	0.0003	-1.50	Normal down vs > 5 Years Off IS Tolerant
232716_PM_at	---	---	0.0003	-2.20	Normal down vs > 5 Years Off IS Tolerant
1562596_PM_at	---	---	0.0003	-1.38	Normal down vs > 5 Years Off IS Tolerant
233088_PM_at	---	---	0.0003	1.33	Normal up vs > 5 Years Off IS Tolerant
213214_PM_x_at	ACTG1	actin, gamma 1	0.0003	-1.16	Normal down vs > 5 Years Off IS Tolerant
234356_PM_at	DKFZP434K028	hypothetical LOC26070	0.0003	-1.42	Normal down vs > 5 Years Off IS Tolerant
218258_PM_at	POLR1D	polymerase (RNA) I polypeptide D, 16kDa	0.0003	1.67	Normal up vs > 5 Years Off IS Tolerant
240276_PM_at	---	---	0.0003	-1.71	Normal down vs > 5 Years Off IS Tolerant
200740_PM_s_at	SUMO3	SMT3 suppressor of mif two 3 homolog 3 (S. cerevisiae)	0.0003	1.47	Normal up vs > 5 Years Off IS Tolerant

227548_PM_at	ORMDL1	ORM1-like 1 (<i>S. cerevisiae</i>)	0.0003	2.35	Normal up vs > 5 Years Off IS Tolerant
228272_PM_at	DNLZ	DNL-type zinc finger	0.0003	2.18	Normal up vs > 5 Years Off IS Tolerant
241566_PM_at	---	---	0.0003	-1.55	Normal down vs > 5 Years Off IS Tolerant
207786_PM_at	CYP2R1	Cytochrome P450, family 2, subfamily R, polypeptide 1	0.0003	1.86	Normal up vs > 5 Years Off IS Tolerant
212505_PM_s_at	MAU2	MAU2 chromatid cohesion factor homolog (<i>C. elegans</i>)	0.0003	1.32	Normal up vs > 5 Years Off IS Tolerant
1566693_PM_at	---	---	0.0003	-1.48	Normal down vs > 5 Years Off IS Tolerant
230449_PM_x_at	---	---	0.0003	1.91	Normal up vs > 5 Years Off IS Tolerant
208021_PM_s_at	RFC1	replication factor C (activator 1) 1, 145kDa	0.0003	1.53	Normal up vs > 5 Years Off IS Tolerant
212735_PM_at	KIAA0226	KIAA0226	0.0003	1.46	Normal up vs > 5 Years Off IS Tolerant
211203_PM_s_at	CNTN1	contactin 1	0.0003	-1.35	Normal down vs > 5 Years Off IS Tolerant
219233_PM_s_at	GSDMB	gasdermin B	0.0003	2.29	Normal up vs > 5 Years Off IS Tolerant
201529_PM_s_at	RPA1	replication protein A1, 70kDa	0.0003	1.75	Normal up vs > 5 Years Off IS Tolerant
1553046_PM_s_at	GAL3ST2	galactose-3-O-sulfotransferase 2	0.0003	-1.28	Normal down vs > 5 Years Off IS Tolerant
78383_PM_at	LOC100129250	hypothetical LOC100129250	0.0003	1.68	Normal up vs > 5 Years Off IS Tolerant
1564469_PM_at	LMOD3	leiomodoin 3 (fetal)	0.0003	-1.33	Normal down vs > 5 Years Off IS Tolerant
202465_PM_at	PCOLCE	procollagen C-endopeptidase enhancer	0.0003	1.37	Normal up vs > 5 Years Off IS Tolerant
223006_PM_s_at	C9orf5	chromosome 9 open reading frame 5	0.0003	1.62	Normal up vs > 5 Years Off IS Tolerant
229145_PM_at	ANAPC16	anaphase promoting complex subunit 16	0.0003	1.87	Normal up vs > 5 Years Off IS Tolerant
213534_PM_s_at	PASK	PAS domain containing serine/threonine kinase	0.0003	3.58	Normal up vs > 5 Years Off IS Tolerant
237462_PM_at	---	---	0.0003	-1.30	Normal down vs > 5 Years Off IS Tolerant
220510_PM_at	RHBG	Rh family, B glycoprotein (gene/pseudogene)	0.0003	-1.50	Normal down vs > 5 Years Off IS Tolerant
227676_PM_at	FAM3D	family with sequence similarity 3, member D	0.0003	-1.44	Normal down vs > 5 Years Off IS Tolerant
209439_PM_s_at	PHKA2	phosphorylase kinase, alpha 2 (liver)	0.0003	1.44	Normal up vs > 5 Years Off IS Tolerant
226413_PM_at	LOC400027	hypothetical LOC400027	0.0003	1.86	Normal up vs > 5 Years Off IS Tolerant
203393_PM_at	HES1	hairy and enhancer of split 1, (<i>Drosophila</i>)	0.0003	-1.30	Normal down vs > 5 Years Off IS Tolerant
225957_PM_at	C5orf41	chromosome 5 open reading frame 41	0.0003	1.56	Normal up vs > 5 Years Off IS Tolerant
1561088_PM_at	EYA4	eyes absent homolog 4 (<i>Drosophila</i>)	0.0003	-1.89	Normal down vs > 5 Years Off IS Tolerant

228320_PM_x_at	CCDC64	coiled-coil domain containing 64	0.0003	2.02	Normal up vs > 5 Years Off IS Tolerant
235912_PM_at	---	---	0.0003	2.27	Normal up vs > 5 Years Off IS Tolerant
241935_PM_at	SHROOM1	shroom family member 1	0.0003	-1.46	Normal down vs > 5 Years Off IS Tolerant
225845_PM_at	ZBTB44	zinc finger and BTB domain containing 44	0.0003	1.62	Normal up vs > 5 Years Off IS Tolerant
209494_PM_s_at	PATZ1	POZ (BTB) and AT hook containing zinc finger 1	0.0003	1.59	Normal up vs > 5 Years Off IS Tolerant
225496_PM_s_at	SYTL2	synaptotagmin-like 2	0.0003	3.06	Normal up vs > 5 Years Off IS Tolerant
219073_PM_s_at	OSBPL10	oxysterol binding protein-like 10	0.0003	3.47	Normal up vs > 5 Years Off IS Tolerant
244676_PM_s_at	MTUS2	microtubule associated tumor suppressor candidate 2	0.0003	-1.32	Normal down vs > 5 Years Off IS Tolerant
217012_PM_at	---	---	0.0003	-1.47	Normal down vs > 5 Years Off IS Tolerant
220342_PM_x_at	EDEM3	ER degradation enhancer, mannosidase alpha-like 3	0.0003	-1.78	Normal down vs > 5 Years Off IS Tolerant
218047_PM_at	OSBPL9	oxysterol binding protein-like 9	0.0003	1.53	Normal up vs > 5 Years Off IS Tolerant
229444_PM_at	LOC100131607	hypothetical LOC100131607	0.0003	1.75	Normal up vs > 5 Years Off IS Tolerant
205089_PM_at	ZNF7	zinc finger protein 7	0.0003	1.90	Normal up vs > 5 Years Off IS Tolerant
226650_PM_at	ZFAND2A	zinc finger, AN1-type domain 2A	0.0003	1.80	Normal up vs > 5 Years Off IS Tolerant
234662_PM_at	RAD21L1	RAD21-like 1 (S. pombe)	0.0003	-1.51	Normal down vs > 5 Years Off IS Tolerant
220048_PM_at	EDAR	ectodysplasin A receptor	0.0003	2.41	Normal up vs > 5 Years Off IS Tolerant
200593_PM_s_at	HNRNPU	heterogeneous nuclear ribonucleoprotein U (scaffold attachment factor A)	0.0003	1.19	Normal up vs > 5 Years Off IS Tolerant
214003_PM_x_at	RPS20	ribosomal protein S20	0.0003	1.14	Normal up vs > 5 Years Off IS Tolerant
229101_PM_at	IL17RA /// LOC100506204	interleukin 17 receptor A /// hypothetical LOC100506204	0.0003	-1.65	Normal down vs > 5 Years Off IS Tolerant
205877_PM_s_at	ZC3H7B	zinc finger CCCH-type containing 7B	0.0003	-1.41	Normal down vs > 5 Years Off IS Tolerant
212197_PM_x_at	MPRIP	myosin phosphatase Rho interacting protein	0.0003	1.39	Normal up vs > 5 Years Off IS Tolerant
202944_PM_at	NAGA	N-acetylgalactosaminidase, alpha-	0.0003	-1.71	Normal down vs > 5 Years Off IS Tolerant
1555702_PM_a_at	ST3GAL3	ST3 beta-galactoside alpha-2,3-sialyltransferase 3	0.0003	1.53	Normal up vs > 5 Years Off IS Tolerant
201678_PM_s_at	C3orf37	chromosome 3 open reading frame 37	0.0003	1.63	Normal up vs > 5 Years Off IS Tolerant
231726_PM_at	PCDHB14	protocadherin beta 14	0.0003	-1.49	Normal down vs > 5 Years Off IS Tolerant
1566725_PM_at	---	---	0.0003	-1.36	Normal down vs > 5 Years Off IS Tolerant
212871_PM_at	MAPKAPK5	mitogen-activated protein kinase-activated protein kinase 5	0.0003	1.76	Normal up vs > 5 Years Off IS Tolerant

201485_PM_s_at	RCN2	reticulocalbin 2, EF-hand calcium binding domain	0.0003	1.77	Normal up vs > 5 Years Off IS Tolerant
240830_PM_at	SCARNA17	small Cajal body-specific RNA 17	0.0003	2.19	Normal up vs > 5 Years Off IS Tolerant
221234_PM_s_at	BACH2	BTB and CNC homology 1, basic leucine zipper transcription factor 2	0.0003	2.95	Normal up vs > 5 Years Off IS Tolerant
1559117_PM_at	---	---	0.0003	-2.28	Normal down vs > 5 Years Off IS Tolerant
209054_PM_s_at	WHSC1	Wolf-Hirschhorn syndrome candidate 1	0.0003	1.57	Normal up vs > 5 Years Off IS Tolerant
237410_PM_x_at	---	---	0.0004	-1.44	Normal down vs > 5 Years Off IS Tolerant
219358_PM_s_at	ADAP2	ArfGAP with dual PH domains 2	0.0004	-1.74	Normal down vs > 5 Years Off IS Tolerant
218668_PM_s_at	RAP2C	RAP2C, member of RAS oncogene family	0.0004	1.75	Normal up vs > 5 Years Off IS Tolerant
214235_PM_at	CYP3A5	cytochrome P450, family 3, subfamily A, polypeptide 5	0.0004	-1.37	Normal down vs > 5 Years Off IS Tolerant
232459_PM_at	---	---	0.0004	-1.60	Normal down vs > 5 Years Off IS Tolerant
210164_PM_at	GZMB	granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1)	0.0004	3.19	Normal up vs > 5 Years Off IS Tolerant
213995_PM_at	ATP5S	ATP synthase, H+ transporting, mitochondrial Fo complex, subunit s (factor B)	0.0004	2.15	Normal up vs > 5 Years Off IS Tolerant
233803_PM_s_at	MYBBP1A	MYB binding protein (P160) 1a	0.0004	1.44	Normal up vs > 5 Years Off IS Tolerant
227361_PM_at	HS3ST3B1	heparan sulfate (glucosamine) 3-O-sulfotransferase 3B1	0.0004	2.94	Normal up vs > 5 Years Off IS Tolerant
228330_PM_at	ZUFSP	zinc finger with UFM1-specific peptidase domain	0.0004	1.98	Normal up vs > 5 Years Off IS Tolerant
39402_PM_at	IL1B	interleukin 1, beta	0.0004	7.05	Normal up vs > 5 Years Off IS Tolerant
1561553_PM_at	---	---	0.0004	-1.27	Normal down vs > 5 Years Off IS Tolerant
228370_PM_at	LOC100506948	hypothetical LOC100506948	0.0004	2.00	Normal up vs > 5 Years Off IS Tolerant
234170_PM_at	---	---	0.0004	-1.49	Normal down vs > 5 Years Off IS Tolerant
238970_PM_at	---	---	0.0004	2.03	Normal up vs > 5 Years Off IS Tolerant
226659_PM_at	DEF6	differentially expressed in FDCP 6 homolog (mouse)	0.0004	1.42	Normal up vs > 5 Years Off IS Tolerant
202313_PM_at	PPP2R2A	protein phosphatase 2, regulatory subunit B, alpha	0.0004	1.33	Normal up vs > 5 Years Off IS Tolerant
229701_PM_at	DNAJC9	DnaJ (Hsp40) homolog, subfamily C, member 9	0.0004	-1.28	Normal down vs > 5 Years Off IS Tolerant
212789_PM_at	NCAPD3	non-SMC condensin II complex, subunit D3	0.0004	1.68	Normal up vs > 5 Years Off IS Tolerant
218545_PM_at	CCDC91	coiled-coil domain containing 91	0.0004	1.53	Normal up vs > 5 Years Off IS Tolerant
206171_PM_at	ADORA3	adenosine A3 receptor	0.0004	-1.41	Normal down vs > 5 Years Off IS Tolerant

227591_PM_at	---	---	0.0004	1.75	Normal up vs > 5 Years Off IS Tolerant
204442_PM_x_at	LTBP4	latent transforming growth factor beta binding protein 4	0.0004	1.49	Normal up vs > 5 Years Off IS Tolerant
1556274_PM_at	---	---	0.0004	-1.38	Normal down vs > 5 Years Off IS Tolerant
201550_PM_x_at	ACTG1	actin, gamma 1	0.0004	-1.17	Normal down vs > 5 Years Off IS Tolerant
224885_PM_s_at	KRTCAP2	keratinocyte associated protein 2	0.0004	1.43	Normal up vs > 5 Years Off IS Tolerant
236310_PM_at	---	---	0.0004	-1.41	Normal down vs > 5 Years Off IS Tolerant
218928_PM_s_at	SLC37A1	solute carrier family 37 (glycerol-3-phosphate transporter), member 1	0.0004	1.45	Normal up vs > 5 Years Off IS Tolerant
228483_PM_s_at	TAF9B	TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31kDa	0.0004	2.27	Normal up vs > 5 Years Off IS Tolerant
229419_PM_at	FBXW7	F-box and WD repeat domain containing 7	0.0004	1.42	Normal up vs > 5 Years Off IS Tolerant
213512_PM_at	C14orf79	chromosome 14 open reading frame 79	0.0004	-1.45	Normal down vs > 5 Years Off IS Tolerant
208072_PM_s_at	DGKD	diacylglycerol kinase, delta 130kDa	0.0004	1.42	Normal up vs > 5 Years Off IS Tolerant
201675_PM_at	AKAP1	A kinase (PRKA) anchor protein 1	0.0004	1.53	Normal up vs > 5 Years Off IS Tolerant
1558540_PM_s_at	SLC2A11	solute carrier family 2 (facilitated glucose transporter), member 11	0.0004	1.58	Normal up vs > 5 Years Off IS Tolerant
1556739_PM_at	GOLGA8IP	golgin A8 family, member I (pseudogene)	0.0004	-1.46	Normal down vs > 5 Years Off IS Tolerant
211440_PM_x_at	CYP3A43	cytochrome P450, family 3, subfamily A, polypeptide 43	0.0004	-1.49	Normal down vs > 5 Years Off IS Tolerant
233498_PM_at	ERBB4	v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian)	0.0004	-1.57	Normal down vs > 5 Years Off IS Tolerant
217313_PM_at	---	---	0.0004	1.61	Normal up vs > 5 Years Off IS Tolerant
240894_PM_at	LOC100505649	hypothetical LOC100505649	0.0004	-1.38	Normal down vs > 5 Years Off IS Tolerant
212590_PM_at	RRAS2	related RAS viral (r-ras) oncogene homolog 2	0.0004	2.40	Normal up vs > 5 Years Off IS Tolerant
239715_PM_at	---	---	0.0004	-1.72	Normal down vs > 5 Years Off IS Tolerant
221007_PM_s_at	FIP1L1	FIP1 like 1 (<i>S. cerevisiae</i>)	0.0004	1.50	Normal up vs > 5 Years Off IS Tolerant
203750_PM_s_at	RARA	retinoic acid receptor, alpha	0.0004	-1.57	Normal down vs > 5 Years Off IS Tolerant
215151_PM_at	DOCK10	dedicator of cytokinesis 10	0.0004	2.05	Normal up vs > 5 Years Off IS Tolerant
228518_PM_at	IGHG1 /// IGHM	immunoglobulin heavy constant gamma 1 (G1m marker) /// immunoglobulin heavy constant mu	0.0004	2.75	Normal up vs > 5 Years Off IS Tolerant

1569604_PM_at	LOC100133612	similar to hCG1815312	0.0004	-1.49	Normal down vs > 5 Years Off IS Tolerant
1554919_PM_s_at	C7orf63	chromosome 7 open reading frame 63	0.0004	-2.04	Normal down vs > 5 Years Off IS Tolerant
209957_PM_s_at	NPPA	natriuretic peptide A	0.0004	-1.54	Normal down vs > 5 Years Off IS Tolerant
210031_PM_at	CD247	CD247 molecule	0.0004	2.42	Normal up vs > 5 Years Off IS Tolerant
1557733_PM_a_at	---	---	0.0004	3.89	Normal up vs > 5 Years Off IS Tolerant
225933_PM_at	CCDC137	coiled-coil domain containing 137	0.0004	1.67	Normal up vs > 5 Years Off IS Tolerant
1564790_PM_at	ST7OT2	ST7 overlapping transcript 2 (non-protein coding)	0.0004	-1.36	Normal down vs > 5 Years Off IS Tolerant
1563054_PM_at	---	---	0.0004	-1.47	Normal down vs > 5 Years Off IS Tolerant
208834_PM_x_at	RPL23A	ribosomal protein L23a	0.0004	1.14	Normal up vs > 5 Years Off IS Tolerant
235126_PM_at	NCRNA00292	non-protein coding RNA 292	0.0004	-2.59	Normal down vs > 5 Years Off IS Tolerant
227264_PM_at	---	---	0.0004	1.65	Normal up vs > 5 Years Off IS Tolerant
222463_PM_s_at	BACE1	beta-site APP-cleaving enzyme 1	0.0004	-1.42	Normal down vs > 5 Years Off IS Tolerant
1554495_PM_s_at	MTHFSD	methenyltetrahydrofolate synthetase domain containing	0.0004	-1.38	Normal down vs > 5 Years Off IS Tolerant
237205_PM_at	NCRNA00238	non-protein coding RNA 238	0.0004	-1.43	Normal down vs > 5 Years Off IS Tolerant
212453_PM_at	KIAA1279	KIAA1279	0.0004	2.07	Normal up vs > 5 Years Off IS Tolerant
223563_PM_at	GNB1L	guanine nucleotide binding protein (G protein), beta polypeptide 1-like	0.0004	-1.30	Normal down vs > 5 Years Off IS Tolerant
203664_PM_s_at	POLR2D	polymerase (RNA) II (DNA directed) polypeptide D	0.0004	2.03	Normal up vs > 5 Years Off IS Tolerant
205754_PM_at	F2	coagulation factor II (thrombin)	0.0004	-1.39	Normal down vs > 5 Years Off IS Tolerant
233744_PM_at	---	---	0.0004	-1.54	Normal down vs > 5 Years Off IS Tolerant
214567_PM_s_at	XCL1 /// XCL2	chemokine (C motif) ligand 1 /// chemokine (C motif) ligand 2	0.0004	3.13	Normal up vs > 5 Years Off IS Tolerant
205967_PM_at	HIST1H4C	histone cluster 1, H4c	0.0004	1.60	Normal up vs > 5 Years Off IS Tolerant
1554947_PM_at	ACAT1	acetyl-CoA acetyltransferase 1	0.0004	-1.44	Normal down vs > 5 Years Off IS Tolerant
212406_PM_s_at	PCMTD2	protein-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 2	0.0004	1.57	Normal up vs > 5 Years Off IS Tolerant
203622_PM_s_at	PNO1	partner of NOB1 homolog (<i>S. cerevisiae</i>)	0.0004	1.89	Normal up vs > 5 Years Off IS Tolerant

1554126_PM_at	MSRB3	methionine sulfoxide reductase B3	0.0004	-2.11	Normal down vs > 5 Years Off IS Tolerant
1560089_PM_at	LOC100289019	hypothetical LOC100289019	0.0004	1.72	Normal up vs > 5 Years Off IS Tolerant
207424_PM_at	MYF5	myogenic factor 5	0.0004	-1.38	Normal down vs > 5 Years Off IS Tolerant
235864_PM_at	MPP5	Membrane protein, palmitoylated 5 (MAGUK p55 subfamily member 5)	0.0004	-1.60	Normal down vs > 5 Years Off IS Tolerant
225547_PM_at	SNHG6	small nucleolar RNA host gene 6 (non-protein coding)	0.0004	1.34	Normal up vs > 5 Years Off IS Tolerant
204976_PM_s_at	AMMECR1	Alport syndrome, mental retardation, midface hypoplasia and elliptocytosis chromosomal	0.0004	1.99	Normal up vs > 5 Years Off IS Tolerant
236611_PM_at	LOC100506676	hypothetical LOC100506676	0.0004	1.61	Normal up vs > 5 Years Off IS Tolerant
223067_PM_at	CWC15	CWC15 spliceosome-associated protein homolog (S. cerevisiae)	0.0004	1.34	Normal up vs > 5 Years Off IS Tolerant
1555212_PM_at	OR8B8	olfactory receptor, family 8, subfamily B, member 8	0.0004	-1.47	Normal down vs > 5 Years Off IS Tolerant
241902_PM_at	MKX	mohawk homeobox	0.0004	-1.43	Normal down vs > 5 Years Off IS Tolerant
211005_PM_at	LAT /// SPNS1	linker for activation of T cells /// spinster homolog 1 (Drosophila)	0.0004	2.54	Normal up vs > 5 Years Off IS Tolerant
216348_PM_at	RPS17	ribosomal protein S17	0.0004	1.60	Normal up vs > 5 Years Off IS Tolerant
228283_PM_at	CMC1	COX assembly mitochondrial protein homolog (S. cerevisiae)	0.0004	2.38	Normal up vs > 5 Years Off IS Tolerant
223259_PM_at	ORMDL3	ORM1-like 3 (S. cerevisiae)	0.0004	2.15	Normal up vs > 5 Years Off IS Tolerant
35147_PM_at	MCF2L	MCF.2 cell line derived transforming sequence-like	0.0004	1.60	Normal up vs > 5 Years Off IS Tolerant
1558852_PM_at	---	---	0.0004	-1.38	Normal down vs > 5 Years Off IS Tolerant
239799_PM_at	C9orf130	chromosome 9 open reading frame 130	0.0004	1.83	Normal up vs > 5 Years Off IS Tolerant
226508_PM_at	PHC3	polyhomeotic homolog 3 (Drosophila)	0.0004	1.49	Normal up vs > 5 Years Off IS Tolerant
222749_PM_at	SUFU	suppressor of fused homolog (Drosophila)	0.0004	-1.48	Normal down vs > 5 Years Off IS Tolerant
214643_PM_x_at	BIN1	bridging integrator 1	0.0004	1.74	Normal up vs > 5 Years Off IS Tolerant
239337_PM_at	LOC400768	hypothetical LOC400768	0.0004	-1.33	Normal down vs > 5 Years Off IS Tolerant
239403_PM_at	CCDC120	coiled-coil domain containing 120	0.0004	1.37	Normal up vs > 5 Years Off IS Tolerant
202408_PM_s_at	PRPF31	PRP31 pre-mRNA processing factor 31 homolog (S. cerevisiae)	0.0004	1.27	Normal up vs > 5 Years Off IS Tolerant
219084_PM_at	NSD1	nuclear receptor binding SET domain protein 1	0.0004	1.53	Normal up vs > 5 Years Off IS Tolerant
200754_PM_x_at	SRSF2	serine/arginine-rich splicing factor 2	0.0004	1.24	Normal up vs > 5 Years Off IS Tolerant
225329_PM_at	FAM195B	family with sequence similarity 195, member B	0.0004	1.36	Normal up vs > 5 Years Off IS Tolerant

221488_PM_s_at	CUTA	cutA divalent cation tolerance homolog (E. coli)	0.0004	1.50	Normal up vs > 5 Years Off IS Tolerant
203789_PM_s_at	SEMA3C	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3C	0.0004	-2.30	Normal down vs > 5 Years Off IS Tolerant
209440_PM_at	PRPS1	phosphoribosyl pyrophosphate synthetase 1	0.0004	1.60	Normal up vs > 5 Years Off IS Tolerant
1560533_PM_at	---	---	0.0004	-1.61	Normal down vs > 5 Years Off IS Tolerant
221984_PM_s_at	FAM134A	family with sequence similarity 134, member A	0.0004	1.59	Normal up vs > 5 Years Off IS Tolerant
220839_PM_at	METTL5	methyltransferase like 5	0.0004	1.69	Normal up vs > 5 Years Off IS Tolerant
214219_PM_x_at	MAP4K1	mitogen-activated protein kinase kinase kinase kinase 1	0.0004	1.70	Normal up vs > 5 Years Off IS Tolerant
203684_PM_s_at	BCL2	B-cell CLL/lymphoma 2	0.0004	1.76	Normal up vs > 5 Years Off IS Tolerant
233913_PM_at	WFDC10A	WAP four-disulfide core domain 10A	0.0004	-1.28	Normal down vs > 5 Years Off IS Tolerant
227954_PM_at	ITPR1PL2	inositol 1,4,5-triphosphate receptor interacting protein-like 2	0.0004	-1.95	Normal down vs > 5 Years Off IS Tolerant
227728_PM_at	PPM1A	protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent, 1A	0.0004	1.55	Normal up vs > 5 Years Off IS Tolerant
232704_PM_s_at	LRRFIP2	leucine rich repeat (in FLII) interacting protein 2	0.0004	-1.47	Normal down vs > 5 Years Off IS Tolerant
209266_PM_s_at	SLC39A8	solute carrier family 39 (zinc transporter), member 8	0.0004	-1.50	Normal down vs > 5 Years Off IS Tolerant
208825_PM_x_at	RPL23A	ribosomal protein L23a	0.0004	1.13	Normal up vs > 5 Years Off IS Tolerant
235170_PM_at	ZNF92	zinc finger protein 92	0.0004	1.93	Normal up vs > 5 Years Off IS Tolerant
244771_PM_at	KBTBD12	kelch repeat and BTB (POZ) domain containing 12	0.0004	-1.65	Normal down vs > 5 Years Off IS Tolerant
203518_PM_at	LYST	lysosomal trafficking regulator	0.0004	-1.59	Normal down vs > 5 Years Off IS Tolerant
216842_PM_x_at	RBM1A1 /// RBM1B /// RBM1D /// RBM1E /// RBM1F /// RBM1J	RNA binding motif protein, Y-linked, family 1, member A1 /// RNA binding motif protein,	0.0004	-1.63	Normal down vs > 5 Years Off IS Tolerant
200026_PM_at	RPL34	ribosomal protein L34	0.0004	1.17	Normal up vs > 5 Years Off IS Tolerant
1565610_PM_at	---	---	0.0004	-1.34	Normal down vs > 5 Years Off IS Tolerant
227007_PM_at	TMCO4	transmembrane and coiled-coil domains 4	0.0004	1.73	Normal up vs > 5 Years Off IS Tolerant
212522_PM_at	PDE8A	phosphodiesterase 8A	0.0004	1.92	Normal up vs > 5 Years Off IS Tolerant
212140_PM_at	PDS5A	PDS5, regulator of cohesion maintenance, homolog A (S. cerevisiae)	0.0004	1.33	Normal up vs > 5 Years Off IS Tolerant

1562074_PM_a_at	UNC13C	unc-13 homolog C (C. elegans)	0.0004	-1.43	Normal down vs > 5 Years Off IS Tolerant
238807_PM_at	GAPDHP62	glyceraldehyde 3 phosphate dehydrogenase pseudogene 62	0.0004	1.98	Normal up vs > 5 Years Off IS Tolerant
229268_PM_at	FAM105B	family with sequence similarity 105, member B	0.0004	1.79	Normal up vs > 5 Years Off IS Tolerant
232527_PM_at	---	---	0.0004	1.73	Normal up vs > 5 Years Off IS Tolerant
223785_PM_at	FANCI	Fanconi anemia, complementation group I	0.0004	-1.48	Normal down vs > 5 Years Off IS Tolerant
209305_PM_s_at	GADD45B	growth arrest and DNA-damage-inducible, beta	0.0004	2.74	Normal up vs > 5 Years Off IS Tolerant
216457_PM_s_at	SF3A1	splicing factor 3a, subunit 1, 120kDa	0.0004	1.41	Normal up vs > 5 Years Off IS Tolerant
203171_PM_s_at	RRP8	ribosomal RNA processing 8, methyltransferase, homolog (yeast)	0.0004	1.58	Normal up vs > 5 Years Off IS Tolerant
223956_PM_at	TMPRSS13	transmembrane protease, serine 13	0.0004	-1.51	Normal down vs > 5 Years Off IS Tolerant
1556988_PM_s_at	CHD1L	chromodomain helicase DNA binding protein 1-like	0.0004	1.46	Normal up vs > 5 Years Off IS Tolerant
208029_PM_s_at	LAPTM4B	lysosomal protein transmembrane 4 beta	0.0004	1.70	Normal up vs > 5 Years Off IS Tolerant
234769_PM_at	DKFZp547J222	hypothetical LOC84237	0.0004	-1.37	Normal down vs > 5 Years Off IS Tolerant
209563_PM_x_at	CALM1	calmodulin 1 (phosphorylase kinase, delta)	0.0004	1.28	Normal up vs > 5 Years Off IS Tolerant
212573_PM_at	ENDOD1	endonuclease domain containing 1	0.0004	1.89	Normal up vs > 5 Years Off IS Tolerant
244881_PM_at	LMLN	leishmanolysin-like (metallopeptidase M8 family)	0.0004	1.75	Normal up vs > 5 Years Off IS Tolerant
202897_PM_at	SIRPA	signal-regulatory protein alpha	0.0004	-1.82	Normal down vs > 5 Years Off IS Tolerant
1555065_PM_x_at	USP6	ubiquitin specific peptidase 6 (Tre-2 oncogene)	0.0004	-1.71	Normal down vs > 5 Years Off IS Tolerant
213672_PM_at	MARS	methionyl-tRNA synthetase	0.0004	1.72	Normal up vs > 5 Years Off IS Tolerant
221847_PM_at	LOC100129361	hypothetical LOC100129361	0.0004	1.60	Normal up vs > 5 Years Off IS Tolerant
210241_PM_s_at	TP53TG1	TP53 target 1 (non-protein coding)	0.0004	1.70	Normal up vs > 5 Years Off IS Tolerant
213947_PM_s_at	NUP210	nucleoporin 210kDa	0.0004	1.41	Normal up vs > 5 Years Off IS Tolerant
226039_PM_at	MGAT4A	mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase, isozyme A	0.0004	2.39	Normal up vs > 5 Years Off IS Tolerant
46665_PM_at	SEMA4C	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic	0.0004	1.89	Normal up vs > 5 Years Off IS Tolerant
207050_PM_at	CACNA2D1	calcium channel, voltage-dependent, alpha 2/delta subunit 1	0.0004	-1.66	Normal down vs > 5 Years Off IS Tolerant
221049_PM_s_at	POLL	polymerase (DNA directed), lambda	0.0004	-1.44	Normal down vs > 5 Years Off IS Tolerant
212254_PM_s_at	DST	dystonin	0.0004	-1.70	Normal down vs > 5 Years Off IS Tolerant

231948_PM_s_at	UBE2F	ubiquitin-conjugating enzyme E2F (putative)	0.0004	1.55	Normal up vs > 5 Years Off IS Tolerant
208241_PM_at	NRG1	neuregulin 1	0.0004	-2.27	Normal down vs > 5 Years Off IS Tolerant
236863_PM_at	C17orf67	chromosome 17 open reading frame 67	0.0004	1.61	Normal up vs > 5 Years Off IS Tolerant
225653_PM_at	TGFBRAP1	transforming growth factor, beta receptor associated protein 1	0.0004	1.37	Normal up vs > 5 Years Off IS Tolerant
214857_PM_at	---	---	0.0004	2.02	Normal up vs > 5 Years Off IS Tolerant
1569188_PM_s_at	---	---	0.0004	-1.37	Normal down vs > 5 Years Off IS Tolerant
220872_PM_at	PRO2964	hypothetical protein PRO2964	0.0004	-1.33	Normal down vs > 5 Years Off IS Tolerant
1554489_PM_a_at	CEP70	centrosomal protein 70kDa	0.0004	1.50	Normal up vs > 5 Years Off IS Tolerant
210734_PM_x_at	MAX	MYC associated factor X	0.0004	1.86	Normal up vs > 5 Years Off IS Tolerant
219628_PM_at	ZMAT3	zinc finger, matrin-type 3	0.0004	1.82	Normal up vs > 5 Years Off IS Tolerant
1598_PM_g_at	GAS6	growth arrest-specific 6	0.0004	-1.56	Normal down vs > 5 Years Off IS Tolerant
231873_PM_at	BMPR2	bone morphogenetic protein receptor, type II (serine/threonine kinase)	0.0004	2.48	Normal up vs > 5 Years Off IS Tolerant
236740_PM_at	---	---	0.0004	-2.01	Normal down vs > 5 Years Off IS Tolerant
230140_PM_at	PTPN9	Protein tyrosine phosphatase, non-receptor type 9	0.0004	-1.52	Normal down vs > 5 Years Off IS Tolerant
205590_PM_at	RASGRP1	RAS guanyl releasing protein 1 (calcium and DAG-regulated)	0.0004	1.96	Normal up vs > 5 Years Off IS Tolerant
227420_PM_at	TNFAIP8L1	tumor necrosis factor, alpha-induced protein 8-like 1	0.0004	1.84	Normal up vs > 5 Years Off IS Tolerant
201561_PM_s_at	CLSTN1	calsyntenin 1	0.0004	1.41	Normal up vs > 5 Years Off IS Tolerant
201022_PM_s_at	DSTN	destrin (actin depolymerizing factor)	0.0004	1.46	Normal up vs > 5 Years Off IS Tolerant
208447_PM_s_at	PRPS1	phosphoribosyl pyrophosphate synthetase 1	0.0004	2.29	Normal up vs > 5 Years Off IS Tolerant
1560942_PM_at	---	---	0.0004	-1.31	Normal down vs > 5 Years Off IS Tolerant
240572_PM_s_at	LOC374443	CLR pseudogene	0.0004	1.90	Normal up vs > 5 Years Off IS Tolerant
201997_PM_s_at	SPEN	spen homolog, transcriptional regulator (Drosophila)	0.0004	1.25	Normal up vs > 5 Years Off IS Tolerant
225152_PM_at	ZNF622	zinc finger protein 622	0.0004	1.47	Normal up vs > 5 Years Off IS Tolerant
232583_PM_at	---	---	0.0004	2.19	Normal up vs > 5 Years Off IS Tolerant
233856_PM_at	---	---	0.0004	-1.57	Normal down vs > 5 Years Off IS Tolerant
1552364_PM_s_at	MSI2	musashi homolog 2 (Drosophila)	0.0004	1.57	Normal up vs > 5 Years Off IS Tolerant
229120_PM_s_at	CDC42SE1	CDC42 small effector 1	0.0004	1.34	Normal up vs > 5 Years Off IS Tolerant

232386_PM_at	VPS13C	vacuolar protein sorting 13 homolog C (<i>S. cerevisiae</i>)	0.0005	-1.84	Normal down vs > 5 Years Off IS Tolerant
216232_PM_s_at	GCN1L1	GCN1 general control of amino-acid synthesis 1-like 1 (yeast)	0.0005	1.49	Normal up vs > 5 Years Off IS Tolerant
203865_PM_s_at	ADARB1	adenosine deaminase, RNA-specific, B1	0.0005	2.11	Normal up vs > 5 Years Off IS Tolerant
214431_PM_at	GMPS	guanine monphosphate synthetase	0.0005	1.40	Normal up vs > 5 Years Off IS Tolerant
240356_PM_s_at	---	---	0.0005	-1.38	Normal down vs > 5 Years Off IS Tolerant
238950_PM_at	---	---	0.0005	-1.44	Normal down vs > 5 Years Off IS Tolerant
226947_PM_at	GUSBP1 /// GUSBP4	glucuronidase, beta pseudogene 1 /// glucuronidase, beta pseudogene 4	0.0005	1.92	Normal up vs > 5 Years Off IS Tolerant
214384_PM_s_at	DCTN2	Dynactin 2 (p50)	0.0005	-1.42	Normal down vs > 5 Years Off IS Tolerant
1556188_PM_a_at	ZNF555	zinc finger protein 555	0.0005	-1.59	Normal down vs > 5 Years Off IS Tolerant
239015_PM_at	FLJ39582	hypothetical LOC439931	0.0005	1.54	Normal up vs > 5 Years Off IS Tolerant
210691_PM_s_at	CACYBP	calcyclin binding protein	0.0005	2.13	Normal up vs > 5 Years Off IS Tolerant
200753_PM_x_at	SRSF2	serine/arginine-rich splicing factor 2	0.0005	1.48	Normal up vs > 5 Years Off IS Tolerant
204252_PM_at	CDK2	cyclin-dependent kinase 2	0.0005	1.55	Normal up vs > 5 Years Off IS Tolerant
228446_PM_at	KIAA2026	KIAA2026	0.0005	1.48	Normal up vs > 5 Years Off IS Tolerant
224770_PM_s_at	NAV1	neuron navigator 1	0.0005	-1.54	Normal down vs > 5 Years Off IS Tolerant
1570219_PM_at	LOXL4	lysyl oxidase-like 4	0.0005	-1.42	Normal down vs > 5 Years Off IS Tolerant
222270_PM_at	SMEK2	SMEK homolog 2, suppressor of mek1 (<i>Dictyostelium</i>)	0.0005	2.21	Normal up vs > 5 Years Off IS Tolerant
228002_PM_at	GTPBP4 /// IDI2	GTP binding protein 4 /// isopentenyl-diphosphate delta isomerase 2	0.0005	1.63	Normal up vs > 5 Years Off IS Tolerant
218305_PM_at	IPO4	importin 4	0.0005	1.68	Normal up vs > 5 Years Off IS Tolerant
209625_PM_at	PIGH	phosphatidylinositol glycan anchor biosynthesis, class H	0.0005	1.86	Normal up vs > 5 Years Off IS Tolerant
211743_PM_s_at	PRG2	proteoglycan 2, bone marrow (natural killer cell activator, eosinophil granule major ba	0.0005	-1.36	Normal down vs > 5 Years Off IS Tolerant
232970_PM_at	---	---	0.0005	-1.55	Normal down vs > 5 Years Off IS Tolerant
239541_PM_at	---	---	0.0005	-1.32	Normal down vs > 5 Years Off IS Tolerant
225461_PM_at	EHMT1	euchromatic histone-lysine N-methyltransferase 1	0.0005	1.66	Normal up vs > 5 Years Off IS Tolerant

241831_PM_at	---	---	0.0005	-1.39	Normal down vs > 5 Years Off IS Tolerant
224292_PM_at	TTY13	testis-specific transcript, Y-linked 13 (non-protein coding)	0.0005	-1.59	Normal down vs > 5 Years Off IS Tolerant
243969_PM_at	SLC24A4	solute carrier family 24 (sodium/potassium/calcium exchanger), member 4	0.0005	-2.15	Normal down vs > 5 Years Off IS Tolerant
230852_PM_at	STAC3	SH3 and cysteine rich domain 3	0.0005	-1.84	Normal down vs > 5 Years Off IS Tolerant
231514_PM_at	C1orf94	chromosome 1 open reading frame 94	0.0005	-1.60	Normal down vs > 5 Years Off IS Tolerant
1560080_PM_at	---	---	0.0005	-1.64	Normal down vs > 5 Years Off IS Tolerant
232727_PM_at	UCKL1	Uridine-cytidine kinase 1-like 1	0.0005	-1.36	Normal down vs > 5 Years Off IS Tolerant
222382_PM_x_at	NUP205	nucleoporin 205kDa	0.0005	1.45	Normal up vs > 5 Years Off IS Tolerant
224832_PM_at	DUSP16	dual specificity phosphatase 16	0.0005	2.06	Normal up vs > 5 Years Off IS Tolerant
1561313_PM_at	---	---	0.0005	-1.57	Normal down vs > 5 Years Off IS Tolerant
201480_PM_s_at	SUPT5H	suppressor of Ty 5 homolog (S. cerevisiae)	0.0005	1.36	Normal up vs > 5 Years Off IS Tolerant
228641_PM_at	CARD8	caspase recruitment domain family, member 8	0.0005	1.81	Normal up vs > 5 Years Off IS Tolerant
1557257_PM_at	BCL10	B-cell CLL/lymphoma 10	0.0005	2.70	Normal up vs > 5 Years Off IS Tolerant
1570119_PM_at	PDS5B	PDS5, regulator of cohesion maintenance, homolog B (S. cerevisiae)	0.0005	-1.37	Normal down vs > 5 Years Off IS Tolerant
233677_PM_at	---	---	0.0005	1.50	Normal up vs > 5 Years Off IS Tolerant
201440_PM_at	DDX23	DEAD (Asp-Glu-Ala-Asp) box polypeptide 23	0.0005	1.87	Normal up vs > 5 Years Off IS Tolerant
203012_PM_x_at	RPL23A	ribosomal protein L23a	0.0005	1.17	Normal up vs > 5 Years Off IS Tolerant
206184_PM_at	CRKL	v-crkl sarcoma virus CT10 oncogene homolog (avian)-like	0.0005	-1.38	Normal down vs > 5 Years Off IS Tolerant
203208_PM_s_at	MTFR1	mitochondrial fission regulator 1	0.0005	-1.67	Normal down vs > 5 Years Off IS Tolerant
221928_PM_at	ACACB	acetyl-CoA carboxylase beta	0.0005	1.56	Normal up vs > 5 Years Off IS Tolerant
1560631_PM_at	CALCOCO2	calcium binding and coiled-coil domain 2	0.0005	-1.75	Normal down vs > 5 Years Off IS Tolerant
1555972_PM_s_at	FBXO28	F-box protein 28	0.0005	-1.91	Normal down vs > 5 Years Off IS Tolerant
242356_PM_at	VT11A	Vesicle transport through interaction with t-SNAREs homolog 1A (yeast)	0.0005	1.89	Normal up vs > 5 Years Off IS Tolerant
218083_PM_at	PTGES2	prostaglandin E synthase 2	0.0005	-1.50	Normal down vs > 5 Years Off IS Tolerant

1556518_PM_at	---	---	0.0005	-1.29	Normal down vs > 5 Years Off IS Tolerant
228261_PM_at	MIB2	mindbomb homolog 2 (Drosophila)	0.0005	1.65	Normal up vs > 5 Years Off IS Tolerant
222765_PM_x_at	ESF1	ESF1, nucleolar pre-rRNA processing protein, homolog (S. cerevisiae)	0.0005	1.91	Normal up vs > 5 Years Off IS Tolerant
203357_PM_s_at	CAPN7	calpain 7	0.0005	2.37	Normal up vs > 5 Years Off IS Tolerant
239701_PM_at	---	---	0.0005	-1.99	Normal down vs > 5 Years Off IS Tolerant
226909_PM_at	ZNF518B	zinc finger protein 518B	0.0005	1.71	Normal up vs > 5 Years Off IS Tolerant
222676_PM_at	BRI3 /// FLJ30064	brain protein I3 /// hypothetical protein LOC644975	0.0005	-1.44	Normal down vs > 5 Years Off IS Tolerant
213035_PM_at	ANKRD28	ankyrin repeat domain 28	0.0005	1.89	Normal up vs > 5 Years Off IS Tolerant
227402_PM_s_at	UTP23	UTP23, small subunit (SSU) processome component, homolog (yeast)	0.0005	1.32	Normal up vs > 5 Years Off IS Tolerant
214306_PM_at	OPA1	optic atrophy 1 (autosomal dominant)	0.0005	-1.71	Normal down vs > 5 Years Off IS Tolerant
235418_PM_at	FAHD2A /// LOC285014	fumarylacetoacetate hydrolase domain containing 2A /// hypothetical protein LOC285014	0.0005	1.43	Normal up vs > 5 Years Off IS Tolerant
214523_PM_at	CEBPE	CCAAT/enhancer binding protein (C/EBP), epsilon	0.0005	-1.35	Normal down vs > 5 Years Off IS Tolerant
240056_PM_at	NSMAF	Neutral sphingomyelinase (N-SMase) activation associated factor	0.0005	-1.34	Normal down vs > 5 Years Off IS Tolerant
223161_PM_at	KIAA1147	KIAA1147	0.0005	1.85	Normal up vs > 5 Years Off IS Tolerant
1569013_PM_s_at	LOC96610	BMS1 homolog, ribosome assembly protein (yeast) pseudogene	0.0005	-2.30	Normal down vs > 5 Years Off IS Tolerant
233330_PM_s_at	---	---	0.0005	-3.14	Normal down vs > 5 Years Off IS Tolerant
217057_PM_s_at	GNAS	GNAS complex locus	0.0005	-1.31	Normal down vs > 5 Years Off IS Tolerant
212838_PM_at	DNMBP	dynamamin binding protein	0.0005	2.41	Normal up vs > 5 Years Off IS Tolerant
226868_PM_at	GXYLT1	glucoside xylosyltransferase 1	0.0005	-1.81	Normal down vs > 5 Years Off IS Tolerant
242832_PM_at	PER1	period homolog 1 (Drosophila)	0.0005	2.48	Normal up vs > 5 Years Off IS Tolerant
241783_PM_at	---	---	0.0005	-1.41	Normal down vs > 5 Years Off IS Tolerant
232000_PM_at	TTC39B	Tetratricopeptide repeat domain 39B	0.0005	2.60	Normal up vs > 5 Years Off IS Tolerant
1568849_PM_at	NCRNA00165	non-protein coding RNA 165	0.0005	-1.35	Normal down vs > 5 Years Off IS Tolerant

1555536_PM_at	ANTXR2	anthrax toxin receptor 2	0.0005	-1.56	Normal down vs > 5 Years Off IS Tolerant
212068_PM_s_at	BAT2L1	HLA-B associated transcript 2-like 1	0.0005	1.56	Normal up vs > 5 Years Off IS Tolerant
209710_PM_at	GATA2	GATA binding protein 2	0.0005	-1.92	Normal down vs > 5 Years Off IS Tolerant
237040_PM_at	CWF19L2	CWF19-like 2, cell cycle control (<i>S. pombe</i>)	0.0005	1.90	Normal up vs > 5 Years Off IS Tolerant
1554680_PM_s_at	KCNS2	potassium voltage-gated channel, delayed-rectifier, subfamily S, member 2	0.0005	-1.66	Normal down vs > 5 Years Off IS Tolerant
202542_PM_s_at	AIMP1	aminoacyl tRNA synthetase complex-interacting multifunctional protein 1	0.0005	1.42	Normal up vs > 5 Years Off IS Tolerant
208984_PM_x_at	RBM10	RNA binding motif protein 10	0.0005	1.33	Normal up vs > 5 Years Off IS Tolerant
1554534_PM_at	DPYD	dihydropyrimidine dehydrogenase	0.0005	-1.49	Normal down vs > 5 Years Off IS Tolerant
236539_PM_at	PTPN22	protein tyrosine phosphatase, non-receptor type 22 (lymphoid)	0.0005	1.99	Normal up vs > 5 Years Off IS Tolerant
227757_PM_at	CUL4A	cullin 4A	0.0005	2.35	Normal up vs > 5 Years Off IS Tolerant
228805_PM_at	C5orf25	chromosome 5 open reading frame 25	0.0005	2.12	Normal up vs > 5 Years Off IS Tolerant
1562166_PM_at	---	---	0.0005	-1.42	Normal down vs > 5 Years Off IS Tolerant
204377_PM_s_at	VPRBP	Vpr (HIV-1) binding protein	0.0005	1.50	Normal up vs > 5 Years Off IS Tolerant
201343_PM_at	UBE2D2	ubiquitin-conjugating enzyme E2D 2 (UBC4/5 homolog, yeast)	0.0005	1.52	Normal up vs > 5 Years Off IS Tolerant
236712_PM_at	---	---	0.0005	-1.71	Normal down vs > 5 Years Off IS Tolerant
1558948_PM_a_at	---	---	0.0005	-1.56	Normal down vs > 5 Years Off IS Tolerant
201664_PM_at	SMC4	structural maintenance of chromosomes 4	0.0005	1.49	Normal up vs > 5 Years Off IS Tolerant
201572_PM_x_at	DCTD	dCMP deaminase	0.0005	1.54	Normal up vs > 5 Years Off IS Tolerant
200749_PM_at	---	---	0.0005	2.10	Normal up vs > 5 Years Off IS Tolerant
236295_PM_s_at	NLRC3	NLR family, CARD domain containing 3	0.0005	2.08	Normal up vs > 5 Years Off IS Tolerant
217754_PM_at	DDX56	DEAD (Asp-Glu-Ala-Asp) box polypeptide 56	0.0005	1.57	Normal up vs > 5 Years Off IS Tolerant
206106_PM_at	HDAC10 /// LOC100509694 /// MAPK12	histone deacetylase 10 /// mitogen-activated protein kinase 12-like /// mitogen-activat	0.0005	-1.47	Normal down vs > 5 Years Off IS Tolerant
241839_PM_at	---	---	0.0005	-1.38	Normal down vs > 5 Years Off IS Tolerant
210561_PM_s_at	WSB1	WD repeat and SOCS box-containing 1	0.0005	-1.73	Normal down vs > 5 Years Off IS Tolerant

232903_PM_at	---	---	0.0005	-1.96	Normal down vs > 5 Years Off IS Tolerant
239580_PM_at	GUCY1A3	guanylate cyclase 1, soluble, alpha 3	0.0005	-1.86	Normal down vs > 5 Years Off IS Tolerant
207472_PM_at	RARS2	arginyl-tRNA synthetase 2, mitochondrial	0.0005	-1.31	Normal down vs > 5 Years Off IS Tolerant
224763_PM_at	RPL37	ribosomal protein L37	0.0005	1.96	Normal up vs > 5 Years Off IS Tolerant
203553_PM_s_at	MAP4K5	mitogen-activated protein kinase kinase kinase kinase 5	0.0005	1.90	Normal up vs > 5 Years Off IS Tolerant
222203_PM_s_at	RDH14	retinol dehydrogenase 14 (all-trans/9-cis/11-cis)	0.0005	1.80	Normal up vs > 5 Years Off IS Tolerant
214148_PM_at	LOC100507424	hypothetical LOC100507424	0.0005	1.62	Normal up vs > 5 Years Off IS Tolerant
204863_PM_s_at	IL6ST	interleukin 6 signal transducer (gp130, oncostatin M receptor)	0.0005	2.60	Normal up vs > 5 Years Off IS Tolerant
225477_PM_s_at	NR2C2	nuclear receptor subfamily 2, group C, member 2	0.0005	1.54	Normal up vs > 5 Years Off IS Tolerant
229796_PM_at	SIX4	SIX homeobox 4	0.0005	-2.56	Normal down vs > 5 Years Off IS Tolerant
239368_PM_at	---	---	0.0005	-1.98	Normal down vs > 5 Years Off IS Tolerant
233939_PM_at	REXO1	REX1, RNA exonuclease 1 homolog (<i>S. cerevisiae</i>)	0.0005	-1.58	Normal down vs > 5 Years Off IS Tolerant
206488_PM_s_at	CD36	CD36 molecule (thrombospondin receptor)	0.0005	-1.83	Normal down vs > 5 Years Off IS Tolerant
218236_PM_s_at	PRKD3	protein kinase D3	0.0005	1.66	Normal up vs > 5 Years Off IS Tolerant
238864_PM_at	VWA3A	von Willebrand factor A domain containing 3A	0.0005	-1.36	Normal down vs > 5 Years Off IS Tolerant
215245_PM_x_at	FMR1	fragile X mental retardation 1	0.0005	1.58	Normal up vs > 5 Years Off IS Tolerant
227690_PM_at	GABRB3	gamma-aminobutyric acid (GABA) A receptor, beta 3	0.0005	-1.36	Normal down vs > 5 Years Off IS Tolerant
227337_PM_at	ANKRD37	ankyrin repeat domain 37	0.0005	3.05	Normal up vs > 5 Years Off IS Tolerant
213613_PM_s_at	NADK	NAD kinase	0.0005	-1.44	Normal down vs > 5 Years Off IS Tolerant
232528_PM_at	---	---	0.0005	2.11	Normal up vs > 5 Years Off IS Tolerant
211813_PM_x_at	DCN	decorin	0.0005	-1.92	Normal down vs > 5 Years Off IS Tolerant
233970_PM_s_at	TRMT6	tRNA methyltransferase 6 homolog (<i>S. cerevisiae</i>)	0.0005	2.36	Normal up vs > 5 Years Off IS Tolerant
232683_PM_s_at	PARP6	poly (ADP-ribose) polymerase family, member 6	0.0005	1.41	Normal up vs > 5 Years Off IS Tolerant
229310_PM_at	KLHL29	kelch-like 29 (<i>Drosophila</i>)	0.0005	1.71	Normal up vs > 5 Years Off IS Tolerant
1554085_PM_at	DDX51	DEAD (Asp-Glu-Ala-Asp) box polypeptide 51	0.0005	1.97	Normal up vs > 5 Years Off IS Tolerant

215211_PM_at	RRN3P1	RNA polymerase I transcription factor homolog (<i>S. cerevisiae</i>) pseudogene 1	0.0005	1.98	Normal up vs > 5 Years Off IS Tolerant
206789_PM_s_at	POU2F1	POU class 2 homeobox 1	0.0005	1.45	Normal up vs > 5 Years Off IS Tolerant
1565579_PM_at	---	---	0.0005	3.27	Normal up vs > 5 Years Off IS Tolerant
234465_PM_at	EME1	essential meiotic endonuclease 1 homolog 1 (<i>S. pombe</i>)	0.0005	-1.50	Normal down vs > 5 Years Off IS Tolerant
231651_PM_at	---	---	0.0005	-1.41	Normal down vs > 5 Years Off IS Tolerant
203052_PM_at	C2	complement component 2	0.0005	-1.68	Normal down vs > 5 Years Off IS Tolerant
230779_PM_at	TNRC6B	trinucleotide repeat containing 6B	0.0005	1.65	Normal up vs > 5 Years Off IS Tolerant
201351_PM_s_at	YME1L1	YME1-like 1 (<i>S. cerevisiae</i>)	0.0005	1.51	Normal up vs > 5 Years Off IS Tolerant
239758_PM_at	---	---	0.0005	1.94	Normal up vs > 5 Years Off IS Tolerant
237270_PM_at	LOC100508368	hypothetical LOC100508368	0.0005	-1.36	Normal down vs > 5 Years Off IS Tolerant
218253_PM_s_at	LGTN	ligatin	0.0005	1.75	Normal up vs > 5 Years Off IS Tolerant
223942_PM_x_at	CHST5	carbohydrate (N-acetylglucosamine 6-O) sulfotransferase 5	0.0005	-1.44	Normal down vs > 5 Years Off IS Tolerant
218307_PM_at	RSAD1	radical S-adenosyl methionine domain containing 1	0.0005	1.66	Normal up vs > 5 Years Off IS Tolerant
231807_PM_at	KIAA1217	KIAA1217	0.0005	-1.38	Normal down vs > 5 Years Off IS Tolerant
213127_PM_s_at	MED8	mediator complex subunit 8	0.0005	-1.86	Normal down vs > 5 Years Off IS Tolerant
203068_PM_at	KLHL21	kelch-like 21 (<i>Drosophila</i>)	0.0005	1.65	Normal up vs > 5 Years Off IS Tolerant
201993_PM_x_at	HNRPDL	heterogeneous nuclear ribonucleoprotein D-like	0.0005	1.21	Normal up vs > 5 Years Off IS Tolerant
219205_PM_at	SRR	serine racemase	0.0005	-1.59	Normal down vs > 5 Years Off IS Tolerant
1555920_PM_at	CBX3	Chromobox homolog 3 (HP1 gamma homolog, <i>Drosophila</i>)	0.0005	1.69	Normal up vs > 5 Years Off IS Tolerant
229990_PM_at	LOC641467	hypothetical LOC641467	0.0005	-1.38	Normal down vs > 5 Years Off IS Tolerant
228040_PM_at	MGC21881	hypothetical locus MGC21881	0.0005	-1.92	Normal down vs > 5 Years Off IS Tolerant
227174_PM_at	WDR72	WD repeat domain 72	0.0005	-2.19	Normal down vs > 5 Years Off IS Tolerant
1557018_PM_a_at	---	---	0.0005	-1.37	Normal down vs > 5 Years Off IS Tolerant
1556985_PM_at	---	---	0.0005	-1.25	Normal down vs > 5 Years Off IS Tolerant

1569003_PM_at	TMEM49	transmembrane protein 49	0.0005	-2.23	Normal down vs > 5 Years Off IS Tolerant
202320_PM_at	GTF3C1	general transcription factor IIIC, polypeptide 1, alpha 220kDa	0.0005	1.79	Normal up vs > 5 Years Off IS Tolerant
224435_PM_at	C10orf58	chromosome 10 open reading frame 58	0.0005	1.94	Normal up vs > 5 Years Off IS Tolerant
229613_PM_at	---	---	0.0005	1.42	Normal up vs > 5 Years Off IS Tolerant
203005_PM_at	LTBR	lymphotoxin beta receptor (TNFR superfamily, member 3)	0.0005	-2.23	Normal down vs > 5 Years Off IS Tolerant
236435_PM_at	---	---	0.0005	2.23	Normal up vs > 5 Years Off IS Tolerant
243749_PM_s_at	---	---	0.0005	-1.45	Normal down vs > 5 Years Off IS Tolerant
230669_PM_at	RASA2	RAS p21 protein activator 2	0.0005	1.74	Normal up vs > 5 Years Off IS Tolerant
236075_PM_s_at	LOC100506676	hypothetical LOC100506676	0.0005	2.18	Normal up vs > 5 Years Off IS Tolerant
225787_PM_at	UBE2F	ubiquitin-conjugating enzyme E2F (putative)	0.0005	2.05	Normal up vs > 5 Years Off IS Tolerant
212373_PM_at	FEM1B	fem-1 homolog b (C. elegans)	0.0005	1.99	Normal up vs > 5 Years Off IS Tolerant
202971_PM_s_at	DYRK2	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 2	0.0005	2.12	Normal up vs > 5 Years Off IS Tolerant
226638_PM_at	ARHGAP23	Rho GTPase activating protein 23	0.0005	-1.50	Normal down vs > 5 Years Off IS Tolerant
244571_PM_s_at	TTC12	Tetratricopeptide repeat domain 12	0.0005	1.59	Normal up vs > 5 Years Off IS Tolerant
221607_PM_x_at	ACTG1	actin, gamma 1	0.0005	-1.16	Normal down vs > 5 Years Off IS Tolerant
1565583_PM_at	ZSCAN5A	zinc finger and SCAN domain containing 5A	0.0005	-1.54	Normal down vs > 5 Years Off IS Tolerant
220185_PM_at	SPTBN4	spectrin, beta, non-erythrocytic 4	0.0005	-1.42	Normal down vs > 5 Years Off IS Tolerant
219587_PM_at	TTC12	tetratricopeptide repeat domain 12	0.0005	1.64	Normal up vs > 5 Years Off IS Tolerant
1561300_PM_at	---	---	0.0005	-1.29	Normal down vs > 5 Years Off IS Tolerant
240609_PM_at	---	---	0.0005	-1.40	Normal down vs > 5 Years Off IS Tolerant
222279_PM_at	LOC285830	hypothetical LOC285830	0.0005	1.63	Normal up vs > 5 Years Off IS Tolerant
211276_PM_at	TCEAL2	transcription elongation factor A (SII)-like 2	0.0005	1.38	Normal up vs > 5 Years Off IS Tolerant
207612_PM_at	WNT8B	wingless-type MMTV integration site family, member 8B	0.0006	-1.52	Normal down vs > 5 Years Off IS Tolerant
201535_PM_at	UBL3	ubiquitin-like 3	0.0006	1.53	Normal up vs > 5 Years Off IS Tolerant
228397_PM_at	TUG1	taurine upregulated 1 (non-protein coding)	0.0006	2.50	Normal up vs > 5 Years Off IS Tolerant
214582_PM_at	PDE3B	phosphodiesterase 3B, cGMP-inhibited	0.0006	2.40	Normal up vs > 5 Years Off IS Tolerant
208993_PM_s_at	PIIG	peptidylprolyl isomerase G (cyclophilin G)	0.0006	1.29	Normal up vs > 5 Years Off IS Tolerant

228583_PM_at	LIN52	lin-52 homolog (C. elegans)	0.0006	2.09	Normal up vs > 5 Years Off IS Tolerant
240862_PM_at	RASGRP4	RAS guanyl releasing protein 4	0.0006	-1.46	Normal down vs > 5 Years Off IS Tolerant
240925_PM_at	---	---	0.0006	-1.47	Normal down vs > 5 Years Off IS Tolerant
218650_PM_at	DGCR8	DiGeorge syndrome critical region gene 8	0.0006	2.03	Normal up vs > 5 Years Off IS Tolerant
217130_PM_at	---	---	0.0006	-1.34	Normal down vs > 5 Years Off IS Tolerant
205133_PM_s_at	HSPE1	heat shock 10kDa protein 1 (chaperonin 10)	0.0006	1.75	Normal up vs > 5 Years Off IS Tolerant
216351_PM_x_at	DAZ1 /// DAZ2 /// DAZ4	deleted in azoospermia 1 /// deleted in azoospermia 2 /// deleted in azoospermia 4	0.0006	-2.67	Normal down vs > 5 Years Off IS Tolerant
240049_PM_at	---	---	0.0006	-1.31	Normal down vs > 5 Years Off IS Tolerant
203935_PM_at	ACVR1	activin A receptor, type I	0.0006	1.72	Normal up vs > 5 Years Off IS Tolerant
203723_PM_at	ITPKB	inositol 1,4,5-trisphosphate 3-kinase B	0.0006	1.88	Normal up vs > 5 Years Off IS Tolerant
208463_PM_at	GABRA4	gamma-aminobutyric acid (GABA) A receptor, alpha 4	0.0006	-1.87	Normal down vs > 5 Years Off IS Tolerant
207435_PM_s_at	SRRM2	serine/arginine repetitive matrix 2	0.0006	1.27	Normal up vs > 5 Years Off IS Tolerant
232433_PM_at	KIAA1683	KIAA1683	0.0006	-1.52	Normal down vs > 5 Years Off IS Tolerant
237157_PM_at	---	---	0.0006	-1.39	Normal down vs > 5 Years Off IS Tolerant
214518_PM_at	PDHA2	pyruvate dehydrogenase (lipoamide) alpha 2	0.0006	-1.61	Normal down vs > 5 Years Off IS Tolerant
221240_PM_s_at	B3GNT4	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 4	0.0006	-1.44	Normal down vs > 5 Years Off IS Tolerant
39854_PM_r_at	PNPLA2	patatin-like phospholipase domain containing 2	0.0006	-1.53	Normal down vs > 5 Years Off IS Tolerant
1565778_PM_at	ABCA8	ATP-binding cassette, sub-family A (ABC1), member 8	0.0006	-1.41	Normal down vs > 5 Years Off IS Tolerant
205114_PM_s_at	CCL3 /// CCL3L1 /// CCL3L3	chemokine (C-C motif) ligand 3 /// chemokine (C-C motif) ligand 3-like 1 /// chemokine	0.0006	5.18	Normal up vs > 5 Years Off IS Tolerant
229590_PM_at	RPL13	ribosomal protein L13	0.0006	1.81	Normal up vs > 5 Years Off IS Tolerant
200985_PM_s_at	CD59	CD59 molecule, complement regulatory protein	0.0006	2.07	Normal up vs > 5 Years Off IS Tolerant
38398_PM_at	MADD	MAP-kinase activating death domain	0.0006	1.42	Normal up vs > 5 Years Off IS Tolerant
223641_PM_at	---	---	0.0006	2.06	Normal up vs > 5 Years Off IS Tolerant
225898_PM_at	WDR54	WD repeat domain 54	0.0006	1.62	Normal up vs > 5 Years Off IS Tolerant
215045_PM_at	CELF3	CUGBP, Elav-like family member 3	0.0006	-1.43	Normal down vs > 5 Years Off IS Tolerant

234487_PM_at	---	---	0.0006	-1.60	Normal down vs > 5 Years Off IS Tolerant
219451_PM_at	MSRB2	methionine sulfoxide reductase B2	0.0006	-1.90	Normal down vs > 5 Years Off IS Tolerant
203591_PM_s_at	CSF3R	colony stimulating factor 3 receptor (granulocyte)	0.0006	-1.88	Normal down vs > 5 Years Off IS Tolerant
231888_PM_at	---	---	0.0006	-1.61	Normal down vs > 5 Years Off IS Tolerant
230354_PM_at	---	---	0.0006	-1.93	Normal down vs > 5 Years Off IS Tolerant
1568612_PM_at	GABRG2	gamma-aminobutyric acid (GABA) A receptor, gamma 2	0.0006	-1.31	Normal down vs > 5 Years Off IS Tolerant
230011_PM_at	MEI1	meiosis inhibitor 1	0.0006	1.76	Normal up vs > 5 Years Off IS Tolerant
225492_PM_at	TMEM33	transmembrane protein 33	0.0006	-1.44	Normal down vs > 5 Years Off IS Tolerant
236958_PM_at	---	---	0.0006	1.96	Normal up vs > 5 Years Off IS Tolerant
201108_PM_s_at	THBS1	thrombospondin 1	0.0006	5.55	Normal up vs > 5 Years Off IS Tolerant
1553672_PM_at	ENAH	enabled homolog (Drosophila)	0.0006	-1.46	Normal down vs > 5 Years Off IS Tolerant
224767_PM_at	RPL37	ribosomal protein L37	0.0006	1.72	Normal up vs > 5 Years Off IS Tolerant
1566550_PM_at	---	---	0.0006	-1.44	Normal down vs > 5 Years Off IS Tolerant
218100_PM_s_at	IFT57	intraflagellar transport 57 homolog (Chlamydomonas)	0.0006	1.82	Normal up vs > 5 Years Off IS Tolerant
230123_PM_at	---	---	0.0006	1.79	Normal up vs > 5 Years Off IS Tolerant
244008_PM_at	PARP8	poly (ADP-ribose) polymerase family, member 8	0.0006	1.93	Normal up vs > 5 Years Off IS Tolerant
209902_PM_at	ATR	ataxia telangiectasia and Rad3 related	0.0006	1.81	Normal up vs > 5 Years Off IS Tolerant
242411_PM_at	ARL10	ADP-ribosylation factor-like 10	0.0006	-1.29	Normal down vs > 5 Years Off IS Tolerant
227867_PM_at	C2orf89	chromosome 2 open reading frame 89	0.0006	3.70	Normal up vs > 5 Years Off IS Tolerant
219928_PM_s_at	CABYR	calcium binding tyrosine-(Y)-phosphorylation regulated	0.0006	-1.37	Normal down vs > 5 Years Off IS Tolerant
218298_PM_s_at	C14orf159	chromosome 14 open reading frame 159	0.0006	-1.41	Normal down vs > 5 Years Off IS Tolerant
212696_PM_s_at	RNF4	ring finger protein 4	0.0006	1.36	Normal up vs > 5 Years Off IS Tolerant
1563590_PM_at	---	---	0.0006	-1.35	Normal down vs > 5 Years Off IS Tolerant
1554149_PM_at	CLDND1	claudin domain containing 1	0.0006	1.45	Normal up vs > 5 Years Off IS Tolerant
200845_PM_s_at	PRDX6	peroxiredoxin 6	0.0006	1.33	Normal up vs > 5 Years Off IS Tolerant

209711_PM_at	SLC35D1	solute carrier family 35 (UDP-glucuronic acid/UDP-N-acetylgalactosamine dual transporte	0.0006	1.81	Normal up vs > 5 Years Off IS Tolerant
219216_PM_at	ETAA1	Ewing tumor-associated antigen 1	0.0006	1.89	Normal up vs > 5 Years Off IS Tolerant
216326_PM_s_at	HDAC3	histone deacetylase 3	0.0006	1.47	Normal up vs > 5 Years Off IS Tolerant
210018_PM_x_at	MALT1	mucosa associated lymphoid tissue lymphoma translocation gene 1	0.0006	1.95	Normal up vs > 5 Years Off IS Tolerant
212562_PM_s_at	CTSZ	Cathepsin Z	0.0006	-1.47	Normal down vs > 5 Years Off IS Tolerant
1570177_PM_at	---	---	0.0006	-1.56	Normal down vs > 5 Years Off IS Tolerant
215888_PM_at	PDS5B	PDS5, regulator of cohesion maintenance, homolog B (S. cerevisiae)	0.0006	1.94	Normal up vs > 5 Years Off IS Tolerant
214675_PM_at	NUP188	nucleoporin 188kDa	0.0006	-1.39	Normal down vs > 5 Years Off IS Tolerant
219565_PM_at	CYP20A1	cytochrome P450, family 20, subfamily A, polypeptide 1	0.0006	1.49	Normal up vs > 5 Years Off IS Tolerant
202560_PM_s_at	C1orf77	chromosome 1 open reading frame 77	0.0006	1.54	Normal up vs > 5 Years Off IS Tolerant
219015_PM_s_at	ALG13	asparagine-linked glycosylation 13 homolog (S. cerevisiae)	0.0006	2.71	Normal up vs > 5 Years Off IS Tolerant
208828_PM_at	POLE3	polymerase (DNA directed), epsilon 3 (p17 subunit)	0.0006	1.49	Normal up vs > 5 Years Off IS Tolerant
206181_PM_at	SLAMF1	signaling lymphocytic activation molecule family member 1	0.0006	2.16	Normal up vs > 5 Years Off IS Tolerant
1570516_PM_s_at	OR51B5	olfactory receptor, family 51, subfamily B, member 5	0.0006	-1.56	Normal down vs > 5 Years Off IS Tolerant
201584_PM_s_at	DDX39	DEAD (Asp-Glu-Ala-Asp) box polypeptide 39	0.0006	1.43	Normal up vs > 5 Years Off IS Tolerant
1563241_PM_at	---	---	0.0006	-1.39	Normal down vs > 5 Years Off IS Tolerant
226030_PM_at	ACADSB	acyl-CoA dehydrogenase, short/branched chain	0.0006	1.82	Normal up vs > 5 Years Off IS Tolerant
230912_PM_at	ASPDH	aspartate dehydrogenase domain containing	0.0006	-1.63	Normal down vs > 5 Years Off IS Tolerant
216403_PM_at	SP3P	Sp3 transcription factor pseudogene	0.0006	-1.27	Normal down vs > 5 Years Off IS Tolerant
202803_PM_s_at	ITGB2	integrin, beta 2 (complement component 3 receptor 3 and 4 subunit)	0.0006	-1.33	Normal down vs > 5 Years Off IS Tolerant
237009_PM_at	---	---	0.0006	3.06	Normal up vs > 5 Years Off IS Tolerant
244798_PM_at	LOC100507492	hypothetical LOC100507492	0.0006	2.27	Normal up vs > 5 Years Off IS Tolerant
230415_PM_at	---	---	0.0006	1.88	Normal up vs > 5 Years Off IS Tolerant
203582_PM_s_at	RAB4A	RAB4A, member RAS oncogene family	0.0006	2.08	Normal up vs > 5 Years Off IS Tolerant
203264_PM_s_at	ARHGEF9	Cdc42 guanine nucleotide exchange factor (GEF) 9	0.0006	1.60	Normal up vs > 5 Years Off IS Tolerant

236228_PM_at	LOC100130744	hypothetical LOC100130744	0.0006	1.61	Normal up vs > 5 Years Off IS Tolerant
214598_PM_at	CLDN8	claudin 8	0.0006	-1.81	Normal down vs > 5 Years Off IS Tolerant
240767_PM_x_at	LOC100286938	hypothetical LOC100286938	0.0006	-1.45	Normal down vs > 5 Years Off IS Tolerant
209014_PM_at	MAGED1	melanoma antigen family D, 1	0.0006	1.62	Normal up vs > 5 Years Off IS Tolerant
232244_PM_at	KIAA1161	KIAA1161	0.0006	-1.80	Normal down vs > 5 Years Off IS Tolerant
1556989_PM_at	---	---	0.0006	-1.39	Normal down vs > 5 Years Off IS Tolerant
218067_PM_s_at	ARGLU1	arginine and glutamate rich 1	0.0006	1.33	Normal up vs > 5 Years Off IS Tolerant
224953_PM_at	YIPF5	Yip1 domain family, member 5	0.0006	-1.93	Normal down vs > 5 Years Off IS Tolerant
232661_PM_s_at	C7orf64	chromosome 7 open reading frame 64	0.0006	1.86	Normal up vs > 5 Years Off IS Tolerant
223218_PM_s_at	NFKBIZ	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta	0.0006	1.66	Normal up vs > 5 Years Off IS Tolerant
235154_PM_at	TAF3	TAF3 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 140kDa	0.0006	1.50	Normal up vs > 5 Years Off IS Tolerant
205070_PM_at	ING3	inhibitor of growth family, member 3	0.0006	1.53	Normal up vs > 5 Years Off IS Tolerant
221992_PM_at	LOC100507607 /// LOC100507666 /// LOC728734 /// LOC728741 /// NPIPL2 /// NPIPL3	nuclear pore complex-interacting protein-like 3-like /// nuclear pore complex-interacti	0.0006	2.87	Normal up vs > 5 Years Off IS Tolerant
1556593_PM_s_at	---	---	0.0006	-1.68	Normal down vs > 5 Years Off IS Tolerant
221112_PM_at	IL1RAPL2	interleukin 1 receptor accessory protein-like 2	0.0006	-1.30	Normal down vs > 5 Years Off IS Tolerant
238914_PM_at	DCC	deleted in colorectal carcinoma	0.0006	-1.72	Normal down vs > 5 Years Off IS Tolerant
1568834_PM_s_at	CCDC90B	coiled-coil domain containing 90B	0.0006	1.85	Normal up vs > 5 Years Off IS Tolerant
1552952_PM_at	RBMV2FP	RNA binding motif protein, Y-linked, family 2, member F pseudogene	0.0006	-1.72	Normal down vs > 5 Years Off IS Tolerant
219961_PM_s_at	PLK1S1	polo-like kinase 1 substrate 1	0.0006	1.81	Normal up vs > 5 Years Off IS Tolerant
212430_PM_at	RBM38	RNA binding motif protein 38	0.0006	2.54	Normal up vs > 5 Years Off IS Tolerant
228170_PM_at	OLIG1	oligodendrocyte transcription factor 1	0.0006	-2.80	Normal down vs > 5 Years Off IS Tolerant
225314_PM_at	OClAD2	OClA domain containing 2	0.0006	2.52	Normal up vs > 5 Years Off IS Tolerant

1557523_PM_at	ATP6AP1L	ATPase, H+ transporting, lysosomal accessory protein 1-like	0.0006	-1.67	Normal down vs > 5 Years Off IS Tolerant
213776_PM_at	LOC157562	hypothetical protein LOC157562	0.0006	-1.52	Normal down vs > 5 Years Off IS Tolerant
202022_PM_at	ALDOC	aldolase C, fructose-bisphosphate	0.0006	1.70	Normal up vs > 5 Years Off IS Tolerant
221518_PM_s_at	USP47	ubiquitin specific peptidase 47	0.0006	1.33	Normal up vs > 5 Years Off IS Tolerant
1552722_PM_at	ARPP21	cAMP-regulated phosphoprotein, 21kDa	0.0006	-1.53	Normal down vs > 5 Years Off IS Tolerant
228552_PM_s_at	ISYNA1	inositol-3-phosphate synthase 1	0.0006	-1.32	Normal down vs > 5 Years Off IS Tolerant
201367_PM_s_at	ZFP36L2	zinc finger protein 36, C3H type-like 2	0.0006	1.91	Normal up vs > 5 Years Off IS Tolerant
205476_PM_at	CCL20	chemokine (C-C motif) ligand 20	0.0006	6.90	Normal up vs > 5 Years Off IS Tolerant
213592_PM_at	APLNR	apelin receptor	0.0006	-1.44	Normal down vs > 5 Years Off IS Tolerant
213511_PM_s_at	MTMR1	myotubularin related protein 1	0.0006	1.43	Normal up vs > 5 Years Off IS Tolerant
204070_PM_at	RARRES3	retinoic acid receptor responder (tazarotene induced) 3	0.0006	1.73	Normal up vs > 5 Years Off IS Tolerant
65086_PM_at	YIPF2	Yip1 domain family, member 2	0.0006	-1.40	Normal down vs > 5 Years Off IS Tolerant
238192_PM_at	---	---	0.0006	1.44	Normal up vs > 5 Years Off IS Tolerant
225389_PM_at	BTBD6	BTB (POZ) domain containing 6	0.0006	1.34	Normal up vs > 5 Years Off IS Tolerant
218447_PM_at	C16orf61	chromosome 16 open reading frame 61	0.0006	1.51	Normal up vs > 5 Years Off IS Tolerant
200875_PM_s_at	NOP56	NOP56 ribonucleoprotein homolog (yeast)	0.0006	1.37	Normal up vs > 5 Years Off IS Tolerant
227032_PM_at	PLXNA2	plexin A2	0.0006	-1.39	Normal down vs > 5 Years Off IS Tolerant
236168_PM_at	---	---	0.0006	2.51	Normal up vs > 5 Years Off IS Tolerant
1561133_PM_at	---	---	0.0006	-1.39	Normal down vs > 5 Years Off IS Tolerant
202792_PM_s_at	PPP6R2	protein phosphatase 6, regulatory subunit 2	0.0006	1.58	Normal up vs > 5 Years Off IS Tolerant
240844_PM_at	---	---	0.0006	-1.38	Normal down vs > 5 Years Off IS Tolerant
1554050_PM_at	SMPDL3B	sphingomyelin phosphodiesterase, acid-like 3B	0.0007	-1.36	Normal down vs > 5 Years Off IS Tolerant
232909_PM_s_at	BPTF	bromodomain PHD finger transcription factor	0.0007	1.47	Normal up vs > 5 Years Off IS Tolerant
216145_PM_at	---	---	0.0007	-1.27	Normal down vs > 5 Years Off IS Tolerant
240556_PM_at	DCN	Decorin	0.0007	-2.20	Normal down vs > 5 Years Off IS Tolerant

1557161_PM_at	LOC100132735	hypothetical protein LOC100132735	0.0007	-1.62	Normal down vs > 5 Years Off IS Tolerant
204327_PM_s_at	ZNF202	zinc finger protein 202	0.0007	1.65	Normal up vs > 5 Years Off IS Tolerant
226852_PM_at	MTA3	metastasis associated 1 family, member 3	0.0007	1.69	Normal up vs > 5 Years Off IS Tolerant
230741_PM_at	---	---	0.0007	-1.73	Normal down vs > 5 Years Off IS Tolerant
201151_PM_s_at	MBNL1	muscleblind-like (Drosophila)	0.0007	1.61	Normal up vs > 5 Years Off IS Tolerant
223058_PM_at	FAM107B	family with sequence similarity 107, member B	0.0007	1.44	Normal up vs > 5 Years Off IS Tolerant
223287_PM_s_at	FOXP1	forkhead box P1	0.0007	1.67	Normal up vs > 5 Years Off IS Tolerant
223592_PM_s_at	RNF135	ring finger protein 135	0.0007	-1.48	Normal down vs > 5 Years Off IS Tolerant
214470_PM_at	KLRB1	killer cell lectin-like receptor subfamily B, member 1	0.0007	2.48	Normal up vs > 5 Years Off IS Tolerant
202496_PM_at	EDC4	enhancer of mRNA decapping 4	0.0007	1.43	Normal up vs > 5 Years Off IS Tolerant
218428_PM_s_at	REV1	REV1 homolog (S. cerevisiae)	0.0007	1.42	Normal up vs > 5 Years Off IS Tolerant
213982_PM_s_at	RABGAP1L	RAB GTPase activating protein 1-like	0.0007	1.49	Normal up vs > 5 Years Off IS Tolerant
48531_PM_at	TNIP2	TNFAIP3 interacting protein 2	0.0007	1.29	Normal up vs > 5 Years Off IS Tolerant
203787_PM_at	SSBP2	single-stranded DNA binding protein 2	0.0007	1.74	Normal up vs > 5 Years Off IS Tolerant
217451_PM_at	---	---	0.0007	-1.32	Normal down vs > 5 Years Off IS Tolerant
239718_PM_at	---	---	0.0007	-1.73	Normal down vs > 5 Years Off IS Tolerant
228026_PM_at	SIKE1	suppressor of IKBKE 1	0.0007	2.09	Normal up vs > 5 Years Off IS Tolerant
212301_PM_at	RTF1	Rtf1, Paf1/RNA polymerase II complex component, homolog (S. cerevisiae)	0.0007	1.41	Normal up vs > 5 Years Off IS Tolerant
223269_PM_at	POLR3GL	polymerase (RNA) III (DNA directed) polypeptide G (32kD)-like	0.0007	1.50	Normal up vs > 5 Years Off IS Tolerant
1552665_PM_at	LOC84989	hypothetical LOC84989	0.0007	-1.34	Normal down vs > 5 Years Off IS Tolerant
1565879_PM_at	---	---	0.0007	-1.71	Normal down vs > 5 Years Off IS Tolerant
224585_PM_x_at	ACTG1	actin, gamma 1	0.0007	-1.16	Normal down vs > 5 Years Off IS Tolerant
217707_PM_x_at	SMARCA2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a	0.0007	1.45	Normal up vs > 5 Years Off IS Tolerant
228300_PM_at	CCDC103	coiled-coil domain containing 103	0.0007	-1.40	Normal down vs > 5 Years Off IS Tolerant
213567_PM_at	KPNA4	karyopherin alpha 4 (importin alpha 3)	0.0007	1.91	Normal up vs > 5 Years Off IS Tolerant
224787_PM_s_at	RAB18	RAB18, member RAS oncogene family	0.0007	1.80	Normal up vs > 5 Years Off IS Tolerant
206366_PM_x_at	XCL1	chemokine (C motif) ligand 1	0.0007	2.70	Normal up vs > 5 Years Off IS Tolerant

214935_PM_at	IL4I1 /// NUP62 /// SIGLEC11	interleukin 4 induced 1 /// nucleoporin 62kDa /// sialic acid binding Ig-like lectin 11	0.0007	-1.38	Normal down vs > 5 Years Off IS Tolerant
235906_PM_at	TAF10	TAF10 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 30kDa	0.0007	1.48	Normal up vs > 5 Years Off IS Tolerant
215184_PM_at	DAPK2	death-associated protein kinase 2	0.0007	-1.42	Normal down vs > 5 Years Off IS Tolerant
222612_PM_at	PSPC1	Paraspeckle component 1	0.0007	1.64	Normal up vs > 5 Years Off IS Tolerant
242439_PM_s_at	ASXL1	additional sex combs like 1 (Drosophila)	0.0007	1.73	Normal up vs > 5 Years Off IS Tolerant
214700_PM_x_at	RIF1	RAP1 interacting factor homolog (yeast)	0.0007	1.68	Normal up vs > 5 Years Off IS Tolerant
243066_PM_at	NPL	N-acetylneuraminatase pyruvate lyase (dihydrodipicolinate synthase)	0.0007	-1.37	Normal down vs > 5 Years Off IS Tolerant
213350_PM_at	RPS11	Ribosomal protein S11	0.0007	-3.16	Normal down vs > 5 Years Off IS Tolerant
1556059_PM_s_at	SPEN	spen homolog, transcriptional regulator (Drosophila)	0.0007	1.65	Normal up vs > 5 Years Off IS Tolerant
204029_PM_at	CELSR2	cadherin, EGF LAG seven-pass G-type receptor 2 (flamingo homolog, Drosophila)	0.0007	1.37	Normal up vs > 5 Years Off IS Tolerant
221591_PM_s_at	FAM64A	family with sequence similarity 64, member A	0.0007	-1.44	Normal down vs > 5 Years Off IS Tolerant
218532_PM_s_at	FAM134B	family with sequence similarity 134, member B	0.0007	2.17	Normal up vs > 5 Years Off IS Tolerant
206861_PM_s_at	CGGBP1	CGG triplet repeat binding protein 1	0.0007	1.38	Normal up vs > 5 Years Off IS Tolerant
1556333_PM_at	---	---	0.0007	-1.45	Normal down vs > 5 Years Off IS Tolerant
203329_PM_at	PTPRM	protein tyrosine phosphatase, receptor type, M	0.0007	2.31	Normal up vs > 5 Years Off IS Tolerant
204061_PM_at	PRKX	protein kinase, X-linked	0.0007	1.88	Normal up vs > 5 Years Off IS Tolerant
214966_PM_at	GRIK5	glutamate receptor, ionotropic, kainate 5	0.0007	-1.35	Normal down vs > 5 Years Off IS Tolerant
1566207_PM_at	TCEA1	transcription elongation factor A (SII), 1	0.0007	1.42	Normal up vs > 5 Years Off IS Tolerant
240193_PM_at	---	---	0.0007	-1.34	Normal down vs > 5 Years Off IS Tolerant
210998_PM_s_at	HGF	hepatocyte growth factor (hepapoietin A; scatter factor)	0.0007	-1.49	Normal down vs > 5 Years Off IS Tolerant
241471_PM_at	---	---	0.0007	-1.59	Normal down vs > 5 Years Off IS Tolerant
1557263_PM_s_at	---	---	0.0007	1.73	Normal up vs > 5 Years Off IS Tolerant
225067_PM_at	ULK3	unc-51-like kinase 3 (C. elegans)	0.0007	1.49	Normal up vs > 5 Years Off IS Tolerant
209068_PM_at	HNRPDL	heterogeneous nuclear ribonucleoprotein D-like	0.0007	1.83	Normal up vs > 5 Years Off IS Tolerant
208735_PM_s_at	CTDSP2	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 2	0.0007	1.74	Normal up vs > 5 Years Off IS Tolerant

200614_PM_at	CLTC	clathrin, heavy chain (Hc)	0.0007	-1.45	Normal down vs > 5 Years Off IS Tolerant
212459_PM_x_at	SUCLG2	succinate-CoA ligase, GDP-forming, beta subunit	0.0007	1.70	Normal up vs > 5 Years Off IS Tolerant
1555350_PM_at	PPHLN1	periphilin 1	0.0007	1.42	Normal up vs > 5 Years Off IS Tolerant
216304_PM_x_at	YME1L1	YME1-like 1 (<i>S. cerevisiae</i>)	0.0007	1.39	Normal up vs > 5 Years Off IS Tolerant
1558122_PM_s_at	CSRNP3	cysteine-serine-rich nuclear protein 3	0.0007	-1.73	Normal down vs > 5 Years Off IS Tolerant
213105_PM_s_at	C16orf42	chromosome 16 open reading frame 42	0.0007	1.61	Normal up vs > 5 Years Off IS Tolerant
1565918_PM_a_at	---	---	0.0007	-1.38	Normal down vs > 5 Years Off IS Tolerant
1560062_PM_at	SLC29A2	Solute carrier family 29 (nucleoside transporters), member 2	0.0007	-1.38	Normal down vs > 5 Years Off IS Tolerant
236743_PM_at	AGPAT6	1-acylglycerol-3-phosphate O-acyltransferase 6 (lysophosphatidic acid acyltransferase,	0.0007	1.60	Normal up vs > 5 Years Off IS Tolerant
226624_PM_at	---	---	0.0007	1.44	Normal up vs > 5 Years Off IS Tolerant
216218_PM_s_at	PLCL2	phospholipase C-like 2	0.0007	1.62	Normal up vs > 5 Years Off IS Tolerant
241893_PM_at	---	---	0.0007	2.31	Normal up vs > 5 Years Off IS Tolerant
222887_PM_s_at	TMEM127	transmembrane protein 127	0.0007	-1.56	Normal down vs > 5 Years Off IS Tolerant
212952_PM_at	LOC100507328	hypothetical LOC100507328	0.0007	-1.80	Normal down vs > 5 Years Off IS Tolerant
227514_PM_at	ITPRIPL2	inositol 1,4,5-triphosphate receptor interacting protein-like 2	0.0007	-2.54	Normal down vs > 5 Years Off IS Tolerant
228932_PM_at	---	---	0.0007	1.85	Normal up vs > 5 Years Off IS Tolerant
213236_PM_at	SASH1	SAM and SH3 domain containing 1	0.0007	-2.32	Normal down vs > 5 Years Off IS Tolerant
1565860_PM_at	---	---	0.0007	-1.34	Normal down vs > 5 Years Off IS Tolerant
1561339_PM_at	---	---	0.0007	-1.39	Normal down vs > 5 Years Off IS Tolerant
51774_PM_s_at	UBE2D4	ubiquitin-conjugating enzyme E2D 4 (putative)	0.0007	-1.51	Normal down vs > 5 Years Off IS Tolerant
227173_PM_s_at	BACH2	BTB and CNC homology 1, basic leucine zipper transcription factor 2	0.0007	2.66	Normal up vs > 5 Years Off IS Tolerant
1565669_PM_at	LOC100289071	Similar to hCG2036912	0.0007	-1.52	Normal down vs > 5 Years Off IS Tolerant
1569631_PM_at	NMNAT1	nicotinamide nucleotide adenyltransferase 1	0.0007	-1.48	Normal down vs > 5 Years Off IS Tolerant
215359_PM_x_at	ZNF44	zinc finger protein 44	0.0007	1.61	Normal up vs > 5 Years Off IS Tolerant

218443_PM_s_at	DAZAP1	DAZ associated protein 1	0.0007	1.37	Normal up vs > 5 Years Off IS Tolerant
232700_PM_at	---	---	0.0007	1.54	Normal up vs > 5 Years Off IS Tolerant
1559190_PM_s_at	RDH13	retinol dehydrogenase 13 (all-trans/9-cis)	0.0007	2.00	Normal up vs > 5 Years Off IS Tolerant
233019_PM_at	CNOT7	CCR4-NOT transcription complex, subunit 7	0.0007	2.16	Normal up vs > 5 Years Off IS Tolerant
206544_PM_x_at	SMARCA2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a	0.0007	1.61	Normal up vs > 5 Years Off IS Tolerant
1556409_PM_a_at	---	---	0.0007	-1.44	Normal down vs > 5 Years Off IS Tolerant
241093_PM_at	---	---	0.0007	2.39	Normal up vs > 5 Years Off IS Tolerant
202616_PM_s_at	MECP2	methyl CpG binding protein 2 (Rett syndrome)	0.0007	1.62	Normal up vs > 5 Years Off IS Tolerant
1560826_PM_at	---	---	0.0007	-1.57	Normal down vs > 5 Years Off IS Tolerant
218228_PM_s_at	TNKS2	tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase 2	0.0007	1.98	Normal up vs > 5 Years Off IS Tolerant
238012_PM_at	DPP7	Dipeptidyl-peptidase 7	0.0007	1.85	Normal up vs > 5 Years Off IS Tolerant
235754_PM_at	HFE	hemochromatosis	0.0007	-1.59	Normal down vs > 5 Years Off IS Tolerant
226265_PM_at	QSER1	glutamine and serine rich 1	0.0007	-1.86	Normal down vs > 5 Years Off IS Tolerant
235993_PM_at	PSMF1	proteasome (prosome, macropain) inhibitor subunit 1 (PI31)	0.0007	1.93	Normal up vs > 5 Years Off IS Tolerant
215009_PM_s_at	LOC100499177	hypothetical LOC100499177	0.0007	2.10	Normal up vs > 5 Years Off IS Tolerant
205004_PM_at	NKRF	NFKB repressing factor	0.0007	1.51	Normal up vs > 5 Years Off IS Tolerant
227947_PM_at	PHACTR2	phosphatase and actin regulator 2	0.0007	1.74	Normal up vs > 5 Years Off IS Tolerant
236358_PM_at	---	---	0.0007	1.73	Normal up vs > 5 Years Off IS Tolerant
238307_PM_at	---	---	0.0007	-1.39	Normal down vs > 5 Years Off IS Tolerant
215846_PM_at	---	---	0.0007	1.57	Normal up vs > 5 Years Off IS Tolerant
237601_PM_at	LOC100507277	hypothetical LOC100507277	0.0007	-1.46	Normal down vs > 5 Years Off IS Tolerant
235526_PM_at	SOX6	SRY (sex determining region Y)-box 6	0.0007	1.66	Normal up vs > 5 Years Off IS Tolerant
202764_PM_at	STIM1	stromal interaction molecule 1	0.0007	1.46	Normal up vs > 5 Years Off IS Tolerant
214933_PM_at	CACNA1A	calcium channel, voltage-dependent, P/Q type, alpha 1A subunit	0.0007	-2.15	Normal down vs > 5 Years Off IS Tolerant
209570_PM_s_at	D4S234E	DNA segment on chromosome 4 (unique) 234 expressed sequence	0.0007	2.55	Normal up vs > 5 Years Off IS Tolerant
202183_PM_s_at	KIF22	kinesin family member 22	0.0007	1.53	Normal up vs > 5 Years Off IS Tolerant
238318_PM_at	---	---	0.0007	-1.75	Normal down vs > 5 Years Off IS Tolerant

227146_PM_at	QSOX2	quiescin Q6 sulfhydryl oxidase 2	0.0007	1.67	Normal up vs > 5 Years Off IS Tolerant
205181_PM_at	ZNF193	zinc finger protein 193	0.0007	-1.54	Normal down vs > 5 Years Off IS Tolerant
235786_PM_at	---	---	0.0007	1.88	Normal up vs > 5 Years Off IS Tolerant
239038_PM_at	C1orf52	chromosome 1 open reading frame 52	0.0007	1.67	Normal up vs > 5 Years Off IS Tolerant
202881_PM_x_at	---	---	0.0007	-1.51	Normal down vs > 5 Years Off IS Tolerant
203896_PM_s_at	PLCB4	phospholipase C, beta 4	0.0007	-1.92	Normal down vs > 5 Years Off IS Tolerant
208730_PM_x_at	RAB2A	RAB2A, member RAS oncogene family	0.0007	-1.82	Normal down vs > 5 Years Off IS Tolerant
241991_PM_at	---	---	0.0007	1.95	Normal up vs > 5 Years Off IS Tolerant
226670_PM_s_at	PABPC1L	poly(A) binding protein, cytoplasmic 1-like	0.0007	1.81	Normal up vs > 5 Years Off IS Tolerant
209588_PM_at	EPHB2	EPH receptor B2	0.0008	-1.49	Normal down vs > 5 Years Off IS Tolerant
213170_PM_at	GPX7	glutathione peroxidase 7	0.0008	2.01	Normal up vs > 5 Years Off IS Tolerant
222747_PM_s_at	SCML1	sex comb on midleg-like 1 (Drosophila)	0.0008	2.19	Normal up vs > 5 Years Off IS Tolerant
238311_PM_at	---	---	0.0008	1.90	Normal up vs > 5 Years Off IS Tolerant
202634_PM_at	POLR2K	polymerase (RNA) II (DNA directed) polypeptide K, 7.0kDa	0.0008	1.70	Normal up vs > 5 Years Off IS Tolerant
229412_PM_at	TAF8	TAF8 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 43kDa	0.0008	1.83	Normal up vs > 5 Years Off IS Tolerant
203675_PM_at	NUCB2	nucleobindin 2	0.0008	1.89	Normal up vs > 5 Years Off IS Tolerant
227990_PM_at	SLU7	SLU7 splicing factor homolog (S. cerevisiae)	0.0008	1.49	Normal up vs > 5 Years Off IS Tolerant
234228_PM_at	---	---	0.0008	-1.55	Normal down vs > 5 Years Off IS Tolerant
1554847_PM_at	ATP6V1B1	ATPase, H+ transporting, lysosomal 56/58kDa, V1 subunit B1	0.0008	-1.32	Normal down vs > 5 Years Off IS Tolerant
1566882_PM_at	---	---	0.0008	-1.29	Normal down vs > 5 Years Off IS Tolerant
230304_PM_at	---	---	0.0008	2.25	Normal up vs > 5 Years Off IS Tolerant
236923_PM_x_at	---	---	0.0008	-1.96	Normal down vs > 5 Years Off IS Tolerant
225392_PM_at	GFM2	G elongation factor, mitochondrial 2	0.0008	1.58	Normal up vs > 5 Years Off IS Tolerant
221560_PM_at	MARK4	MAP/microtubule affinity-regulating kinase 4	0.0008	-1.39	Normal down vs > 5 Years Off IS Tolerant
207471_PM_at	---	---	0.0008	-1.51	Normal down vs > 5 Years Off IS Tolerant

220061_PM_at	ACSM5	acyl-CoA synthetase medium-chain family member 5	0.0008	-1.67	Normal down vs > 5 Years Off IS Tolerant
200839_PM_s_at	CTSB	cathepsin B	0.0008	-1.51	Normal down vs > 5 Years Off IS Tolerant
201727_PM_s_at	ELAVL1	ELAV (embryonic lethal, abnormal vision, Drosophila)-like 1 (Hu antigen R)	0.0008	1.98	Normal up vs > 5 Years Off IS Tolerant
225740_PM_x_at	MDM4	Mdm4 p53 binding protein homolog (mouse)	0.0008	1.39	Normal up vs > 5 Years Off IS Tolerant
224438_PM_at	---	---	0.0008	-1.34	Normal down vs > 5 Years Off IS Tolerant
232879_PM_at	CRTC3	CREB regulated transcription coactivator 3	0.0008	2.06	Normal up vs > 5 Years Off IS Tolerant
209961_PM_s_at	HGF	hepatocyte growth factor (hepapoietin A; scatter factor)	0.0008	-1.52	Normal down vs > 5 Years Off IS Tolerant
229124_PM_at	PROK1	prokineticin 1	0.0008	-1.26	Normal down vs > 5 Years Off IS Tolerant
204706_PM_at	INPP5E	inositol polyphosphate-5-phosphatase, 72 kDa	0.0008	1.59	Normal up vs > 5 Years Off IS Tolerant
1559034_PM_at	SIRPB2	signal-regulatory protein beta 2	0.0008	-2.80	Normal down vs > 5 Years Off IS Tolerant
218495_PM_at	UXT	ubiquitously-expressed transcript	0.0008	1.49	Normal up vs > 5 Years Off IS Tolerant
207151_PM_at	ADCYAP1R1	adenylate cyclase activating polypeptide 1 (pituitary) receptor type I	0.0008	-1.26	Normal down vs > 5 Years Off IS Tolerant
204283_PM_at	FARS2	phenylalanyl-tRNA synthetase 2, mitochondrial	0.0008	2.32	Normal up vs > 5 Years Off IS Tolerant
236529_PM_at	SRCRB4D	scavenger receptor cysteine rich domain containing, group B (4 domains)	0.0008	-1.56	Normal down vs > 5 Years Off IS Tolerant
242725_PM_at	---	---	0.0008	2.13	Normal up vs > 5 Years Off IS Tolerant
1554699_PM_at	L3MBTL4	l(3)mbt-like 4 (Drosophila)	0.0008	-1.30	Normal down vs > 5 Years Off IS Tolerant
240788_PM_at	---	---	0.0008	-1.55	Normal down vs > 5 Years Off IS Tolerant
228186_PM_s_at	RSPO3	R-spondin 3 homolog (Xenopus laevis)	0.0008	-1.52	Normal down vs > 5 Years Off IS Tolerant
235047_PM_x_at	NACC1	nucleus accumbens associated 1, BEN and BTB (POZ) domain containing	0.0008	-1.81	Normal down vs > 5 Years Off IS Tolerant
230118_PM_at	---	---	0.0008	-1.54	Normal down vs > 5 Years Off IS Tolerant
200826_PM_at	SNRPD2	small nuclear ribonucleoprotein D2 polypeptide 16.5kDa	0.0008	1.49	Normal up vs > 5 Years Off IS Tolerant
1568815_PM_a_at	DDX50	DEAD (Asp-Glu-Ala-Asp) box polypeptide 50	0.0008	2.15	Normal up vs > 5 Years Off IS Tolerant
227334_PM_at	USP54	ubiquitin specific peptidase 54	0.0008	1.48	Normal up vs > 5 Years Off IS Tolerant

235822_PM_at	COQ9	coenzyme Q9 homolog (<i>S. cerevisiae</i>)	0.0008	-1.39	Normal down vs > 5 Years Off IS Tolerant
202253_PM_s_at	DNM2	dynamain 2	0.0008	1.37	Normal up vs > 5 Years Off IS Tolerant
1563068_PM_at	---	---	0.0008	-1.29	Normal down vs > 5 Years Off IS Tolerant
205239_PM_at	AREG	amphiregulin	0.0008	6.93	Normal up vs > 5 Years Off IS Tolerant
207528_PM_s_at	SLC7A11	solute carrier family 7, (cationic amino acid transporter, y+ system) member 11	0.0008	-1.58	Normal down vs > 5 Years Off IS Tolerant
209969_PM_s_at	STAT1	signal transducer and activator of transcription 1, 91kDa	0.0008	-1.82	Normal down vs > 5 Years Off IS Tolerant
240215_PM_at	---	---	0.0008	-1.45	Normal down vs > 5 Years Off IS Tolerant
218035_PM_s_at	RBM47	RNA binding motif protein 47	0.0008	-1.80	Normal down vs > 5 Years Off IS Tolerant
1557296_PM_at	FLJ12825	hypothetical LOC440101	0.0008	-1.27	Normal down vs > 5 Years Off IS Tolerant
214771_PM_x_at	MPRIP	myosin phosphatase Rho interacting protein	0.0008	1.35	Normal up vs > 5 Years Off IS Tolerant
204601_PM_at	N4BP1	NEDD4 binding protein 1	0.0008	1.73	Normal up vs > 5 Years Off IS Tolerant
204128_PM_s_at	RFC3	replication factor C (activator 1) 3, 38kDa	0.0008	-1.68	Normal down vs > 5 Years Off IS Tolerant
217508_PM_s_at	C18orf25	chromosome 18 open reading frame 25	0.0008	1.59	Normal up vs > 5 Years Off IS Tolerant
207094_PM_at	CXCR1	chemokine (C-X-C motif) receptor 1	0.0008	-1.36	Normal down vs > 5 Years Off IS Tolerant
215152_PM_at	MYB	v-myb myeloblastosis viral oncogene homolog (avian)	0.0008	-1.32	Normal down vs > 5 Years Off IS Tolerant
234311_PM_s_at	GTPBP10	GTP-binding protein 10 (putative)	0.0008	1.87	Normal up vs > 5 Years Off IS Tolerant
204694_PM_at	AFP	alpha-fetoprotein	0.0008	-1.28	Normal down vs > 5 Years Off IS Tolerant
244147_PM_at	---	---	0.0008	-1.43	Normal down vs > 5 Years Off IS Tolerant
242399_PM_at	---	---	0.0008	-1.77	Normal down vs > 5 Years Off IS Tolerant
227211_PM_at	PHF19	PHD finger protein 19	0.0008	1.84	Normal up vs > 5 Years Off IS Tolerant
202020_PM_s_at	LANCL1	LanC lantibiotic synthetase component C-like 1 (bacterial)	0.0008	1.53	Normal up vs > 5 Years Off IS Tolerant
232778_PM_at	---	---	0.0008	1.76	Normal up vs > 5 Years Off IS Tolerant
225569_PM_at	EIF2C2	Eukaryotic translation initiation factor 2C, 2	0.0008	1.66	Normal up vs > 5 Years Off IS Tolerant
1561342_PM_at	LOC150005	hypothetical protein LOC150005	0.0008	-1.58	Normal down vs > 5 Years Off IS Tolerant

213346_PM_at	C13orf27	chromosome 13 open reading frame 27	0.0008	1.83	Normal up vs > 5 Years Off IS Tolerant
211955_PM_at	IPO5	importin 5	0.0008	1.55	Normal up vs > 5 Years Off IS Tolerant
1570269_PM_at	---	---	0.0008	-1.49	Normal down vs > 5 Years Off IS Tolerant
238904_PM_at	---	---	0.0008	-1.58	Normal down vs > 5 Years Off IS Tolerant
226866_PM_at	ESCO1	establishment of cohesion 1 homolog 1 (<i>S. cerevisiae</i>)	0.0008	1.53	Normal up vs > 5 Years Off IS Tolerant
235587_PM_at	LOC202781	hypothetical LOC202781	0.0008	1.99	Normal up vs > 5 Years Off IS Tolerant
220189_PM_s_at	MGAT4B	mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase, isozyme B	0.0008	1.78	Normal up vs > 5 Years Off IS Tolerant
201017_PM_at	EIF1AX	eukaryotic translation initiation factor 1A, X-linked	0.0008	1.82	Normal up vs > 5 Years Off IS Tolerant
204693_PM_at	CDC42EP1	CDC42 effector protein (Rho GTPase binding) 1	0.0008	-1.32	Normal down vs > 5 Years Off IS Tolerant
216944_PM_s_at	ITPR1	inositol 1,4,5-triphosphate receptor, type 1	0.0008	1.85	Normal up vs > 5 Years Off IS Tolerant
206714_PM_at	ALOX15B	arachidonate 15-lipoxygenase, type B	0.0008	-1.30	Normal down vs > 5 Years Off IS Tolerant
205429_PM_s_at	MPP6	membrane protein, palmitoylated 6 (MAGUK p55 subfamily member 6)	0.0008	1.52	Normal up vs > 5 Years Off IS Tolerant
200728_PM_at	ACTR2	ARP2 actin-related protein 2 homolog (yeast)	0.0008	-1.36	Normal down vs > 5 Years Off IS Tolerant
220291_PM_at	GDPD2	glycerophosphodiester phosphodiesterase domain containing 2	0.0008	-1.59	Normal down vs > 5 Years Off IS Tolerant
1563565_PM_at	INPP5B	inositol polyphosphate-5-phosphatase, 75kDa	0.0008	-1.33	Normal down vs > 5 Years Off IS Tolerant
200880_PM_at	DNAJA1	DnaJ (Hsp40) homolog, subfamily A, member 1	0.0008	1.47	Normal up vs > 5 Years Off IS Tolerant
215477_PM_at	---	---	0.0008	-1.74	Normal down vs > 5 Years Off IS Tolerant
1555243_PM_x_at	C8orf59	chromosome 8 open reading frame 59	0.0008	1.39	Normal up vs > 5 Years Off IS Tolerant
205321_PM_at	EIF2S3	eukaryotic translation initiation factor 2, subunit 3 gamma, 52kDa	0.0008	1.78	Normal up vs > 5 Years Off IS Tolerant
219019_PM_at	LRDD	leucine-rich repeats and death domain containing	0.0008	1.42	Normal up vs > 5 Years Off IS Tolerant
241627_PM_x_at	ARHGEF40	Rho guanine nucleotide exchange factor (GEF) 40	0.0008	-1.76	Normal down vs > 5 Years Off IS Tolerant
216104_PM_at	LOC100505960	hypothetical LOC100505960	0.0008	-1.87	Normal down vs > 5 Years Off IS Tolerant
225573_PM_at	ACAD11 /// NPHP3	acyl-CoA dehydrogenase family, member 11 /// nephronophthisis 3 (adolescent)	0.0008	1.60	Normal up vs > 5 Years Off IS Tolerant

217052_PM_x_at	---	---	0.0008	-1.91	Normal down vs > 5 Years Off IS Tolerant
1556385_PM_at	---	---	0.0008	2.21	Normal up vs > 5 Years Off IS Tolerant
212936_PM_at	FAM172A	family with sequence similarity 172, member A	0.0008	1.42	Normal up vs > 5 Years Off IS Tolerant
201854_PM_s_at	ATMIN	ATM interactor	0.0008	1.48	Normal up vs > 5 Years Off IS Tolerant
242962_PM_at	---	---	0.0008	-1.30	Normal down vs > 5 Years Off IS Tolerant
1557207_PM_s_at	LOC283177	hypothetical LOC283177	0.0008	-1.41	Normal down vs > 5 Years Off IS Tolerant
200953_PM_s_at	CCND2	cyclin D2	0.0008	1.72	Normal up vs > 5 Years Off IS Tolerant
1570405_PM_at	---	---	0.0008	-1.33	Normal down vs > 5 Years Off IS Tolerant
202672_PM_s_at	ATF3	activating transcription factor 3	0.0009	5.22	Normal up vs > 5 Years Off IS Tolerant
217503_PM_at	STK17B	serine/threonine kinase 17b	0.0009	2.59	Normal up vs > 5 Years Off IS Tolerant
239741_PM_at	LOC283658 /// PYGO1	hypothetical protein LOC283658 /// pygopus homolog 1 (Drosophila)	0.0009	-1.36	Normal down vs > 5 Years Off IS Tolerant
212331_PM_at	RBL2	retinoblastoma-like 2 (p130)	0.0009	1.61	Normal up vs > 5 Years Off IS Tolerant
213739_PM_at	---	---	0.0009	1.39	Normal up vs > 5 Years Off IS Tolerant
212313_PM_at	CHMP7	CHMP family, member 7	0.0009	1.82	Normal up vs > 5 Years Off IS Tolerant
206472_PM_s_at	TLE3	transducin-like enhancer of split 3 (E(sp1) homolog, Drosophila)	0.0009	2.27	Normal up vs > 5 Years Off IS Tolerant
1563975_PM_at	RNF130	Ring finger protein 130	0.0009	-1.86	Normal down vs > 5 Years Off IS Tolerant
242027_PM_at	---	---	0.0009	2.30	Normal up vs > 5 Years Off IS Tolerant
1560755_PM_at	---	---	0.0009	-1.26	Normal down vs > 5 Years Off IS Tolerant
213687_PM_s_at	RPL35A	ribosomal protein L35a	0.0009	1.24	Normal up vs > 5 Years Off IS Tolerant
235288_PM_at	---	---	0.0009	1.62	Normal up vs > 5 Years Off IS Tolerant
1552929_PM_at	GRK7	G protein-coupled receptor kinase 7	0.0009	-1.50	Normal down vs > 5 Years Off IS Tolerant
1563533_PM_at	GADL1	glutamate decarboxylase-like 1	0.0009	-1.82	Normal down vs > 5 Years Off IS Tolerant
216623_PM_x_at	TOX3	TOX high mobility group box family member 3	0.0009	-1.44	Normal down vs > 5 Years Off IS Tolerant
231241_PM_at	LOC645744	Similar to PCAF associated factor 65 beta	0.0009	2.28	Normal up vs > 5 Years Off IS Tolerant
212833_PM_at	SLC25A46	solute carrier family 25, member 46	0.0009	1.43	Normal up vs > 5 Years Off IS Tolerant
204234_PM_s_at	ZNF195	zinc finger protein 195	0.0009	2.01	Normal up vs > 5 Years Off IS Tolerant
225535_PM_s_at	TIMM23	translocase of inner mitochondrial membrane 23 homolog (yeast)	0.0009	1.52	Normal up vs > 5 Years Off IS Tolerant

232738_PM_at	FAM190A	family with sequence similarity 190, member A	0.0009	-1.51	Normal down vs > 5 Years Off IS Tolerant
230380_PM_at	LOC100289049	Hypothetical protein LOC100289049	0.0009	4.16	Normal up vs > 5 Years Off IS Tolerant
203831_PM_at	R3HDM2	R3H domain containing 2	0.0009	1.32	Normal up vs > 5 Years Off IS Tolerant
240735_PM_at	CDC42BPA	CDC42 binding protein kinase alpha (DMPK-like)	0.0009	-1.58	Normal down vs > 5 Years Off IS Tolerant
219024_PM_at	PLEKHA1	pleckstrin homology domain containing, family A (phosphoinositide binding specific) mem	0.0009	1.64	Normal up vs > 5 Years Off IS Tolerant
201896_PM_s_at	PSRC1	proline/serine-rich coiled-coil 1	0.0009	-1.71	Normal down vs > 5 Years Off IS Tolerant
224250_PM_s_at	SECISBP2	SECIS binding protein 2	0.0009	1.28	Normal up vs > 5 Years Off IS Tolerant
213815_PM_x_at	C19orf29	chromosome 19 open reading frame 29	0.0009	1.54	Normal up vs > 5 Years Off IS Tolerant
200773_PM_x_at	PTMA	prothymosin, alpha	0.0009	1.10	Normal up vs > 5 Years Off IS Tolerant
213524_PM_s_at	G0S2	G0/G1switch 2	0.0009	5.21	Normal up vs > 5 Years Off IS Tolerant
1569571_PM_at	LIPJ	lipase, family member J	0.0009	-1.31	Normal down vs > 5 Years Off IS Tolerant
229023_PM_at	SFT2D3	SFT2 domain containing 3	0.0009	-1.48	Normal down vs > 5 Years Off IS Tolerant
223600_PM_s_at	KIAA1683	KIAA1683	0.0009	1.80	Normal up vs > 5 Years Off IS Tolerant
219698_PM_s_at	METTL4	methyltransferase like 4	0.0009	1.99	Normal up vs > 5 Years Off IS Tolerant
213558_PM_at	PCLO	piccolo (presynaptic cytomatrix protein)	0.0009	-1.46	Normal down vs > 5 Years Off IS Tolerant
228160_PM_at	LOC339290	hypothetical LOC339290	0.0009	2.21	Normal up vs > 5 Years Off IS Tolerant
1569225_PM_a_at	SCML4	sex comb on midleg-like 4 (Drosophila)	0.0009	2.42	Normal up vs > 5 Years Off IS Tolerant
1569344_PM_a_at	---	---	0.0009	-1.51	Normal down vs > 5 Years Off IS Tolerant
214817_PM_at	UNC13A	unc-13 homolog A (C. elegans)	0.0009	-1.37	Normal down vs > 5 Years Off IS Tolerant
232845_PM_at	CDH23	cadherin-related 23	0.0009	-1.57	Normal down vs > 5 Years Off IS Tolerant
221880_PM_s_at	FAM174B	family with sequence similarity 174, member B	0.0009	-1.33	Normal down vs > 5 Years Off IS Tolerant
202000_PM_at	NDUFA6	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 6, 14kDa	0.0009	1.80	Normal up vs > 5 Years Off IS Tolerant
223532_PM_at	ANKRD39	ankyrin repeat domain 39	0.0009	1.77	Normal up vs > 5 Years Off IS Tolerant
222640_PM_at	DNMT3A	DNA (cytosine-5-)-methyltransferase 3 alpha	0.0009	1.57	Normal up vs > 5 Years Off IS Tolerant
216108_PM_at	---	---	0.0009	-1.71	Normal down vs > 5 Years Off IS Tolerant

210708_PM_x_at	CASP10	caspase 10, apoptosis-related cysteine peptidase	0.0009	-1.39	Normal down vs > 5 Years Off IS Tolerant
240281_PM_at	---	---	0.0009	-1.45	Normal down vs > 5 Years Off IS Tolerant
225154_PM_at	SYAP1	synapse associated protein 1	0.0009	2.46	Normal up vs > 5 Years Off IS Tolerant
223028_PM_s_at	SNX9	sorting nexin 9	0.0009	2.69	Normal up vs > 5 Years Off IS Tolerant
240908_PM_at	LOC100507153	hypothetical LOC100507153	0.0009	1.84	Normal up vs > 5 Years Off IS Tolerant
203556_PM_at	ZHX2	zinc fingers and homeoboxes 2	0.0009	1.98	Normal up vs > 5 Years Off IS Tolerant
203737_PM_s_at	PPRC1	peroxisome proliferator-activated receptor gamma, coactivator-related 1	0.0009	1.68	Normal up vs > 5 Years Off IS Tolerant
236860_PM_at	NPY6R	neuropeptide Y receptor Y6 (pseudogene)	0.0009	-1.89	Normal down vs > 5 Years Off IS Tolerant
1569032_PM_at	LOC642852	hypothetical LOC642852	0.0009	-1.28	Normal down vs > 5 Years Off IS Tolerant
235603_PM_at	HNRNPU	heterogeneous nuclear ribonucleoprotein U (scaffold attachment factor A)	0.0009	1.73	Normal up vs > 5 Years Off IS Tolerant
239225_PM_at	---	---	0.0009	-1.51	Normal down vs > 5 Years Off IS Tolerant
211297_PM_s_at	CDK7	cyclin-dependent kinase 7	0.0009	1.72	Normal up vs > 5 Years Off IS Tolerant
204453_PM_at	ZNF84	zinc finger protein 84	0.0009	2.26	Normal up vs > 5 Years Off IS Tolerant
214842_PM_s_at	---	---	0.0009	-1.43	Normal down vs > 5 Years Off IS Tolerant
1562002_PM_at	MYOZ3	myozenin 3	0.0009	-1.40	Normal down vs > 5 Years Off IS Tolerant
218118_PM_s_at	TIMM23	translocase of inner mitochondrial membrane 23 homolog (yeast)	0.0009	1.75	Normal up vs > 5 Years Off IS Tolerant
235086_PM_at	THBS1	thrombospondin 1	0.0009	11.81	Normal up vs > 5 Years Off IS Tolerant
237072_PM_at	---	---	0.0009	-1.39	Normal down vs > 5 Years Off IS Tolerant
244135_PM_at	---	---	0.0009	-1.33	Normal down vs > 5 Years Off IS Tolerant
203467_PM_at	PMM1	phosphomannomutase 1	0.0009	1.60	Normal up vs > 5 Years Off IS Tolerant
204278_PM_s_at	EBAG9	estrogen receptor binding site associated, antigen, 9	0.0009	1.46	Normal up vs > 5 Years Off IS Tolerant
1557119_PM_a_at	ZNF575	zinc finger protein 575	0.0009	1.44	Normal up vs > 5 Years Off IS Tolerant
227796_PM_at	ZFP62	zinc finger protein 62 homolog (mouse)	0.0009	2.11	Normal up vs > 5 Years Off IS Tolerant
230046_PM_at	---	---	0.0009	-1.55	Normal down vs > 5 Years Off IS Tolerant
1561214_PM_at	---	---	0.0009	-2.45	Normal down vs > 5 Years Off IS Tolerant

219212_PM_at	HSPA14	heat shock 70kDa protein 14	0.0009	1.53	Normal up vs > 5 Years Off IS Tolerant
236932_PM_s_at	GATAD2A	GATA zinc finger domain containing 2A	0.0009	1.27	Normal up vs > 5 Years Off IS Tolerant
202134_PM_s_at	WWTR1	WW domain containing transcription regulator 1	0.0009	-1.46	Normal down vs > 5 Years Off IS Tolerant
215141_PM_at	C4orf10	chromosome 4 open reading frame 10	0.0009	-1.39	Normal down vs > 5 Years Off IS Tolerant
225279_PM_s_at	C3orf17	chromosome 3 open reading frame 17	0.0009	1.53	Normal up vs > 5 Years Off IS Tolerant
218134_PM_s_at	RBM22	RNA binding motif protein 22	0.0009	1.34	Normal up vs > 5 Years Off IS Tolerant
202074_PM_s_at	OPTN	optineurin	0.0009	2.10	Normal up vs > 5 Years Off IS Tolerant
226465_PM_s_at	SON	SON DNA binding protein	0.0009	1.22	Normal up vs > 5 Years Off IS Tolerant
224624_PM_at	LRRC8A	leucine rich repeat containing 8 family, member A	0.0009	1.56	Normal up vs > 5 Years Off IS Tolerant
226272_PM_at	RCAN3	RCAN family member 3	0.0009	2.63	Normal up vs > 5 Years Off IS Tolerant
222032_PM_s_at	USP7	ubiquitin specific peptidase 7 (herpes virus-associated)	0.0009	1.57	Normal up vs > 5 Years Off IS Tolerant
240116_PM_at	---	---	0.0009	-1.55	Normal down vs > 5 Years Off IS Tolerant
1567101_PM_at	---	---	0.0009	-1.57	Normal down vs > 5 Years Off IS Tolerant
240849_PM_at	---	---	0.0009	-1.41	Normal down vs > 5 Years Off IS Tolerant
225376_PM_at	C20orf11	chromosome 20 open reading frame 11	0.0009	1.48	Normal up vs > 5 Years Off IS Tolerant
1564131_PM_a_at	---	---	0.0009	-1.36	Normal down vs > 5 Years Off IS Tolerant
215293_PM_s_at	PGAP2	post-GPI attachment to proteins 2	0.0009	1.51	Normal up vs > 5 Years Off IS Tolerant
235125_PM_x_at	FAM73A	family with sequence similarity 73, member A	0.0009	1.96	Normal up vs > 5 Years Off IS Tolerant
210653_PM_s_at	BCKDHB	branched chain keto acid dehydrogenase E1, beta polypeptide	0.0009	1.90	Normal up vs > 5 Years Off IS Tolerant
205255_PM_x_at	TCF7	transcription factor 7 (T-cell specific, HMG-box)	0.0009	1.93	Normal up vs > 5 Years Off IS Tolerant
236293_PM_at	RHOH	ras homolog gene family, member H	0.0009	2.08	Normal up vs > 5 Years Off IS Tolerant
1553549_PM_at	VN1R2	vomeronasal 1 receptor 2	0.0009	-1.41	Normal down vs > 5 Years Off IS Tolerant
207835_PM_at	FBLN1	fibulin 1	0.0009	-3.09	Normal down vs > 5 Years Off IS Tolerant
228627_PM_at	TLK2	tousled-like kinase 2	0.0009	1.52	Normal up vs > 5 Years Off IS Tolerant
241921_PM_x_at	---	---	0.0009	-1.52	Normal down vs > 5 Years Off IS Tolerant
233167_PM_at	SELO	selenoprotein O	0.0009	2.21	Normal up vs > 5 Years Off IS Tolerant
223294_PM_at	CXorf26	chromosome X open reading frame 26	0.0009	1.52	Normal up vs > 5 Years Off IS Tolerant

213901_PM_x_at	RBFOX2	RNA binding protein, fox-1 homolog (C. elegans) 2	0.0009	-1.37	Normal down vs > 5 Years Off IS Tolerant
1556323_PM_at	CELF2	CUGBP, Elav-like family member 2	0.0009	1.69	Normal up vs > 5 Years Off IS Tolerant
1568768_PM_s_at	LOC100302650	hypothetical LOC100302650	0.0010	3.72	Normal up vs > 5 Years Off IS Tolerant
223189_PM_x_at	MLL5	myeloid/lymphoid or mixed-lineage leukemia 5 (trithorax homolog, Drosophila)	0.0010	1.29	Normal up vs > 5 Years Off IS Tolerant
1560109_PM_s_at	---	---	0.0010	-1.55	Normal down vs > 5 Years Off IS Tolerant
229420_PM_at	---	---	0.0010	-2.07	Normal down vs > 5 Years Off IS Tolerant
1561960_PM_at	CSPG4P5	chondroitin sulfate proteoglycan 4 pseudogene 5	0.0010	-1.39	Normal down vs > 5 Years Off IS Tolerant
216246_PM_at	---	---	0.0010	-2.45	Normal down vs > 5 Years Off IS Tolerant
203969_PM_at	PEX3	peroxisomal biogenesis factor 3	0.0010	1.56	Normal up vs > 5 Years Off IS Tolerant
221553_PM_at	MAGT1	magnesium transporter 1	0.0010	1.60	Normal up vs > 5 Years Off IS Tolerant
239945_PM_at	---	---	0.0010	-1.84	Normal down vs > 5 Years Off IS Tolerant
205250_PM_s_at	CEP290	centrosomal protein 290kDa	0.0010	1.49	Normal up vs > 5 Years Off IS Tolerant
218114_PM_at	GGA1	golgi-associated, gamma adaptin ear containing, ARF binding protein 1	0.0010	1.47	Normal up vs > 5 Years Off IS Tolerant
208433_PM_s_at	LRP8	low density lipoprotein receptor-related protein 8, apolipoprotein e receptor	0.0010	1.63	Normal up vs > 5 Years Off IS Tolerant
1563853_PM_at	LOC283045	hypothetical protein LOC283045	0.0010	-2.23	Normal down vs > 5 Years Off IS Tolerant
216837_PM_at	EPHA5	EPH receptor A5	0.0010	-2.09	Normal down vs > 5 Years Off IS Tolerant
206017_PM_at	KIAA0319	KIAA0319	0.0010	-1.38	Normal down vs > 5 Years Off IS Tolerant
233820_PM_at	---	---	0.0010	-1.34	Normal down vs > 5 Years Off IS Tolerant
220212_PM_s_at	THADA	thyroid adenoma associated	0.0010	1.56	Normal up vs > 5 Years Off IS Tolerant
1570315_PM_at	HTA	hypothetical LOC283902	0.0010	-1.71	Normal down vs > 5 Years Off IS Tolerant
1560151_PM_x_at	SLC29A2	solute carrier family 29 (nucleoside transporters), member 2	0.0010	-1.41	Normal down vs > 5 Years Off IS Tolerant
1563033_PM_x_at	---	---	0.0010	-1.31	Normal down vs > 5 Years Off IS Tolerant
234485_PM_at	EIF3L	eukaryotic translation initiation factor 3, subunit L	0.0010	1.57	Normal up vs > 5 Years Off IS Tolerant

213024_PM_at	TMF1	TATA element modulatory factor 1	0.0010	2.16	Normal up vs > 5 Years Off IS Tolerant
212061_PM_at	SR140	U2-associated SR140 protein	0.0010	1.45	Normal up vs > 5 Years Off IS Tolerant
232001_PM_at	LOC439949	hypothetical LOC439949	0.0010	3.23	Normal up vs > 5 Years Off IS Tolerant
220531_PM_at	---	---	0.0010	-1.40	Normal down vs > 5 Years Off IS Tolerant
239302_PM_s_at	LOC100506922	hypothetical LOC100506922	0.0010	2.04	Normal up vs > 5 Years Off IS Tolerant
206678_PM_at	GABRA1	gamma-aminobutyric acid (GABA) A receptor, alpha 1	0.0010	-1.88	Normal down vs > 5 Years Off IS Tolerant
229072_PM_at	---	---	0.0010	2.96	Normal up vs > 5 Years Off IS Tolerant
220643_PM_s_at	FAIM	Fas apoptotic inhibitory molecule	0.0010	1.60	Normal up vs > 5 Years Off IS Tolerant
239442_PM_at	CEP68	centrosomal protein 68kDa	0.0010	2.08	Normal up vs > 5 Years Off IS Tolerant
227119_PM_at	CNOT6L	CCR4-NOT transcription complex, subunit 6-like	0.0010	1.87	Normal up vs > 5 Years Off IS Tolerant
242262_PM_x_at	---	---	0.0010	-1.30	Normal down vs > 5 Years Off IS Tolerant
33304_PM_at	ISG20	interferon stimulated exonuclease gene 20kDa	0.0010	1.77	Normal up vs > 5 Years Off IS Tolerant
202505_PM_at	SNRPB2	small nuclear ribonucleoprotein polypeptide B	0.0010	1.36	Normal up vs > 5 Years Off IS Tolerant
210635_PM_s_at	KLHL20	kelch-like 20 (Drosophila)	0.0010	1.78	Normal up vs > 5 Years Off IS Tolerant
1552672_PM_a_at	IGSF3	immunoglobulin superfamily, member 3	0.0010	-1.33	Normal down vs > 5 Years Off IS Tolerant
223325_PM_at	TXNDC11	thioredoxin domain containing 11	0.0010	1.94	Normal up vs > 5 Years Off IS Tolerant
211543_PM_s_at	GRK6	G protein-coupled receptor kinase 6	0.0010	1.67	Normal up vs > 5 Years Off IS Tolerant
215616_PM_s_at	KDM4B	lysine (K)-specific demethylase 4B	0.0010	-1.45	Normal down vs > 5 Years Off IS Tolerant
233645_PM_s_at	C1RL	complement component 1, r subcomponent-like	0.0010	-1.33	Normal down vs > 5 Years Off IS Tolerant
1563721_PM_at	---	---	0.0010	-1.44	Normal down vs > 5 Years Off IS Tolerant
222390_PM_at	WAC	WW domain containing adaptor with coiled-coil	0.0010	1.15	Normal up vs > 5 Years Off IS Tolerant
231782_PM_s_at	KLK4	kallikrein-related peptidase 4	0.0010	-1.36	Normal down vs > 5 Years Off IS Tolerant
210607_PM_at	FLT3LG	fms-related tyrosine kinase 3 ligand	0.0010	2.32	Normal up vs > 5 Years Off IS Tolerant
210283_PM_x_at	PAIP1	poly(A) binding protein interacting protein 1	0.0010	2.35	Normal up vs > 5 Years Off IS Tolerant
223080_PM_at	GLS	Glutaminase	0.0010	1.99	Normal up vs > 5 Years Off IS Tolerant
229608_PM_at	C1orf183	chromosome 1 open reading frame 183	0.0010	-1.43	Normal down vs > 5 Years Off IS Tolerant
204788_PM_s_at	PPOX	protoporphyrinogen oxidase	0.0010	1.59	Normal up vs > 5 Years Off IS Tolerant
244755_PM_at	---	---	0.0010	1.51	Normal up vs > 5 Years Off IS Tolerant
204995_PM_at	CDK5R1	cyclin-dependent kinase 5, regulatory subunit 1 (p35)	0.0010	2.55	Normal up vs > 5 Years Off IS Tolerant
222026_PM_at	RBM3	RNA binding motif (RNP1, RRM) protein 3	0.0010	1.94	Normal up vs > 5 Years Off IS Tolerant

225295_PM_at	SLC39A10	solute carrier family 39 (zinc transporter), member 10	0.0010	1.65	Normal up vs > 5 Years Off IS Tolerant
1563396_PM_x_at	---	---	0.0010	-1.34	Normal down vs > 5 Years Off IS Tolerant
1567140_PM_at	---	---	0.0010	-1.35	Normal down vs > 5 Years Off IS Tolerant
225865_PM_x_at	TH1L	TH1-like (Drosophila)	0.0010	1.45	Normal up vs > 5 Years Off IS Tolerant
1561292_PM_at	---	---	0.0010	-1.39	Normal down vs > 5 Years Off IS Tolerant
1553016_PM_at	GPR113	G protein-coupled receptor 113	0.0010	-1.64	Normal down vs > 5 Years Off IS Tolerant
232005_PM_at	DNAH1	dynein, axonemal, heavy chain 1	0.0010	1.49	Normal up vs > 5 Years Off IS Tolerant
222422_PM_s_at	NDFIP1	Nedd4 family interacting protein 1	0.0010	1.65	Normal up vs > 5 Years Off IS Tolerant
220596_PM_at	GPATCH4	G patch domain containing 4	0.0010	-1.43	Normal down vs > 5 Years Off IS Tolerant
201580_PM_s_at	TMX4	thioredoxin-related transmembrane protein 4	0.0010	1.73	Normal up vs > 5 Years Off IS Tolerant
204777_PM_s_at	MAL	mal, T-cell differentiation protein	0.0010	4.22	Normal up vs > 5 Years Off IS Tolerant
1569287_PM_at	---	---	0.0010	-1.27	Normal down vs > 5 Years Off IS Tolerant
244462_PM_at	ZNF224	zinc finger protein 224	0.0010	1.76	Normal up vs > 5 Years Off IS Tolerant
1554252_PM_a_at	LASS3	LAG1 homolog, ceramide synthase 3	0.0010	-2.06	Normal down vs > 5 Years Off IS Tolerant
219220_PM_x_at	MRPS22	mitochondrial ribosomal protein S22	0.0010	1.49	Normal up vs > 5 Years Off IS Tolerant
241077_PM_at	---	---	0.0010	-2.42	Normal down vs > 5 Years Off IS Tolerant
216179_PM_x_at	---	---	0.0010	-1.32	Normal down vs > 5 Years Off IS Tolerant
216011_PM_at	SLC39A9	Solute carrier family 39 (zinc transporter), member 9	0.0010	-1.62	Normal down vs > 5 Years Off IS Tolerant
219526_PM_at	C14orf169	chromosome 14 open reading frame 169	0.0010	1.66	Normal up vs > 5 Years Off IS Tolerant
234766_PM_at	OR8D2	olfactory receptor, family 8, subfamily D, member 2	0.0010	-1.26	Normal down vs > 5 Years Off IS Tolerant
214028_PM_x_at	TDRD3	tudor domain containing 3	0.0010	1.44	Normal up vs > 5 Years Off IS Tolerant
241654_PM_at	---	---	0.0010	-3.49	Normal down vs > 5 Years Off IS Tolerant
211969_PM_at	HSP90AA1	heat shock protein 90kDa alpha (cytosolic), class A member 1	0.0010	1.22	Normal up vs > 5 Years Off IS Tolerant
237628_PM_at	---	---	0.0010	-1.75	Normal down vs > 5 Years Off IS Tolerant

207405_PM_s_at	RAD17	RAD17 homolog (S. pombe)	0.0010	1.64	Normal up vs > 5 Years Off IS Tolerant
209810_PM_at	SFTPB	surfactant protein B	0.0010	-1.31	Normal down vs > 5 Years Off IS Tolerant
204742_PM_s_at	PDS5B	PDS5, regulator of cohesion maintenance, homolog B (S. cerevisiae)	0.0010	1.73	Normal up vs > 5 Years Off IS Tolerant
231506_PM_at	---	---	0.0010	-1.29	Normal down vs > 5 Years Off IS Tolerant
215717_PM_s_at	FBN2	fibrillin 2	0.0010	-1.44	Normal down vs > 5 Years Off IS Tolerant
212183_PM_at	NUDT4	nudix (nucleoside diphosphate linked moiety X)-type motif 4	0.0010	2.67	Normal up vs > 5 Years Off IS Tolerant
244402_PM_at	---	---	0.0010	-1.39	Normal down vs > 5 Years Off IS Tolerant
218667_PM_at	PJA1	praja ring finger 1	0.0010	1.53	Normal up vs > 5 Years Off IS Tolerant
1553837_PM_at	PGAM5	phosphoglycerate mutase family member 5	0.0010	-1.41	Normal down vs > 5 Years Off IS Tolerant
203319_PM_s_at	ZNF148	zinc finger protein 148	0.0010	1.62	Normal up vs > 5 Years Off IS Tolerant
234969_PM_s_at	EPC1	enhancer of polycomb homolog 1 (Drosophila)	0.0010	1.34	Normal up vs > 5 Years Off IS Tolerant
209757_PM_s_at	MYCN	v-myc myelocytomatosis viral related oncogene, neuroblastoma derived (avian)	0.0010	-1.36	Normal down vs > 5 Years Off IS Tolerant
1562891_PM_at	---	---	0.0010	-1.63	Normal down vs > 5 Years Off IS Tolerant
212672_PM_at	ATM	ataxia telangiectasia mutated	0.0010	1.81	Normal up vs > 5 Years Off IS Tolerant
235473_PM_at	MED6	Mediator complex subunit 6	0.0010	1.87	Normal up vs > 5 Years Off IS Tolerant
1564803_PM_at	KRTAP11-1	keratin associated protein 11-1	0.0010	-1.49	Normal down vs > 5 Years Off IS Tolerant
204743_PM_at	TAGLN3	transgelin 3	0.0010	-1.41	Normal down vs > 5 Years Off IS Tolerant
218343_PM_s_at	GTF3C3	general transcription factor IIIC, polypeptide 3, 102kDa	0.0010	1.40	Normal up vs > 5 Years Off IS Tolerant
204890_PM_s_at	LCK	lymphocyte-specific protein tyrosine kinase	0.0010	2.61	Normal up vs > 5 Years Off IS Tolerant
214439_PM_x_at	BIN1	bridging integrator 1	0.0010	1.98	Normal up vs > 5 Years Off IS Tolerant
224696_PM_s_at	DCAF5	DDB1 and CUL4 associated factor 5	0.0010	1.58	Normal up vs > 5 Years Off IS Tolerant
236148_PM_at	---	---	0.0010	-1.27	Normal down vs > 5 Years Off IS Tolerant
204562_PM_at	IRF4	interferon regulatory factor 4	0.0010	1.96	Normal up vs > 5 Years Off IS Tolerant
210253_PM_at	HTATIP2	HIV-1 Tat interactive protein 2, 30kDa	0.0010	1.79	Normal up vs > 5 Years Off IS Tolerant
210825_PM_s_at	PEBP1	phosphatidylethanolamine binding protein 1	0.0010	1.45	Normal up vs > 5 Years Off IS Tolerant

1567912_PM_s_at	CT45A1 /// CT45A2 /// CT45A3 /// CT45A4 /// CT45A5 /// CT45A6 /// LOC100133581	cancer/testis antigen family 45, member A1 /// cancer/testis antigen family 45, member	0.0010	-1.55	Normal down vs > 5 Years Off IS Tolerant
230403_PM_at	RFX3	regulatory factor X, 3 (influences HLA class II expression)	0.0010	2.06	Normal up vs > 5 Years Off IS Tolerant
236538_PM_at	GRIA2	glutamate receptor, ionotropic, AMPA 2	0.0010	-1.40	Normal down vs > 5 Years Off IS Tolerant
210983_PM_s_at	MCM7	minichromosome maintenance complex component 7	0.0010	1.85	Normal up vs > 5 Years Off IS Tolerant
210097_PM_s_at	NOL7	nucleolar protein 7, 27kDa	0.0010	1.34	Normal up vs > 5 Years Off IS Tolerant
230082_PM_at	LOC100133660	Hypothetical LOC100133660	0.0010	2.46	Normal up vs > 5 Years Off IS Tolerant
208806_PM_at	CHD3	chromodomain helicase DNA binding protein 3	0.0010	1.61	Normal up vs > 5 Years Off IS Tolerant
234203_PM_at	---	---	0.0010	-1.33	Normal down vs > 5 Years Off IS Tolerant
207201_PM_s_at	SLC22A1	solute carrier family 22 (organic cation transporter), member 1	0.0010	-1.29	Normal down vs > 5 Years Off IS Tolerant
211285_PM_s_at	UBE3A	ubiquitin protein ligase E3A	0.0010	1.25	Normal up vs > 5 Years Off IS Tolerant
1557185_PM_at	TPCN1	two pore segment channel 1	0.0010	-1.39	Normal down vs > 5 Years Off IS Tolerant
203657_PM_s_at	CTSF	cathepsin F	0.0010	1.42	Normal up vs > 5 Years Off IS Tolerant
1553547_PM_at	---	---	0.0010	-1.44	Normal down vs > 5 Years Off IS Tolerant
236754_PM_at	PPP1R2	protein phosphatase 1, regulatory (inhibitor) subunit 2	0.0010	1.64	Normal up vs > 5 Years Off IS Tolerant
202478_PM_at	TRIB2	tribbles homolog 2 (Drosophila)	0.0010	1.97	Normal up vs > 5 Years Off IS Tolerant
217773_PM_s_at	NDUFA4	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4, 9kDa	0.0010	1.33	Normal up vs > 5 Years Off IS Tolerant
232171_PM_x_at	KLHDC4	kelch domain containing 4	0.0010	2.15	Normal up vs > 5 Years Off IS Tolerant
206051_PM_at	ELAVL4	ELAV (embryonic lethal, abnormal vision, Drosophila)- like 4 (Hu antigen D)	0.0010	-1.54	Normal down vs > 5 Years Off IS Tolerant
224964_PM_s_at	GNG2	guanine nucleotide binding protein (G protein), gamma 2	0.0010	1.40	Normal up vs > 5 Years Off IS Tolerant
1555189_PM_a_at	TAT	tyrosine aminotransferase	0.0010	-1.97	Normal down vs > 5 Years Off IS Tolerant
207983_PM_s_at	STAG2	stromal antigen 2	0.0010	1.39	Normal up vs > 5 Years Off IS Tolerant

217273_PM_at	PRAMEF10	PRAME family member 10	0.0011	-1.30	Normal down vs > 5 Years Off IS Tolerant
202191_PM_s_at	GAS7	growth arrest-specific 7	0.0011	-1.53	Normal down vs > 5 Years Off IS Tolerant
204436_PM_at	PLEKHO2	pleckstrin homology domain containing, family O member 2	0.0011	-1.52	Normal down vs > 5 Years Off IS Tolerant
209648_PM_x_at	SOCS5	suppressor of cytokine signaling 5	0.0011	1.85	Normal up vs > 5 Years Off IS Tolerant
1554665_PM_at	ZNF586	zinc finger protein 586	0.0011	-1.52	Normal down vs > 5 Years Off IS Tolerant
218405_PM_at	ABT1	activator of basal transcription 1	0.0011	1.56	Normal up vs > 5 Years Off IS Tolerant
204988_PM_at	FGB	fibrinogen beta chain	0.0011	-1.44	Normal down vs > 5 Years Off IS Tolerant
243731_PM_at	---	---	0.0011	-1.64	Normal down vs > 5 Years Off IS Tolerant
209974_PM_s_at	BUB3	budding uninhibited by benzimidazoles 3 homolog (yeast)	0.0011	1.64	Normal up vs > 5 Years Off IS Tolerant
1554303_PM_at	HNMT	histamine N-methyltransferase	0.0011	-1.36	Normal down vs > 5 Years Off IS Tolerant
221558_PM_s_at	LEF1	lymphoid enhancer-binding factor 1	0.0011	3.23	Normal up vs > 5 Years Off IS Tolerant
203468_PM_at	CDK10	cyclin-dependent kinase 10	0.0011	1.69	Normal up vs > 5 Years Off IS Tolerant
203129_PM_s_at	KIF5C	kinesin family member 5C	0.0011	1.78	Normal up vs > 5 Years Off IS Tolerant
221506_PM_s_at	TNPO2	transportin 2	0.0011	1.37	Normal up vs > 5 Years Off IS Tolerant
1569401_PM_at	CLEC12A	C-type lectin domain family 12, member A	0.0011	-2.84	Normal down vs > 5 Years Off IS Tolerant
1561909_PM_at	---	---	0.0011	-1.63	Normal down vs > 5 Years Off IS Tolerant
208723_PM_at	USP11	ubiquitin specific peptidase 11	0.0011	1.48	Normal up vs > 5 Years Off IS Tolerant
210024_PM_s_at	UBE2E3	ubiquitin-conjugating enzyme E2E 3 (UBC4/5 homolog, yeast)	0.0011	1.30	Normal up vs > 5 Years Off IS Tolerant
221548_PM_s_at	ILKAP	integrin-linked kinase-associated serine/threonine phosphatase	0.0011	1.51	Normal up vs > 5 Years Off IS Tolerant
209862_PM_s_at	CEP57	centrosomal protein 57kDa	0.0011	1.49	Normal up vs > 5 Years Off IS Tolerant
1561271_PM_at	CCDC144C	coiled-coil domain containing 144C	0.0011	-2.79	Normal down vs > 5 Years Off IS Tolerant
235568_PM_at	C19orf59	chromosome 19 open reading frame 59	0.0011	-2.60	Normal down vs > 5 Years Off IS Tolerant
238704_PM_at	---	---	0.0011	1.67	Normal up vs > 5 Years Off IS Tolerant
232774_PM_x_at	ZIK1	zinc finger protein interacting with K protein 1 homolog (mouse)	0.0011	1.42	Normal up vs > 5 Years Off IS Tolerant

201422_PM_at	IFI30	interferon, gamma-inducible protein 30	0.0011	-1.40	Normal down vs > 5 Years Off IS Tolerant
206073_PM_at	COLQ	collagen-like tail subunit (single strand of homotrimer) of asymmetric acetylcholinesterase	0.0011	1.83	Normal up vs > 5 Years Off IS Tolerant
234647_PM_at	KCNIP3	Kv channel interacting protein 3, calsenilin	0.0011	-1.53	Normal down vs > 5 Years Off IS Tolerant
207170_PM_s_at	LETMD1	LETM1 domain containing 1	0.0011	1.53	Normal up vs > 5 Years Off IS Tolerant
212176_PM_at	SFRS18	splicing factor, arginine/serine-rich 18	0.0011	1.34	Normal up vs > 5 Years Off IS Tolerant
233840_PM_at	LOC100130950	hypothetical LOC100130950	0.0011	-1.30	Normal down vs > 5 Years Off IS Tolerant
200093_PM_s_at	HINT1	histidine triad nucleotide binding protein 1	0.0011	1.49	Normal up vs > 5 Years Off IS Tolerant
204593_PM_s_at	SMCR7L	Smith-Magenis syndrome chromosome region, candidate 7-like	0.0011	1.88	Normal up vs > 5 Years Off IS Tolerant
228976_PM_at	ICOSLG	inducible T-cell co-stimulator ligand	0.0011	2.56	Normal up vs > 5 Years Off IS Tolerant
1558411_PM_at	EGFEM1P	EGF-like and EMI domain containing 1, pseudogene	0.0011	-1.59	Normal down vs > 5 Years Off IS Tolerant
212222_PM_at	PSME4	proteasome (prosome, macropain) activator subunit 4	0.0011	1.56	Normal up vs > 5 Years Off IS Tolerant
1563970_PM_at	LOC100130998	hypothetical protein LOC100130998	0.0011	-1.60	Normal down vs > 5 Years Off IS Tolerant
216197_PM_at	ATF7IP	activating transcription factor 7 interacting protein	0.0011	2.03	Normal up vs > 5 Years Off IS Tolerant
227910_PM_at	XPNPEP3	X-prolyl aminopeptidase (aminopeptidase P) 3, putative	0.0011	1.96	Normal up vs > 5 Years Off IS Tolerant
200833_PM_s_at	RAP1B	RAP1B, member of RAS oncogene family	0.0011	1.22	Normal up vs > 5 Years Off IS Tolerant
224218_PM_s_at	TRPS1	trichorhinophalangeal syndrome I	0.0011	-1.96	Normal down vs > 5 Years Off IS Tolerant
225816_PM_at	PHF17	PHD finger protein 17	0.0011	1.66	Normal up vs > 5 Years Off IS Tolerant
235782_PM_at	---	---	0.0011	2.04	Normal up vs > 5 Years Off IS Tolerant
228572_PM_at	LOC100507168	hypothetical LOC100507168	0.0011	-1.65	Normal down vs > 5 Years Off IS Tolerant
227408_PM_s_at	SNX25	sorting nexin 25	0.0011	1.58	Normal up vs > 5 Years Off IS Tolerant
1553872_PM_at	C17orf103	chromosome 17 open reading frame 103	0.0011	-1.52	Normal down vs > 5 Years Off IS Tolerant
1557240_PM_a_at	---	---	0.0011	2.03	Normal up vs > 5 Years Off IS Tolerant
217144_PM_at	UBB	ubiquitin B	0.0011	2.14	Normal up vs > 5 Years Off IS Tolerant
238446_PM_at	GUSBP3	Glucuronidase, beta pseudogene 3	0.0011	-2.22	Normal down vs > 5 Years Off IS Tolerant
205257_PM_s_at	AMPH	amphiphysin	0.0011	-1.57	Normal down vs > 5 Years Off IS Tolerant

218841_PM_at	ASB8	ankyrin repeat and SOCS box-containing 8	0.0011	1.66	Normal up vs > 5 Years Off IS Tolerant
1555155_PM_at	MLLT6	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocate	0.0011	-1.39	Normal down vs > 5 Years Off IS Tolerant
201174_PM_s_at	TERF2IP	telomeric repeat binding factor 2, interacting protein	0.0011	1.49	Normal up vs > 5 Years Off IS Tolerant
240017_PM_at	LOC400960	Hypothetical gene supported by BC040598	0.0011	-1.35	Normal down vs > 5 Years Off IS Tolerant
219870_PM_at	ATF7IP2	activating transcription factor 7 interacting protein 2	0.0011	1.80	Normal up vs > 5 Years Off IS Tolerant
212751_PM_at	UBE2N	ubiquitin-conjugating enzyme E2N (UBC13 homolog, yeast)	0.0011	1.55	Normal up vs > 5 Years Off IS Tolerant
1570257_PM_x_at	---	---	0.0011	-1.50	Normal down vs > 5 Years Off IS Tolerant
1558496_PM_at	---	---	0.0011	-2.09	Normal down vs > 5 Years Off IS Tolerant
1569591_PM_at	F11	coagulation factor XI	0.0011	-1.27	Normal down vs > 5 Years Off IS Tolerant
243609_PM_at	CYP3A7	cytochrome P450, family 3, subfamily A, polypeptide 7	0.0011	-1.91	Normal down vs > 5 Years Off IS Tolerant
240728_PM_at	PLCB4	Phospholipase C, beta 4	0.0011	-1.75	Normal down vs > 5 Years Off IS Tolerant
225762_PM_x_at	LOC284801	hypothetical protein LOC284801	0.0011	1.77	Normal up vs > 5 Years Off IS Tolerant
1564274_PM_at	C9orf47	chromosome 9 open reading frame 47	0.0011	-1.78	Normal down vs > 5 Years Off IS Tolerant
244150_PM_at	---	---	0.0011	1.38	Normal up vs > 5 Years Off IS Tolerant
1569157_PM_s_at	ZNF846	zinc finger protein 846	0.0011	2.03	Normal up vs > 5 Years Off IS Tolerant
205897_PM_at	NFATC4	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 4	0.0011	-1.38	Normal down vs > 5 Years Off IS Tolerant
215186_PM_at	TBC1D30	TBC1 domain family, member 30	0.0011	-1.62	Normal down vs > 5 Years Off IS Tolerant
235698_PM_at	ZFP90	zinc finger protein 90 homolog (mouse)	0.0011	2.32	Normal up vs > 5 Years Off IS Tolerant
242807_PM_at	FSD1L	fibronectin type III and SPRY domain containing 1-like	0.0011	-2.05	Normal down vs > 5 Years Off IS Tolerant
236323_PM_at	LOC100506555	hypothetical LOC100506555	0.0011	-1.58	Normal down vs > 5 Years Off IS Tolerant
225499_PM_at	RALGAPA2	Ral GTPase activating protein, alpha subunit 2 (catalytic)	0.0011	1.56	Normal up vs > 5 Years Off IS Tolerant
244122_PM_at	MGST3	Microsomal glutathione S-transferase 3	0.0011	-1.45	Normal down vs > 5 Years Off IS Tolerant
205703_PM_at	ATP6V0A2	ATPase, H+ transporting, lysosomal V0 subunit a2	0.0011	-1.31	Normal down vs > 5 Years Off IS Tolerant

202610_PM_s_at	MED14	mediator complex subunit 14	0.0011	1.59	Normal up vs > 5 Years Off IS Tolerant
237882_PM_at	---	---	0.0011	-1.47	Normal down vs > 5 Years Off IS Tolerant
222832_PM_s_at	MFF	mitochondrial fission factor	0.0011	1.51	Normal up vs > 5 Years Off IS Tolerant
213152_PM_s_at	SRSF8	serine/arginine-rich splicing factor 8	0.0011	1.89	Normal up vs > 5 Years Off IS Tolerant
54632_PM_at	THADA	thyroid adenoma associated	0.0011	1.50	Normal up vs > 5 Years Off IS Tolerant
205596_PM_s_at	SMURF2	SMAD specific E3 ubiquitin protein ligase 2	0.0011	1.41	Normal up vs > 5 Years Off IS Tolerant
1555898_PM_at	LOC400986	Protein immuno-reactive with anti-PTH polyclonal antibodies	0.0011	1.51	Normal up vs > 5 Years Off IS Tolerant
223338_PM_s_at	ATPIF1	ATPase inhibitory factor 1	0.0011	1.38	Normal up vs > 5 Years Off IS Tolerant
241365_PM_at	SATB1	SATB homeobox 1	0.0011	2.49	Normal up vs > 5 Years Off IS Tolerant
212995_PM_x_at	MZT2B	mitotic spindle organizing protein 2B	0.0011	1.45	Normal up vs > 5 Years Off IS Tolerant
242606_PM_at	---	---	0.0011	1.61	Normal up vs > 5 Years Off IS Tolerant
1557534_PM_at	LOC339862	hypothetical LOC339862	0.0011	-1.84	Normal down vs > 5 Years Off IS Tolerant
244639_PM_at	---	---	0.0011	-1.46	Normal down vs > 5 Years Off IS Tolerant
222988_PM_s_at	TMEM9	transmembrane protein 9	0.0011	1.71	Normal up vs > 5 Years Off IS Tolerant
236089_PM_at	---	---	0.0011	-1.82	Normal down vs > 5 Years Off IS Tolerant
227409_PM_at	PPP1R3E	protein phosphatase 1, regulatory (inhibitor) subunit 3E	0.0011	1.65	Normal up vs > 5 Years Off IS Tolerant
202662_PM_s_at	ITPR2	inositol 1,4,5-triphosphate receptor, type 2	0.0011	1.69	Normal up vs > 5 Years Off IS Tolerant
1556849_PM_at	---	---	0.0011	1.53	Normal up vs > 5 Years Off IS Tolerant
201601_PM_x_at	IFITM1	interferon induced transmembrane protein 1 (9-27)	0.0011	1.67	Normal up vs > 5 Years Off IS Tolerant
1562696_PM_at	---	---	0.0011	-1.33	Normal down vs > 5 Years Off IS Tolerant
227686_PM_at	OXNAD1	oxidoreductase NAD-binding domain containing 1	0.0011	2.92	Normal up vs > 5 Years Off IS Tolerant
228141_PM_at	GPX8	glutathione peroxidase 8 (putative)	0.0011	-1.33	Normal down vs > 5 Years Off IS Tolerant
242876_PM_at	AKT3	V-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma)	0.0011	1.93	Normal up vs > 5 Years Off IS Tolerant
224492_PM_s_at	ZNF627	zinc finger protein 627	0.0011	1.89	Normal up vs > 5 Years Off IS Tolerant
239611_PM_at	---	---	0.0011	-1.46	Normal down vs > 5 Years Off IS Tolerant
51200_PM_at	C19orf60	chromosome 19 open reading frame 60	0.0011	1.35	Normal up vs > 5 Years Off IS Tolerant
240620_PM_at	---	---	0.0012	-1.56	Normal down vs > 5 Years Off IS Tolerant

232452_PM_at	LOC148824	hypothetical LOC148824	0.0012	-1.52	Normal down vs > 5 Years Off IS Tolerant
230201_PM_at	FXR1	fragile X mental retardation, autosomal homolog 1	0.0012	-1.29	Normal down vs > 5 Years Off IS Tolerant
214088_PM_s_at	FUT3	fucosyltransferase 3 (galactoside 3(4)-L-fucosyltransferase, Lewis blood group)	0.0012	-1.37	Normal down vs > 5 Years Off IS Tolerant
210461_PM_s_at	ABLIM1	actin binding LIM protein 1	0.0012	1.94	Normal up vs > 5 Years Off IS Tolerant
1559911_PM_at	---	---	0.0012	-1.38	Normal down vs > 5 Years Off IS Tolerant
227037_PM_at	PLD6	phospholipase D family, member 6	0.0012	2.03	Normal up vs > 5 Years Off IS Tolerant
230525_PM_at	LOC100509223	hypothetical LOC100509223	0.0012	-1.49	Normal down vs > 5 Years Off IS Tolerant
226433_PM_at	RNF157	ring finger protein 157	0.0012	2.57	Normal up vs > 5 Years Off IS Tolerant
225066_PM_at	PPP2R2D	protein phosphatase 2, regulatory subunit B, delta	0.0012	2.02	Normal up vs > 5 Years Off IS Tolerant
209922_PM_at	BRAP	BRCA1 associated protein	0.0012	2.00	Normal up vs > 5 Years Off IS Tolerant
1557897_PM_at	---	---	0.0012	-1.45	Normal down vs > 5 Years Off IS Tolerant
202163_PM_s_at	CNOT8	CCR4-NOT transcription complex, subunit 8	0.0012	1.33	Normal up vs > 5 Years Off IS Tolerant
224642_PM_at	FYTTD1	forty-two-three domain containing 1	0.0012	2.36	Normal up vs > 5 Years Off IS Tolerant
218249_PM_at	ZDHHC6	zinc finger, DHHC-type containing 6	0.0012	1.31	Normal up vs > 5 Years Off IS Tolerant
243532_PM_at	LNPEP	leucyl/cystinyl aminopeptidase	0.0012	-1.53	Normal down vs > 5 Years Off IS Tolerant
225986_PM_x_at	CPSF2	cleavage and polyadenylation specific factor 2, 100kDa	0.0012	-2.06	Normal down vs > 5 Years Off IS Tolerant
1556663_PM_s_at	---	---	0.0012	-1.37	Normal down vs > 5 Years Off IS Tolerant
241954_PM_at	FDFT1	Farnesyl-diphosphate farnesyltransferase 1	0.0012	1.80	Normal up vs > 5 Years Off IS Tolerant
231383_PM_at	---	---	0.0012	1.37	Normal up vs > 5 Years Off IS Tolerant
205229_PM_s_at	COCH	coagulation factor C homolog, cochlin (Limulus polyphemus)	0.0012	1.67	Normal up vs > 5 Years Off IS Tolerant
211323_PM_s_at	ITPR1	inositol 1,4,5-triphosphate receptor, type 1	0.0012	1.92	Normal up vs > 5 Years Off IS Tolerant
237246_PM_at	---	---	0.0012	2.24	Normal up vs > 5 Years Off IS Tolerant
1557215_PM_at	---	---	0.0012	-1.91	Normal down vs > 5 Years Off IS Tolerant
242769_PM_at	---	---	0.0012	-1.43	Normal down vs > 5 Years Off IS Tolerant
238761_PM_at	ELK4	ELK4, ETS-domain protein (SRF accessory protein 1)	0.0012	1.80	Normal up vs > 5 Years Off IS Tolerant
234294_PM_x_at	GATAD2A	GATA zinc finger domain containing 2A	0.0012	1.45	Normal up vs > 5 Years Off IS Tolerant
201581_PM_at	TMX4	thioredoxin-related transmembrane protein 4	0.0012	1.54	Normal up vs > 5 Years Off IS Tolerant

242022_PM_at	---	---	0.0012	-1.36	Normal down vs > 5 Years Off IS Tolerant
235445_PM_at	---	---	0.0012	-1.49	Normal down vs > 5 Years Off IS Tolerant
227732_PM_at	ATXN7L1	ataxin 7-like 1	0.0012	1.52	Normal up vs > 5 Years Off IS Tolerant
208091_PM_s_at	VOPP1	vesicular, overexpressed in cancer, prosurvival protein 1	0.0012	1.34	Normal up vs > 5 Years Off IS Tolerant
240580_PM_at	---	---	0.0012	-1.70	Normal down vs > 5 Years Off IS Tolerant
204658_PM_at	TRA2A	transformer 2 alpha homolog (Drosophila)	0.0012	1.36	Normal up vs > 5 Years Off IS Tolerant
209004_PM_s_at	FBXL5	F-box and leucine-rich repeat protein 5	0.0012	-1.41	Normal down vs > 5 Years Off IS Tolerant
239201_PM_at	CDK15	cyclin-dependent kinase 15	0.0012	-1.70	Normal down vs > 5 Years Off IS Tolerant
236506_PM_at	---	---	0.0012	1.89	Normal up vs > 5 Years Off IS Tolerant
203364_PM_s_at	ATG13	ATG13 autophagy related 13 homolog (S. cerevisiae)	0.0012	1.46	Normal up vs > 5 Years Off IS Tolerant
206083_PM_at	BAI1	brain-specific angiogenesis inhibitor 1	0.0012	-1.33	Normal down vs > 5 Years Off IS Tolerant
204231_PM_s_at	FAAH	fatty acid amide hydrolase	0.0012	-1.45	Normal down vs > 5 Years Off IS Tolerant
243474_PM_at	---	---	0.0012	-1.50	Normal down vs > 5 Years Off IS Tolerant
207734_PM_at	LAX1	lymphocyte transmembrane adaptor 1	0.0012	1.70	Normal up vs > 5 Years Off IS Tolerant
219657_PM_s_at	KLF3	Kruppel-like factor 3 (basic)	0.0012	1.74	Normal up vs > 5 Years Off IS Tolerant
203868_PM_s_at	VCAM1	vascular cell adhesion molecule 1	0.0012	-1.65	Normal down vs > 5 Years Off IS Tolerant
214022_PM_s_at	IFITM1	interferon induced transmembrane protein 1 (9-27)	0.0012	1.69	Normal up vs > 5 Years Off IS Tolerant
203083_PM_at	THBS2	thrombospondin 2	0.0012	-1.42	Normal down vs > 5 Years Off IS Tolerant
201534_PM_s_at	UBL3	ubiquitin-like 3	0.0012	1.71	Normal up vs > 5 Years Off IS Tolerant
1563271_PM_at	---	---	0.0012	-1.43	Normal down vs > 5 Years Off IS Tolerant
217097_PM_s_at	PHTF2	putative homeodomain transcription factor 2	0.0012	-1.73	Normal down vs > 5 Years Off IS Tolerant
212986_PM_s_at	TLK2	tousled-like kinase 2	0.0012	1.64	Normal up vs > 5 Years Off IS Tolerant
204867_PM_at	GCHFR	GTP cyclohydrolase I feedback regulator	0.0012	1.81	Normal up vs > 5 Years Off IS Tolerant
220877_PM_at	---	---	0.0012	-1.93	Normal down vs > 5 Years Off IS Tolerant
236826_PM_at	TTC39B	Tetratricopeptide repeat domain 39B	0.0012	1.52	Normal up vs > 5 Years Off IS Tolerant

205849_PM_s_at	UQCRB	ubiquinol-cytochrome c reductase binding protein	0.0012	1.31	Normal up vs > 5 Years Off IS Tolerant
202744_PM_at	SLC20A2	solute carrier family 20 (phosphate transporter), member 2	0.0012	1.50	Normal up vs > 5 Years Off IS Tolerant
1560665_PM_at	SCPEP1	serine carboxypeptidase 1	0.0012	-1.50	Normal down vs > 5 Years Off IS Tolerant
240025_PM_x_at	---	---	0.0012	1.99	Normal up vs > 5 Years Off IS Tolerant
217895_PM_at	PTCD3	Pentatricopeptide repeat domain 3	0.0012	1.37	Normal up vs > 5 Years Off IS Tolerant
202371_PM_at	TCEAL4	transcription elongation factor A (SII)-like 4	0.0012	1.83	Normal up vs > 5 Years Off IS Tolerant
220300_PM_at	RGS3	regulator of G-protein signaling 3	0.0012	-1.37	Normal down vs > 5 Years Off IS Tolerant
221061_PM_at	PKD2L1	polycystic kidney disease 2-like 1	0.0012	-1.34	Normal down vs > 5 Years Off IS Tolerant
211753_PM_s_at	RLN1	relaxin 1	0.0012	-1.76	Normal down vs > 5 Years Off IS Tolerant
217805_PM_at	ILF3	interleukin enhancer binding factor 3, 90kDa	0.0012	1.51	Normal up vs > 5 Years Off IS Tolerant
224736_PM_at	CCAR1	cell division cycle and apoptosis regulator 1	0.0012	1.30	Normal up vs > 5 Years Off IS Tolerant
215358_PM_x_at	ZNF37BP	zinc finger protein 37B, pseudogene	0.0012	2.18	Normal up vs > 5 Years Off IS Tolerant
217669_PM_s_at	AKAP6	A kinase (PRKA) anchor protein 6	0.0012	-1.37	Normal down vs > 5 Years Off IS Tolerant
204249_PM_s_at	LMO2	LIM domain only 2 (rhombotin-like 1)	0.0012	-1.66	Normal down vs > 5 Years Off IS Tolerant
209510_PM_at	RNF139	ring finger protein 139	0.0012	1.49	Normal up vs > 5 Years Off IS Tolerant
244491_PM_at	---	---	0.0012	-1.51	Normal down vs > 5 Years Off IS Tolerant
238496_PM_at	---	---	0.0012	1.50	Normal up vs > 5 Years Off IS Tolerant
240828_PM_at	---	---	0.0012	1.55	Normal up vs > 5 Years Off IS Tolerant
239958_PM_at	LOC253039	hypothetical LOC253039	0.0012	-1.37	Normal down vs > 5 Years Off IS Tolerant
220153_PM_at	ENTPD7	ectonucleoside triphosphate diphosphohydrolase 7	0.0012	-1.51	Normal down vs > 5 Years Off IS Tolerant
234008_PM_s_at	CES3	carboxylesterase 3	0.0012	-1.41	Normal down vs > 5 Years Off IS Tolerant
210909_PM_x_at	LPAL2	lipoprotein, Lp(a)-like 2, pseudogene	0.0012	-1.37	Normal down vs > 5 Years Off IS Tolerant
226812_PM_at	---	---	0.0012	-1.35	Normal down vs > 5 Years Off IS Tolerant
242714_PM_at	---	---	0.0012	-2.20	Normal down vs > 5 Years Off IS Tolerant

1560018_PM_at	ARPP21	cAMP-regulated phosphoprotein, 21kDa	0.0012	-1.45	Normal down vs > 5 Years Off IS Tolerant
234254_PM_at	---	---	0.0012	1.39	Normal up vs > 5 Years Off IS Tolerant
213078_PM_x_at	LPCAT4	lysophosphatidylcholine acyltransferase 4	0.0012	1.62	Normal up vs > 5 Years Off IS Tolerant
233424_PM_at	---	---	0.0012	-1.32	Normal down vs > 5 Years Off IS Tolerant
203100_PM_s_at	CDYL	chromodomain protein, Y-like	0.0012	1.60	Normal up vs > 5 Years Off IS Tolerant
242959_PM_at	---	---	0.0012	-1.43	Normal down vs > 5 Years Off IS Tolerant
1566637_PM_at	---	---	0.0012	-2.21	Normal down vs > 5 Years Off IS Tolerant
243154_PM_at	---	---	0.0012	2.03	Normal up vs > 5 Years Off IS Tolerant
1558199_PM_at	FN1	fibronectin 1	0.0012	-1.42	Normal down vs > 5 Years Off IS Tolerant
235848_PM_x_at	---	---	0.0012	1.70	Normal up vs > 5 Years Off IS Tolerant
204757_PM_s_at	C2CD2L	C2CD2-like	0.0012	-1.47	Normal down vs > 5 Years Off IS Tolerant
220739_PM_s_at	CNNM3	cyclin M3	0.0012	1.68	Normal up vs > 5 Years Off IS Tolerant
234993_PM_at	ABHD13	abhydrolase domain containing 13	0.0012	2.52	Normal up vs > 5 Years Off IS Tolerant
201579_PM_at	FAT1	FAT tumor suppressor homolog 1 (Drosophila)	0.0012	-1.39	Normal down vs > 5 Years Off IS Tolerant
228853_PM_at	STYX	serine/threonine/tyrosine interacting protein	0.0012	1.55	Normal up vs > 5 Years Off IS Tolerant
203981_PM_s_at	ABCD4	ATP-binding cassette, sub-family D (ALD), member 4	0.0012	1.55	Normal up vs > 5 Years Off IS Tolerant
1569741_PM_at	---	---	0.0012	-1.38	Normal down vs > 5 Years Off IS Tolerant
226044_PM_at	TDP1	tyrosyl-DNA phosphodiesterase 1	0.0012	1.43	Normal up vs > 5 Years Off IS Tolerant
228395_PM_at	GLT8D1	Glycosyltransferase 8 domain containing 1	0.0012	1.80	Normal up vs > 5 Years Off IS Tolerant
219144_PM_at	DUSP26	dual specificity phosphatase 26 (putative)	0.0012	-1.32	Normal down vs > 5 Years Off IS Tolerant
234606_PM_at	---	---	0.0012	-1.60	Normal down vs > 5 Years Off IS Tolerant
201656_PM_at	ITGA6	integrin, alpha 6	0.0012	2.41	Normal up vs > 5 Years Off IS Tolerant
231048_PM_at	---	---	0.0012	-1.24	Normal down vs > 5 Years Off IS Tolerant
212377_PM_s_at	NOTCH2	notch 2	0.0013	-1.30	Normal down vs > 5 Years Off IS Tolerant
243616_PM_at	---	---	0.0013	-1.37	Normal down vs > 5 Years Off IS Tolerant

207569_PM_at	ROS1	c-ros oncogene 1 , receptor tyrosine kinase	0.0013	-1.41	Normal down vs > 5 Years Off IS Tolerant
228497_PM_at	SLC22A15	solute carrier family 22, member 15	0.0013	-2.13	Normal down vs > 5 Years Off IS Tolerant
242232_PM_at	---	---	0.0013	-2.56	Normal down vs > 5 Years Off IS Tolerant
241225_PM_at	---	---	0.0013	-1.41	Normal down vs > 5 Years Off IS Tolerant
208282_PM_x_at	DAZ1 /// DAZ2 /// DAZ3 /// DAZ4	deleted in azoospermia 1 /// deleted in azoospermia 2 /// deleted in azoospermia 3 ///	0.0013	-1.41	Normal down vs > 5 Years Off IS Tolerant
201857_PM_at	ZFR	zinc finger RNA binding protein	0.0013	1.30	Normal up vs > 5 Years Off IS Tolerant
219098_PM_at	MYBBP1A	MYB binding protein (P160) 1a	0.0013	1.46	Normal up vs > 5 Years Off IS Tolerant
207124_PM_s_at	GNB5	guanine nucleotide binding protein (G protein), beta 5	0.0013	2.34	Normal up vs > 5 Years Off IS Tolerant
221458_PM_at	HTR1F	5-hydroxytryptamine (serotonin) receptor 1F	0.0013	-1.53	Normal down vs > 5 Years Off IS Tolerant
236980_PM_at	---	---	0.0013	-1.66	Normal down vs > 5 Years Off IS Tolerant
1569659_PM_at	LOC100506895	hypothetical LOC100506895	0.0013	-1.39	Normal down vs > 5 Years Off IS Tolerant
208938_PM_at	PRCC	papillary renal cell carcinoma (translocation-associated)	0.0013	1.57	Normal up vs > 5 Years Off IS Tolerant
201004_PM_at	SSR4	signal sequence receptor, delta (translocon-associated protein delta)	0.0013	1.35	Normal up vs > 5 Years Off IS Tolerant
218893_PM_at	ISOC2	isochorismatase domain containing 2	0.0013	-1.51	Normal down vs > 5 Years Off IS Tolerant
1561902_PM_at	---	---	0.0013	-1.33	Normal down vs > 5 Years Off IS Tolerant
1553181_PM_at	DDX31	DEAD (Asp-Glu-Ala-Asp) box polypeptide 31	0.0013	-1.44	Normal down vs > 5 Years Off IS Tolerant
205495_PM_s_at	GNLY	granulysin	0.0013	3.29	Normal up vs > 5 Years Off IS Tolerant
1562722_PM_at	PRR20A /// PRR20B /// PRR20C /// PRR20D /// PRR20E	proline rich 20A /// proline rich 20B /// proline rich 20C /// proline rich 20D /// pro	0.0013	-1.32	Normal down vs > 5 Years Off IS Tolerant
216041_PM_x_at	GRN	granulin	0.0013	-1.68	Normal down vs > 5 Years Off IS Tolerant
214314_PM_s_at	EIF5B	eukaryotic translation initiation factor 5B	0.0013	1.78	Normal up vs > 5 Years Off IS Tolerant

232080_PM_at	HECW2	HECT, C2 and WW domain containing E3 ubiquitin protein ligase 2	0.0013	-1.36	Normal down vs > 5 Years Off IS Tolerant
224957_PM_at	C18orf32	chromosome 18 open reading frame 32	0.0013	1.66	Normal up vs > 5 Years Off IS Tolerant
215328_PM_at	EFR3B	EFR3 homolog B (<i>S. cerevisiae</i>)	0.0013	-1.30	Normal down vs > 5 Years Off IS Tolerant
218919_PM_at	ZFAND1	zinc finger, AN1-type domain 1	0.0013	1.79	Normal up vs > 5 Years Off IS Tolerant
210220_PM_at	FZD2	frizzled homolog 2 (<i>Drosophila</i>)	0.0013	-2.37	Normal down vs > 5 Years Off IS Tolerant
236658_PM_at	---	---	0.0013	-1.28	Normal down vs > 5 Years Off IS Tolerant
211925_PM_s_at	PLCB1	phospholipase C, beta 1 (phosphoinositide-specific)	0.0013	-1.45	Normal down vs > 5 Years Off IS Tolerant
1568924_PM_a_at	IQUB	IQ motif and ubiquitin domain containing	0.0013	-2.33	Normal down vs > 5 Years Off IS Tolerant
236379_PM_at	---	---	0.0013	1.90	Normal up vs > 5 Years Off IS Tolerant
212207_PM_at	MED13L	mediator complex subunit 13-like	0.0013	1.51	Normal up vs > 5 Years Off IS Tolerant
223546_PM_x_at	LUC7L	LUC7-like (<i>S. cerevisiae</i>)	0.0013	1.38	Normal up vs > 5 Years Off IS Tolerant
212610_PM_at	PTPN11	protein tyrosine phosphatase, non-receptor type 11	0.0013	1.29	Normal up vs > 5 Years Off IS Tolerant
237771_PM_s_at	---	---	0.0013	-2.53	Normal down vs > 5 Years Off IS Tolerant
228835_PM_at	---	---	0.0013	1.84	Normal up vs > 5 Years Off IS Tolerant
229881_PM_at	KLF12	Kruppel-like factor 12	0.0013	1.92	Normal up vs > 5 Years Off IS Tolerant
229679_PM_at	C12orf76 /// LOC100510175	chromosome 12 open reading frame 76 /// hypothetical LOC100510175	0.0013	1.85	Normal up vs > 5 Years Off IS Tolerant
226111_PM_s_at	ZNF385A	zinc finger protein 385A	0.0013	-1.53	Normal down vs > 5 Years Off IS Tolerant
239473_PM_x_at	LOC100288104	Hypothetical protein LOC100288104	0.0013	-1.44	Normal down vs > 5 Years Off IS Tolerant
1553619_PM_a_at	TRIM43 /// TRIM43B	tripartite motif-containing 43 /// tripartite motif- containing 43B	0.0013	-1.54	Normal down vs > 5 Years Off IS Tolerant
216185_PM_at	FUT9	Fucosyltransferase 9 (alpha (1,3) fucosyltransferase)	0.0013	-1.28	Normal down vs > 5 Years Off IS Tolerant
210070_PM_s_at	CHKB-CPT1B /// CPT1B	choline kinase-like, carnitine palmitoyltransferase 1B (muscle) transcription unit ///	0.0013	2.28	Normal up vs > 5 Years Off IS Tolerant
218579_PM_s_at	DHX35	DEAH (Asp-Glu-Ala-His) box polypeptide 35	0.0013	1.36	Normal up vs > 5 Years Off IS Tolerant
1562270_PM_at	ARHGEF7	Rho guanine nucleotide exchange factor (GEF) 7	0.0013	1.73	Normal up vs > 5 Years Off IS Tolerant
215851_PM_at	MECOM	MDS1 and EVI1 complex locus	0.0013	-1.54	Normal down vs > 5 Years Off IS Tolerant
239709_PM_at	---	---	0.0013	1.77	Normal up vs > 5 Years Off IS Tolerant

1554057_PM_at	LOC645676	hypothetical LOC645676	0.0013	1.78	Normal up vs > 5 Years Off IS Tolerant
203704_PM_s_at	RREB1	ras responsive element binding protein 1	0.0013	1.26	Normal up vs > 5 Years Off IS Tolerant
1560382_PM_at	GAB1	GRB2-associated binding protein 1	0.0013	-1.33	Normal down vs > 5 Years Off IS Tolerant
221535_PM_at	LSG1	large subunit GTPase 1 homolog (S. cerevisiae)	0.0013	1.69	Normal up vs > 5 Years Off IS Tolerant
227484_PM_at	SRGAP1	SLIT-ROBO Rho GTPase activating protein 1	0.0013	-1.47	Normal down vs > 5 Years Off IS Tolerant
243085_PM_at	---	---	0.0013	-1.46	Normal down vs > 5 Years Off IS Tolerant
234964_PM_at	TRD@	T cell receptor delta locus	0.0013	1.92	Normal up vs > 5 Years Off IS Tolerant
204891_PM_s_at	LCK	lymphocyte-specific protein tyrosine kinase	0.0013	2.27	Normal up vs > 5 Years Off IS Tolerant
240618_PM_at	PTPRA	Protein tyrosine phosphatase, receptor type, A	0.0013	-1.28	Normal down vs > 5 Years Off IS Tolerant
243457_PM_s_at	ZNF214	zinc finger protein 214	0.0013	-1.32	Normal down vs > 5 Years Off IS Tolerant
202467_PM_s_at	COPS2	COP9 constitutive photomorphogenic homolog subunit 2 (Arabidopsis)	0.0013	1.42	Normal up vs > 5 Years Off IS Tolerant
223618_PM_at	FMN2	formin 2	0.0013	-1.70	Normal down vs > 5 Years Off IS Tolerant
220999_PM_s_at	CYFIP2	cytoplasmic FMR1 interacting protein 2	0.0013	1.80	Normal up vs > 5 Years Off IS Tolerant
233644_PM_at	KATNAL2	katanin p60 subunit A-like 2	0.0013	-1.32	Normal down vs > 5 Years Off IS Tolerant
208374_PM_s_at	CAPZA1	capping protein (actin filament) muscle Z-line, alpha 1	0.0014	-1.23	Normal down vs > 5 Years Off IS Tolerant
204794_PM_at	DUSP2	dual specificity phosphatase 2	0.0014	3.31	Normal up vs > 5 Years Off IS Tolerant
1560662_PM_s_at	WHAMML1 /// WHAMML2	WAS protein homolog associated with actin, golgi membranes and microtubules-like 1 (pse	0.0014	2.13	Normal up vs > 5 Years Off IS Tolerant
223248_PM_at	HSDL1	hydroxysteroid dehydrogenase like 1	0.0014	1.86	Normal up vs > 5 Years Off IS Tolerant
231339_PM_at	TSPYL6	TSPY-like 6	0.0014	-1.44	Normal down vs > 5 Years Off IS Tolerant
213974_PM_at	ADAMTSL3	ADAMTS-like 3	0.0014	-1.45	Normal down vs > 5 Years Off IS Tolerant
216823_PM_at	RPS3A	ribosomal protein S3A	0.0014	1.33	Normal up vs > 5 Years Off IS Tolerant
207074_PM_s_at	SLC18A1	solute carrier family 18 (vesicular monoamine), member 1	0.0014	-1.32	Normal down vs > 5 Years Off IS Tolerant
240114_PM_s_at	TMEM174	transmembrane protein 174	0.0014	-1.41	Normal down vs > 5 Years Off IS Tolerant
239315_PM_at	FAM115C	family with sequence similarity 115, member C	0.0014	-1.47	Normal down vs > 5 Years Off IS Tolerant

226830_PM_x_at	CHD2	Chromodomain helicase DNA binding protein 2	0.0014	1.58	Normal up vs > 5 Years Off IS Tolerant
204425_PM_at	ARHGAP4	Rho GTPase activating protein 4	0.0014	1.55	Normal up vs > 5 Years Off IS Tolerant
202455_PM_at	HDAC5	histone deacetylase 5	0.0014	1.61	Normal up vs > 5 Years Off IS Tolerant
202451_PM_at	GTF2H1	general transcription factor IIH, polypeptide 1, 62kDa	0.0014	-1.93	Normal down vs > 5 Years Off IS Tolerant
41858_PM_at	PGAP2	post-GPI attachment to proteins 2	0.0014	1.50	Normal up vs > 5 Years Off IS Tolerant
1564424_PM_at	---	---	0.0014	2.84	Normal up vs > 5 Years Off IS Tolerant
236921_PM_at	---	---	0.0014	1.81	Normal up vs > 5 Years Off IS Tolerant
206612_PM_at	CACNG1	calcium channel, voltage-dependent, gamma subunit 1	0.0014	-1.41	Normal down vs > 5 Years Off IS Tolerant
1562447_PM_a_at	---	---	0.0014	-1.37	Normal down vs > 5 Years Off IS Tolerant
221191_PM_at	STAG3L1	stromal antigen 3-like 1	0.0014	1.66	Normal up vs > 5 Years Off IS Tolerant
218776_PM_s_at	TMEM62	transmembrane protein 62	0.0014	1.50	Normal up vs > 5 Years Off IS Tolerant
205689_PM_at	PCNXL2	pecanex-like 2 (Drosophila)	0.0014	1.61	Normal up vs > 5 Years Off IS Tolerant
224233_PM_s_at	MSTO1 /// MSTO2P	misato homolog 1 (Drosophila) /// misato homolog 2 pseudogene	0.0014	1.54	Normal up vs > 5 Years Off IS Tolerant
231958_PM_at	C3orf31	Chromosome 3 open reading frame 31	0.0014	1.66	Normal up vs > 5 Years Off IS Tolerant
225125_PM_at	MMGT1	membrane magnesium transporter 1	0.0014	1.51	Normal up vs > 5 Years Off IS Tolerant
223282_PM_at	TSHZ1	teashirt zinc finger homeobox 1	0.0014	1.89	Normal up vs > 5 Years Off IS Tolerant
215714_PM_s_at	SMARCA4	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a	0.0014	1.63	Normal up vs > 5 Years Off IS Tolerant
229034_PM_at	SOBP	sine oculis binding protein homolog (Drosophila)	0.0014	-1.33	Normal down vs > 5 Years Off IS Tolerant
1554784_PM_at	CNTN1	contactin 1	0.0014	-1.36	Normal down vs > 5 Years Off IS Tolerant
209103_PM_s_at	UFD1L	ubiquitin fusion degradation 1 like (yeast)	0.0014	1.47	Normal up vs > 5 Years Off IS Tolerant
225512_PM_at	ZBTB38	zinc finger and BTB domain containing 38	0.0014	2.21	Normal up vs > 5 Years Off IS Tolerant
216698_PM_x_at	OR7E35P /// OR7E37P	olfactory receptor, family 7, subfamily E, member 35 pseudogene /// olfactory receptor,	0.0014	-1.45	Normal down vs > 5 Years Off IS Tolerant
203495_PM_at	LRRC14	leucine rich repeat containing 14	0.0014	1.35	Normal up vs > 5 Years Off IS Tolerant
233602_PM_at	---	---	0.0014	-1.41	Normal down vs > 5 Years Off IS Tolerant
1566162_PM_x_at	---	---	0.0014	-1.49	Normal down vs > 5 Years Off IS Tolerant
206147_PM_x_at	SCML2	sex comb on midleg-like 2 (Drosophila)	0.0014	1.59	Normal up vs > 5 Years Off IS Tolerant
203528_PM_at	SEMA4D	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic	0.0014	1.38	Normal up vs > 5 Years Off IS Tolerant

237284_PM_at	DNAJB8	DnaJ (Hsp40) homolog, subfamily B, member 8	0.0014	-1.29	Normal down vs > 5 Years Off IS Tolerant
204446_PM_s_at	ALOX5	arachidonate 5-lipoxygenase	0.0014	-1.42	Normal down vs > 5 Years Off IS Tolerant
226596_PM_x_at	LOC729852	hypothetical LOC729852	0.0014	1.85	Normal up vs > 5 Years Off IS Tolerant
231118_PM_at	ANKRD35	ankyrin repeat domain 35	0.0014	-1.47	Normal down vs > 5 Years Off IS Tolerant
234517_PM_at	---	---	0.0014	-1.59	Normal down vs > 5 Years Off IS Tolerant
206166_PM_s_at	CLCA2	chloride channel accessory 2	0.0014	-1.47	Normal down vs > 5 Years Off IS Tolerant
1556874_PM_a_at	MEX3C	mex-3 homolog C (C. elegans)	0.0014	2.42	Normal up vs > 5 Years Off IS Tolerant
224815_PM_at	COMM7	COMM domain containing 7	0.0014	1.33	Normal up vs > 5 Years Off IS Tolerant
235452_PM_at	---	---	0.0014	1.63	Normal up vs > 5 Years Off IS Tolerant
202205_PM_at	VASP	vasodilator-stimulated phosphoprotein	0.0014	-1.36	Normal down vs > 5 Years Off IS Tolerant
220779_PM_at	PADI3	peptidyl arginine deiminase, type III	0.0014	-1.29	Normal down vs > 5 Years Off IS Tolerant
1558728_PM_at	LOC100128881	hypothetical LOC100128881	0.0014	-1.53	Normal down vs > 5 Years Off IS Tolerant
244677_PM_at	---	---	0.0014	1.92	Normal up vs > 5 Years Off IS Tolerant
225643_PM_at	MAPK1IP1L	mitogen-activated protein kinase 1 interacting protein 1-like	0.0014	1.51	Normal up vs > 5 Years Off IS Tolerant
228055_PM_at	NAPSB	napsin B aspartic peptidase pseudogene	0.0014	-2.25	Normal down vs > 5 Years Off IS Tolerant
221400_PM_at	MYO3A	myosin IIIA	0.0014	-1.35	Normal down vs > 5 Years Off IS Tolerant
202427_PM_s_at	BRP44	brain protein 44	0.0014	1.50	Normal up vs > 5 Years Off IS Tolerant
213000_PM_at	MORC3	MORC family CW-type zinc finger 3	0.0014	1.62	Normal up vs > 5 Years Off IS Tolerant
212078_PM_s_at	MLL	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila)	0.0014	1.53	Normal up vs > 5 Years Off IS Tolerant
1555889_PM_a_at	CRTAP	cartilage associated protein	0.0014	-1.47	Normal down vs > 5 Years Off IS Tolerant
204829_PM_s_at	FOLR2	folate receptor 2 (fetal)	0.0014	-1.62	Normal down vs > 5 Years Off IS Tolerant
221019_PM_s_at	COLEC12	collectin sub-family member 12	0.0014	-1.33	Normal down vs > 5 Years Off IS Tolerant
233508_PM_at	MAP3K13	mitogen-activated protein kinase kinase kinase 13	0.0014	-1.31	Normal down vs > 5 Years Off IS Tolerant

203366_PM_at	POLG	polymerase (DNA directed), gamma	0.0014	1.27	Normal up vs > 5 Years Off IS Tolerant
234934_PM_at	---	---	0.0014	-1.52	Normal down vs > 5 Years Off IS Tolerant
229070_PM_at	C6orf105	chromosome 6 open reading frame 105	0.0014	3.34	Normal up vs > 5 Years Off IS Tolerant
229501_PM_s_at	USP8	ubiquitin specific peptidase 8	0.0014	1.52	Normal up vs > 5 Years Off IS Tolerant
241785_PM_at	---	---	0.0014	-1.38	Normal down vs > 5 Years Off IS Tolerant
206071_PM_s_at	EPHA3	EPH receptor A3	0.0014	-1.26	Normal down vs > 5 Years Off IS Tolerant
204383_PM_at	DGCR14	DiGeorge syndrome critical region gene 14	0.0014	1.91	Normal up vs > 5 Years Off IS Tolerant
225546_PM_at	EEF2K	eukaryotic elongation factor-2 kinase	0.0014	1.54	Normal up vs > 5 Years Off IS Tolerant
227677_PM_at	JAK3	Janus kinase 3	0.0014	1.54	Normal up vs > 5 Years Off IS Tolerant
1556727_PM_at	PRCD	progressive rod-cone degeneration	0.0014	-1.40	Normal down vs > 5 Years Off IS Tolerant
227047_PM_x_at	ZBTB4	zinc finger and BTB domain containing 4	0.0014	1.41	Normal up vs > 5 Years Off IS Tolerant
1556620_PM_at	---	---	0.0014	-1.40	Normal down vs > 5 Years Off IS Tolerant
204698_PM_at	ISG20	interferon stimulated exonuclease gene 20kDa	0.0014	1.71	Normal up vs > 5 Years Off IS Tolerant
235308_PM_at	ZBTB20	zinc finger and BTB domain containing 20	0.0014	1.53	Normal up vs > 5 Years Off IS Tolerant
226206_PM_at	MAFK	v-maf musculoaponeurotic fibrosarcoma oncogene homolog K (avian)	0.0014	1.81	Normal up vs > 5 Years Off IS Tolerant
227248_PM_at	PLEKHH3	pleckstrin homology domain containing, family H (with MyTH4 domain) member 3	0.0014	-1.37	Normal down vs > 5 Years Off IS Tolerant
242699_PM_at	---	---	0.0014	-1.33	Normal down vs > 5 Years Off IS Tolerant
219608_PM_s_at	FBXO38	F-box protein 38	0.0014	-1.45	Normal down vs > 5 Years Off IS Tolerant
223596_PM_at	SLC12A6	solute carrier family 12 (potassium/chloride transporters), member 6	0.0015	2.44	Normal up vs > 5 Years Off IS Tolerant
205140_PM_at	FPGT	fucose-1-phosphate guanylyltransferase	0.0015	-2.06	Normal down vs > 5 Years Off IS Tolerant
204031_PM_s_at	PCBP2	poly(rC) binding protein 2	0.0015	1.28	Normal up vs > 5 Years Off IS Tolerant
1562608_PM_at	---	---	0.0015	-1.97	Normal down vs > 5 Years Off IS Tolerant
217779_PM_s_at	LOC100505603 /// PNRC2	proline-rich nuclear receptor coactivator 2-like /// proline-rich nuclear receptor coac	0.0015	1.27	Normal up vs > 5 Years Off IS Tolerant
212310_PM_at	MIA3	melanoma inhibitory activity family, member 3	0.0015	1.79	Normal up vs > 5 Years Off IS Tolerant
1557835_PM_at	---	---	0.0015	1.96	Normal up vs > 5 Years Off IS Tolerant
209315_PM_at	HBS1L	HBS1-like (<i>S. cerevisiae</i>)	0.0015	1.85	Normal up vs > 5 Years Off IS Tolerant

223015_PM_at	EIF2A	eukaryotic translation initiation factor 2A, 65kDa	0.0015	1.27	Normal up vs > 5 Years Off IS Tolerant
218252_PM_at	CKAP2	cytoskeleton associated protein 2	0.0015	1.96	Normal up vs > 5 Years Off IS Tolerant
1555976_PM_s_at	---	---	0.0015	1.94	Normal up vs > 5 Years Off IS Tolerant
226369_PM_at	LOC338799	hypothetical LOC338799	0.0015	1.72	Normal up vs > 5 Years Off IS Tolerant
222259_PM_s_at	SPO11	SPO11 meiotic protein covalently bound to DSB homolog (<i>S. cerevisiae</i>)	0.0015	-1.34	Normal down vs > 5 Years Off IS Tolerant
224166_PM_at	SLC25A2	solute carrier family 25 (mitochondrial carrier; ornithine transporter) member 2	0.0015	-1.33	Normal down vs > 5 Years Off IS Tolerant
200706_PM_s_at	LITAF	lipopolysaccharide-induced TNF factor	0.0015	1.68	Normal up vs > 5 Years Off IS Tolerant
244395_PM_at	FLJ41455	hypothetical gene supported by AK123449; BX641014	0.0015	-2.03	Normal down vs > 5 Years Off IS Tolerant
208318_PM_s_at	XYLB	xylulokinase homolog (<i>H. influenzae</i>)	0.0015	-1.28	Normal down vs > 5 Years Off IS Tolerant
233299_PM_at	RIMS4	regulating synaptic membrane exocytosis 4	0.0015	-1.37	Normal down vs > 5 Years Off IS Tolerant
121_PM_at	PAX8	paired box 8	0.0015	-1.59	Normal down vs > 5 Years Off IS Tolerant
231218_PM_at	---	---	0.0015	1.50	Normal up vs > 5 Years Off IS Tolerant
221702_PM_s_at	TM2D3	TM2 domain containing 3	0.0015	1.68	Normal up vs > 5 Years Off IS Tolerant
220246_PM_at	CAMK1D	calcium/calmodulin-dependent protein kinase ID	0.0015	1.89	Normal up vs > 5 Years Off IS Tolerant
1552323_PM_s_at	FAM122C	family with sequence similarity 122C	0.0015	1.90	Normal up vs > 5 Years Off IS Tolerant
1567248_PM_at	OR9A1P	olfactory receptor, family 9, subfamily A, member 1 pseudogene	0.0015	-1.29	Normal down vs > 5 Years Off IS Tolerant
233066_PM_at	---	---	0.0015	-1.70	Normal down vs > 5 Years Off IS Tolerant
224285_PM_at	GPR174	G protein-coupled receptor 174	0.0015	1.41	Normal up vs > 5 Years Off IS Tolerant
240185_PM_at	LOC100147773	hypothetical LOC100147773	0.0015	-1.34	Normal down vs > 5 Years Off IS Tolerant
218575_PM_at	ANAPC1	anaphase promoting complex subunit 1	0.0015	1.70	Normal up vs > 5 Years Off IS Tolerant
218116_PM_at	C9orf78	chromosome 9 open reading frame 78	0.0015	1.64	Normal up vs > 5 Years Off IS Tolerant
240231_PM_at	---	---	0.0015	2.22	Normal up vs > 5 Years Off IS Tolerant
226052_PM_at	BRD4	bromodomain containing 4	0.0015	1.22	Normal up vs > 5 Years Off IS Tolerant
201016_PM_at	EIF1AX	eukaryotic translation initiation factor 1A, X-linked	0.0015	2.26	Normal up vs > 5 Years Off IS Tolerant
217819_PM_at	GOLGA7	golgin A7	0.0015	1.33	Normal up vs > 5 Years Off IS Tolerant
231120_PM_x_at	PKIB	protein kinase (cAMP-dependent, catalytic) inhibitor beta	0.0015	-1.45	Normal down vs > 5 Years Off IS Tolerant
237264_PM_at	---	---	0.0015	-1.82	Normal down vs > 5 Years Off IS Tolerant

219943_PM_s_at	USP46	ubiquitin specific peptidase 46	0.0015	-1.53	Normal down vs > 5 Years Off IS Tolerant
208456_PM_s_at	RRAS2	related RAS viral (r-ras) oncogene homolog 2	0.0015	2.25	Normal up vs > 5 Years Off IS Tolerant
204507_PM_s_at	PPP3R1	protein phosphatase 3, regulatory subunit B, alpha	0.0015	2.56	Normal up vs > 5 Years Off IS Tolerant
239097_PM_at	C9orf4	chromosome 9 open reading frame 4	0.0015	-1.56	Normal down vs > 5 Years Off IS Tolerant
239775_PM_at	---	---	0.0015	1.79	Normal up vs > 5 Years Off IS Tolerant
224746_PM_at	KIAA1522	KIAA1522	0.0015	-1.45	Normal down vs > 5 Years Off IS Tolerant
238979_PM_at	LOC100505606	hypothetical LOC100505606	0.0015	-1.39	Normal down vs > 5 Years Off IS Tolerant
229483_PM_at	---	---	0.0015	1.75	Normal up vs > 5 Years Off IS Tolerant
1560654_PM_at	FLJ37201	tigger transposable element derived 2 pseudogene	0.0015	-1.62	Normal down vs > 5 Years Off IS Tolerant
223470_PM_at	PIGM	phosphatidylinositol glycan anchor biosynthesis, class M	0.0015	-1.82	Normal down vs > 5 Years Off IS Tolerant
212187_PM_x_at	PTGDS	prostaglandin D2 synthase 21kDa (brain)	0.0015	2.74	Normal up vs > 5 Years Off IS Tolerant
208440_PM_at	C3orf27	chromosome 3 open reading frame 27	0.0015	-1.29	Normal down vs > 5 Years Off IS Tolerant
200844_PM_s_at	PRDX6	peroxiredoxin 6	0.0015	1.42	Normal up vs > 5 Years Off IS Tolerant
229098_PM_s_at	C5orf24	Chromosome 5 open reading frame 24	0.0015	-1.31	Normal down vs > 5 Years Off IS Tolerant
216538_PM_at	---	---	0.0015	1.69	Normal up vs > 5 Years Off IS Tolerant
216769_PM_x_at	---	---	0.0015	-1.47	Normal down vs > 5 Years Off IS Tolerant
232914_PM_s_at	SYTL2	synaptotagmin-like 2	0.0015	2.50	Normal up vs > 5 Years Off IS Tolerant
1569722_PM_s_at	LOC219731	hypothetical LOC219731	0.0015	-1.28	Normal down vs > 5 Years Off IS Tolerant
233274_PM_at	---	---	0.0015	1.51	Normal up vs > 5 Years Off IS Tolerant
211438_PM_at	TRHR	thyrotropin-releasing hormone receptor	0.0015	-1.56	Normal down vs > 5 Years Off IS Tolerant
207956_PM_x_at	PDS5B	PDS5, regulator of cohesion maintenance, homolog B (S. cerevisiae)	0.0015	1.36	Normal up vs > 5 Years Off IS Tolerant
244831_PM_at	---	---	0.0015	-1.35	Normal down vs > 5 Years Off IS Tolerant
202002_PM_at	ACAA2	acetyl-CoA acyltransferase 2	0.0015	-1.70	Normal down vs > 5 Years Off IS Tolerant
201908_PM_at	DVL3	dishevelled, dsh homolog 3 (Drosophila)	0.0015	1.59	Normal up vs > 5 Years Off IS Tolerant
209538_PM_at	ZNF32	zinc finger protein 32	0.0015	1.73	Normal up vs > 5 Years Off IS Tolerant

226988_PM_s_at	MYH14	myosin, heavy chain 14, non-muscle	0.0015	-1.34	Normal down vs > 5 Years Off IS Tolerant
236294_PM_at	HUWE1	HECT, UBA and WWE domain containing 1	0.0015	1.48	Normal up vs > 5 Years Off IS Tolerant
231991_PM_at	C20orf160	chromosome 20 open reading frame 160	0.0015	-1.42	Normal down vs > 5 Years Off IS Tolerant
214049_PM_x_at	CD7	CD7 molecule	0.0015	1.48	Normal up vs > 5 Years Off IS Tolerant
227006_PM_at	PPP1R14A	protein phosphatase 1, regulatory (inhibitor) subunit 14A	0.0015	1.66	Normal up vs > 5 Years Off IS Tolerant
216193_PM_at	---	---	0.0015	-1.75	Normal down vs > 5 Years Off IS Tolerant
219172_PM_at	UBTD1	ubiquitin domain containing 1	0.0015	-1.41	Normal down vs > 5 Years Off IS Tolerant
1556352_PM_at	---	---	0.0015	-2.27	Normal down vs > 5 Years Off IS Tolerant
214142_PM_at	ZG16	zymogen granule protein 16 homolog (rat)	0.0015	-1.29	Normal down vs > 5 Years Off IS Tolerant
233928_PM_at	---	---	0.0016	-1.35	Normal down vs > 5 Years Off IS Tolerant
238835_PM_at	---	---	0.0016	-1.45	Normal down vs > 5 Years Off IS Tolerant
233393_PM_at	---	---	0.0016	1.48	Normal up vs > 5 Years Off IS Tolerant
221271_PM_at	IL21	interleukin 21	0.0016	-1.37	Normal down vs > 5 Years Off IS Tolerant
201566_PM_x_at	ID2	inhibitor of DNA binding 2, dominant negative helix-loop-helix protein	0.0016	1.56	Normal up vs > 5 Years Off IS Tolerant
202976_PM_s_at	RHOBTB3	Rho-related BTB domain containing 3	0.0016	1.97	Normal up vs > 5 Years Off IS Tolerant
1555427_PM_s_at	SYNCRIP	synaptotagmin binding, cytoplasmic RNA interacting protein	0.0016	1.64	Normal up vs > 5 Years Off IS Tolerant
1569876_PM_at	C17orf57	chromosome 17 open reading frame 57	0.0016	-1.41	Normal down vs > 5 Years Off IS Tolerant
1558720_PM_at	---	---	0.0016	-1.43	Normal down vs > 5 Years Off IS Tolerant
202098_PM_s_at	PRMT2	protein arginine methyltransferase 2	0.0016	1.79	Normal up vs > 5 Years Off IS Tolerant
216600_PM_x_at	ALDOB	Aldolase B, fructose-bisphosphate	0.0016	-1.47	Normal down vs > 5 Years Off IS Tolerant
213505_PM_s_at	SUGP2	SURP and G patch domain containing 2	0.0016	1.40	Normal up vs > 5 Years Off IS Tolerant
226290_PM_at	BDP1	B double prime 1, subunit of RNA polymerase III transcription initiation factor IIIB	0.0016	1.63	Normal up vs > 5 Years Off IS Tolerant

212715_PM_s_at	MICAL3	microtubule associated monooxygenase, calponin and LIM domain containing 3	0.0016	2.02	Normal up vs > 5 Years Off IS Tolerant
203788_PM_s_at	SEMA3C	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3C	0.0016	-1.33	Normal down vs > 5 Years Off IS Tolerant
214709_PM_s_at	KTN1	kinectin 1 (kinesin receptor)	0.0016	1.26	Normal up vs > 5 Years Off IS Tolerant
212885_PM_at	MPHOSPH10	M-phase phosphoprotein 10 (U3 small nucleolar ribonucleoprotein)	0.0016	1.56	Normal up vs > 5 Years Off IS Tolerant
229895_PM_s_at	NCK1	NCK adaptor protein 1	0.0016	-1.65	Normal down vs > 5 Years Off IS Tolerant
238373_PM_at	H1FNT	H1 histone family, member N, testis-specific	0.0016	-1.28	Normal down vs > 5 Years Off IS Tolerant
239285_PM_at	---	---	0.0016	2.02	Normal up vs > 5 Years Off IS Tolerant
227880_PM_s_at	LOC100506205 /// TMEM185A	transmembrane protein 185A-like /// transmembrane protein 185A	0.0016	1.80	Normal up vs > 5 Years Off IS Tolerant
220423_PM_at	PLA2G2D	phospholipase A2, group IID	0.0016	-1.36	Normal down vs > 5 Years Off IS Tolerant
220106_PM_at	NPC1L1	NPC1 (Niemann-Pick disease, type C1, gene)-like 1	0.0016	-1.26	Normal down vs > 5 Years Off IS Tolerant
240423_PM_at	LOC441204	hypothetical locus LOC441204	0.0016	-1.32	Normal down vs > 5 Years Off IS Tolerant
227212_PM_s_at	PHF19	PHD finger protein 19	0.0016	2.19	Normal up vs > 5 Years Off IS Tolerant
227593_PM_at	FLJ37453	hypothetical LOC729614	0.0016	1.64	Normal up vs > 5 Years Off IS Tolerant
1557285_PM_at	AREGB	Amphiregulin B	0.0016	4.70	Normal up vs > 5 Years Off IS Tolerant
222481_PM_at	FXC1	fracture callus 1 homolog (rat)	0.0016	1.59	Normal up vs > 5 Years Off IS Tolerant
203633_PM_at	CPT1A	carnitine palmitoyltransferase 1A (liver)	0.0016	-1.65	Normal down vs > 5 Years Off IS Tolerant
240492_PM_at	---	---	0.0016	-1.38	Normal down vs > 5 Years Off IS Tolerant
202828_PM_s_at	MMP14	matrix metalloproteinase 14 (membrane-inserted)	0.0016	-1.60	Normal down vs > 5 Years Off IS Tolerant
1561310_PM_at	---	---	0.0016	-1.51	Normal down vs > 5 Years Off IS Tolerant
1566569_PM_at	---	---	0.0016	-1.45	Normal down vs > 5 Years Off IS Tolerant
233098_PM_s_at	EPB41L4B	erythrocyte membrane protein band 4.1 like 4B	0.0016	-1.27	Normal down vs > 5 Years Off IS Tolerant
1557771_PM_at	FHAD1	forkhead-associated (FHA) phosphopeptide binding domain 1	0.0016	-1.27	Normal down vs > 5 Years Off IS Tolerant

230938_PM_x_at	ATF5	activating transcription factor 5	0.0016	-1.60	Normal down vs > 5 Years Off IS Tolerant
238125_PM_at	ADAMTS16	ADAM metallopeptidase with thrombospondin type 1 motif, 16	0.0016	-1.31	Normal down vs > 5 Years Off IS Tolerant
203915_PM_at	CXCL9	chemokine (C-X-C motif) ligand 9	0.0016	-1.59	Normal down vs > 5 Years Off IS Tolerant
1559600_PM_at	---	---	0.0016	-1.70	Normal down vs > 5 Years Off IS Tolerant
212578_PM_x_at	LOC100505503 /// RPS17	40S ribosomal protein S17-like /// ribosomal protein S17	0.0016	1.22	Normal up vs > 5 Years Off IS Tolerant
203049_PM_s_at	TTC37	tetratricopeptide repeat domain 37	0.0016	1.72	Normal up vs > 5 Years Off IS Tolerant
228348_PM_at	LINS	lines homolog (Drosophila)	0.0016	1.90	Normal up vs > 5 Years Off IS Tolerant
201663_PM_s_at	SMC4	structural maintenance of chromosomes 4	0.0016	1.93	Normal up vs > 5 Years Off IS Tolerant
1561293_PM_at	LOC100287584	Hypothetical protein LOC100287584	0.0016	-1.49	Normal down vs > 5 Years Off IS Tolerant
225693_PM_s_at	CAMTA1	calmodulin binding transcription activator 1	0.0016	1.40	Normal up vs > 5 Years Off IS Tolerant
1552876_PM_at	C21orf89	chromosome 21 open reading frame 89	0.0016	-1.46	Normal down vs > 5 Years Off IS Tolerant
239710_PM_at	FIGN	fidgetin	0.0016	-1.55	Normal down vs > 5 Years Off IS Tolerant
229426_PM_at	COX5A	cytochrome c oxidase subunit Va	0.0016	1.64	Normal up vs > 5 Years Off IS Tolerant
211071_PM_s_at	MLLT11	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocate	0.0016	1.68	Normal up vs > 5 Years Off IS Tolerant
236134_PM_at	DCAF7	DDB1 and CUL4 associated factor 7	0.0016	1.70	Normal up vs > 5 Years Off IS Tolerant
225969_PM_at	ALKBH6	alkB, alkylation repair homolog 6 (E. coli)	0.0016	1.64	Normal up vs > 5 Years Off IS Tolerant
210296_PM_s_at	PEX2	peroxisomal biogenesis factor 2	0.0016	1.75	Normal up vs > 5 Years Off IS Tolerant
223267_PM_at	RG9MTD1	RNA (guanine-9-) methyltransferase domain containing 1	0.0016	2.08	Normal up vs > 5 Years Off IS Tolerant
201287_PM_s_at	SDC1	syndecan 1	0.0016	-1.27	Normal down vs > 5 Years Off IS Tolerant
244211_PM_at	---	---	0.0016	-1.47	Normal down vs > 5 Years Off IS Tolerant
207577_PM_at	HTR4	5-hydroxytryptamine (serotonin) receptor 4	0.0016	-1.48	Normal down vs > 5 Years Off IS Tolerant
221392_PM_at	TAS2R4	taste receptor, type 2, member 4	0.0016	-1.57	Normal down vs > 5 Years Off IS Tolerant
221682_PM_s_at	PCDHGB6	protocadherin gamma subfamily B, 6	0.0016	-1.57	Normal down vs > 5 Years Off IS Tolerant
200622_PM_x_at	CALM3	calmodulin 3 (phosphorylase kinase, delta)	0.0016	1.53	Normal up vs > 5 Years Off IS Tolerant

227696_PM_at	LOC100271836 /// LOC440354 /// LOC595101 /// LOC641298 /// SMG1	SMG1 homolog, phosphatidylinositol 3-kinase-related kinase pseudogene /// PI-3-kinase-r	0.0016	1.59	Normal up vs > 5 Years Off IS Tolerant
214958_PM_s_at	TMC6	transmembrane channel-like 6	0.0016	1.54	Normal up vs > 5 Years Off IS Tolerant
215485_PM_s_at	ICAM1	intercellular adhesion molecule 1	0.0016	2.33	Normal up vs > 5 Years Off IS Tolerant
213356_PM_x_at	HNRNPA1 /// HNRNPA1L2 /// HNRNPA1P10	heterogeneous nuclear ribonucleoprotein A1 /// heterogeneous nuclear ribonucleoprotein	0.0016	1.13	Normal up vs > 5 Years Off IS Tolerant
219072_PM_at	BCL7C	B-cell CLL/lymphoma 7C	0.0016	1.49	Normal up vs > 5 Years Off IS Tolerant
204924_PM_at	TLR2	toll-like receptor 2	0.0016	-1.68	Normal down vs > 5 Years Off IS Tolerant
202585_PM_s_at	NFX1	nuclear transcription factor, X-box binding 1	0.0016	1.75	Normal up vs > 5 Years Off IS Tolerant
1554876_PM_a_at	S100Z	S100 calcium binding protein Z	0.0016	-2.07	Normal down vs > 5 Years Off IS Tolerant
244865_PM_at	---	---	0.0017	1.97	Normal up vs > 5 Years Off IS Tolerant
235556_PM_at	C5orf41	chromosome 5 open reading frame 41	0.0017	1.53	Normal up vs > 5 Years Off IS Tolerant
1557146_PM_a_at	LOC146336	hypothetical LOC146336	0.0017	-1.37	Normal down vs > 5 Years Off IS Tolerant
1565671_PM_a_at	LOC100287911	Similar to hCG2024922	0.0017	-1.27	Normal down vs > 5 Years Off IS Tolerant
207431_PM_s_at	DEGS1	degenerative spermatocyte homolog 1, lipid desaturase (Drosophila)	0.0017	2.21	Normal up vs > 5 Years Off IS Tolerant
1562259_PM_at	TEX9	testis expressed 9	0.0017	-1.51	Normal down vs > 5 Years Off IS Tolerant
242007_PM_at	---	---	0.0017	-1.90	Normal down vs > 5 Years Off IS Tolerant
233500_PM_x_at	CLEC2D	C-type lectin domain family 2, member D	0.0017	1.81	Normal up vs > 5 Years Off IS Tolerant
203118_PM_at	PCSK7	proprotein convertase subtilisin/kexin type 7	0.0017	1.46	Normal up vs > 5 Years Off IS Tolerant
234472_PM_at	GALNT13	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 13 (Ga	0.0017	-1.93	Normal down vs > 5 Years Off IS Tolerant
213733_PM_at	MYO1F	myosin IF	0.0017	-1.38	Normal down vs > 5 Years Off IS Tolerant
1553078_PM_at	OR5P3	olfactory receptor, family 5, subfamily P, member 3	0.0017	-1.52	Normal down vs > 5 Years Off IS Tolerant
218404_PM_at	SNX10	sorting nexin 10	0.0017	-1.47	Normal down vs > 5 Years Off IS Tolerant
210118_PM_s_at	IL1A	interleukin 1, alpha	0.0017	5.99	Normal up vs > 5 Years Off IS Tolerant

228626_PM_at	---	---	0.0017	1.48	Normal up vs > 5 Years Off IS Tolerant
208332_PM_at	PRY /// PRY2	PTPN13-like, Y-linked /// PTPN13-like, Y-linked 2	0.0017	-1.79	Normal down vs > 5 Years Off IS Tolerant
244564_PM_at	FLJ37638	Hypothetical gene supported by AK094957	0.0017	-1.41	Normal down vs > 5 Years Off IS Tolerant
222862_PM_s_at	AK5	adenylate kinase 5	0.0017	3.00	Normal up vs > 5 Years Off IS Tolerant
204484_PM_at	PIK3C2B	phosphoinositide-3-kinase, class 2, beta polypeptide	0.0017	1.85	Normal up vs > 5 Years Off IS Tolerant
201636_PM_at	FXR1	fragile X mental retardation, autosomal homolog 1	0.0017	1.34	Normal up vs > 5 Years Off IS Tolerant
202361_PM_at	SEC24C	SEC24 family, member C (<i>S. cerevisiae</i>)	0.0017	1.43	Normal up vs > 5 Years Off IS Tolerant
214717_PM_at	PK155	hypothetical protein DKFZp434H1419	0.0017	1.60	Normal up vs > 5 Years Off IS Tolerant
214604_PM_at	HOXD11	homeobox D11	0.0017	-1.28	Normal down vs > 5 Years Off IS Tolerant
206614_PM_at	GDF5	growth differentiation factor 5	0.0017	-1.43	Normal down vs > 5 Years Off IS Tolerant
1552686_PM_at	C20orf152	chromosome 20 open reading frame 152	0.0017	-1.45	Normal down vs > 5 Years Off IS Tolerant
212599_PM_at	AUTS2	autism susceptibility candidate 2	0.0017	2.48	Normal up vs > 5 Years Off IS Tolerant
238929_PM_at	SRSF8	serine/arginine-rich splicing factor 8	0.0017	1.88	Normal up vs > 5 Years Off IS Tolerant
213525_PM_at	---	---	0.0017	-1.32	Normal down vs > 5 Years Off IS Tolerant
224639_PM_at	SPPL3	signal peptide peptidase 3	0.0017	1.30	Normal up vs > 5 Years Off IS Tolerant
222244_PM_s_at	TUG1	taurine upregulated 1 (non-protein coding)	0.0017	1.33	Normal up vs > 5 Years Off IS Tolerant
217283_PM_at	---	---	0.0017	-1.35	Normal down vs > 5 Years Off IS Tolerant
213327_PM_s_at	USP12	ubiquitin specific peptidase 12	0.0017	1.72	Normal up vs > 5 Years Off IS Tolerant
217466_PM_x_at	RPS2	ribosomal protein S2	0.0017	1.33	Normal up vs > 5 Years Off IS Tolerant
234156_PM_at	---	---	0.0017	-1.75	Normal down vs > 5 Years Off IS Tolerant
1556321_PM_a_at	---	---	0.0017	2.30	Normal up vs > 5 Years Off IS Tolerant
222999_PM_s_at	CCNL2	cyclin L2	0.0017	1.44	Normal up vs > 5 Years Off IS Tolerant
215670_PM_s_at	SCAND2	SCAN domain containing 2 pseudogene	0.0017	1.53	Normal up vs > 5 Years Off IS Tolerant
201150_PM_s_at	TIMP3	TIMP metallopeptidase inhibitor 3	0.0017	-1.28	Normal down vs > 5 Years Off IS Tolerant
240044_PM_x_at	TNRC6B	Trinucleotide repeat containing 6B	0.0017	1.76	Normal up vs > 5 Years Off IS Tolerant
202703_PM_at	DUSP11	dual specificity phosphatase 11 (RNA/RNP complex 1-interacting)	0.0017	1.61	Normal up vs > 5 Years Off IS Tolerant
214744_PM_s_at	RPL23	ribosomal protein L23	0.0017	1.83	Normal up vs > 5 Years Off IS Tolerant
243492_PM_at	THEM4	thioesterase superfamily member 4	0.0017	1.84	Normal up vs > 5 Years Off IS Tolerant
225534_PM_at	C8orf40	chromosome 8 open reading frame 40	0.0017	1.62	Normal up vs > 5 Years Off IS Tolerant

1557690_PM_x_at	---	---	0.0017	-1.37	Normal down vs > 5 Years Off IS Tolerant
222001_PM_x_at	LOC728855	hypothetical LOC728855	0.0017	1.61	Normal up vs > 5 Years Off IS Tolerant
218480_PM_at	AGBL5	ATP/GTP binding protein-like 5	0.0017	1.46	Normal up vs > 5 Years Off IS Tolerant
200772_PM_x_at	PTMA	prothymosin, alpha	0.0017	1.14	Normal up vs > 5 Years Off IS Tolerant
229073_PM_at	PRTG	protogenin	0.0017	-1.39	Normal down vs > 5 Years Off IS Tolerant
238083_PM_at	PARP10	poly (ADP-ribose) polymerase family, member 10	0.0017	-1.45	Normal down vs > 5 Years Off IS Tolerant
1554067_PM_at	C12orf66	chromosome 12 open reading frame 66	0.0017	1.96	Normal up vs > 5 Years Off IS Tolerant
1562849_PM_at	---	---	0.0017	-1.48	Normal down vs > 5 Years Off IS Tolerant
200674_PM_s_at	RPL32	ribosomal protein L32	0.0017	1.14	Normal up vs > 5 Years Off IS Tolerant
200091_PM_s_at	RPS25	ribosomal protein S25	0.0017	1.21	Normal up vs > 5 Years Off IS Tolerant
228569_PM_at	PAPOLA	poly(A) polymerase alpha	0.0017	1.76	Normal up vs > 5 Years Off IS Tolerant
236423_PM_at	---	---	0.0017	-1.50	Normal down vs > 5 Years Off IS Tolerant
211585_PM_at	NPAT	nuclear protein, ataxia-telangiectasia locus	0.0017	-3.01	Normal down vs > 5 Years Off IS Tolerant
220413_PM_at	SLC39A2	solute carrier family 39 (zinc transporter), member 2	0.0017	-1.39	Normal down vs > 5 Years Off IS Tolerant
241858_PM_at	---	---	0.0017	-1.40	Normal down vs > 5 Years Off IS Tolerant
206207_PM_at	CLC	Charcot-Leyden crystal protein	0.0017	-1.83	Normal down vs > 5 Years Off IS Tolerant
231976_PM_at	LINS	lines homolog (Drosophila)	0.0017	1.84	Normal up vs > 5 Years Off IS Tolerant
213602_PM_s_at	MMP11	Matrix metalloproteinase 11 (stromelysin 3)	0.0017	-1.35	Normal down vs > 5 Years Off IS Tolerant
208131_PM_s_at	PTGIS	prostaglandin I2 (prostacyclin) synthase	0.0017	-1.49	Normal down vs > 5 Years Off IS Tolerant
200893_PM_at	TRA2B	transformer 2 beta homolog (Drosophila)	0.0017	1.27	Normal up vs > 5 Years Off IS Tolerant
242735_PM_x_at	ELF2	E74-like factor 2 (ets domain transcription factor)	0.0017	1.45	Normal up vs > 5 Years Off IS Tolerant
242433_PM_at	ZBTB11	zinc finger and BTB domain containing 11	0.0017	2.16	Normal up vs > 5 Years Off IS Tolerant
238961_PM_s_at	FNDC3A	Fibronectin type III domain containing 3A	0.0017	-1.42	Normal down vs > 5 Years Off IS Tolerant
207525_PM_s_at	GIPC1	GIPC PDZ domain containing family, member 1	0.0017	1.39	Normal up vs > 5 Years Off IS Tolerant
1564295_PM_at	FLJ25917	hypothetical LOC401585	0.0017	-1.22	Normal down vs > 5 Years Off IS Tolerant

219796_PM_s_at	CDHR5	cadherin-related family member 5	0.0017	-1.36	Normal down vs > 5 Years Off IS Tolerant
1553467_PM_at	FLJ32742	hypothetical locus FLJ32742	0.0017	-1.35	Normal down vs > 5 Years Off IS Tolerant
201021_PM_s_at	DSTN	destrin (actin depolymerizing factor)	0.0017	1.59	Normal up vs > 5 Years Off IS Tolerant
1564372_PM_s_at	CASC2	cancer susceptibility candidate 2	0.0017	-2.25	Normal down vs > 5 Years Off IS Tolerant
224845_PM_s_at	SLAIN2	SLAIN motif family, member 2	0.0017	1.61	Normal up vs > 5 Years Off IS Tolerant
203384_PM_s_at	GOLGA1	golgin A1	0.0018	1.54	Normal up vs > 5 Years Off IS Tolerant
1566923_PM_at	---	---	0.0018	-1.77	Normal down vs > 5 Years Off IS Tolerant
227378_PM_x_at	C16orf13	chromosome 16 open reading frame 13	0.0018	1.49	Normal up vs > 5 Years Off IS Tolerant
213418_PM_at	HSPA6	heat shock 70kDa protein 6 (HSP70B')	0.0018	-2.56	Normal down vs > 5 Years Off IS Tolerant
226061_PM_s_at	NUDT3	Nudix (nucleoside diphosphate linked moiety X)-type motif 3	0.0018	-1.42	Normal down vs > 5 Years Off IS Tolerant
1560034_PM_a_at	---	---	0.0018	-1.70	Normal down vs > 5 Years Off IS Tolerant
1555051_PM_at	C10orf53	chromosome 10 open reading frame 53	0.0018	-1.30	Normal down vs > 5 Years Off IS Tolerant
216012_PM_at	---	---	0.0018	-1.76	Normal down vs > 5 Years Off IS Tolerant
216204_PM_at	COMT	Catechol-O-methyltransferase	0.0018	-1.42	Normal down vs > 5 Years Off IS Tolerant
228752_PM_at	EFCAB4B	EF-hand calcium binding domain 4B	0.0018	1.83	Normal up vs > 5 Years Off IS Tolerant
205291_PM_at	IL2RB	interleukin 2 receptor, beta	0.0018	2.09	Normal up vs > 5 Years Off IS Tolerant
207215_PM_at	GSTT1 /// GSTTP1	glutathione S-transferase theta 1 /// glutathione S-transferase theta pseudogene 1	0.0018	-1.39	Normal down vs > 5 Years Off IS Tolerant
206666_PM_at	GZMK	granzyme K (granzyme 3; tryptase II)	0.0018	3.00	Normal up vs > 5 Years Off IS Tolerant
241429_PM_at	---	---	0.0018	1.51	Normal up vs > 5 Years Off IS Tolerant
1566504_PM_at	---	---	0.0018	-1.62	Normal down vs > 5 Years Off IS Tolerant
241962_PM_at	---	---	0.0018	1.39	Normal up vs > 5 Years Off IS Tolerant
205639_PM_at	AOAH	acyloxyacyl hydrolase (neutrophil)	0.0018	-1.51	Normal down vs > 5 Years Off IS Tolerant
202649_PM_x_at	RPS19	ribosomal protein S19	0.0018	1.16	Normal up vs > 5 Years Off IS Tolerant
1555252_PM_a_at	TRPM3	transient receptor potential cation channel, subfamily M, member 3	0.0018	-1.24	Normal down vs > 5 Years Off IS Tolerant

208165_PM_s_at	PRSS16	protease, serine, 16 (thymus)	0.0018	-1.28	Normal down vs > 5 Years Off IS Tolerant
201049_PM_s_at	RPS18	ribosomal protein S18	0.0018	1.17	Normal up vs > 5 Years Off IS Tolerant
217922_PM_at	MAN1A2	mannosidase, alpha, class 1A, member 2	0.0018	1.28	Normal up vs > 5 Years Off IS Tolerant
217136_PM_at	PPIAL4A	peptidylprolyl isomerase A (cyclophilin A)-like 4A	0.0018	-1.45	Normal down vs > 5 Years Off IS Tolerant
237344_PM_at	---	---	0.0018	-1.48	Normal down vs > 5 Years Off IS Tolerant
244412_PM_at	---	---	0.0018	-1.41	Normal down vs > 5 Years Off IS Tolerant
1559342_PM_a_at	SNRPN	small nuclear ribonucleoprotein polypeptide N	0.0018	-1.26	Normal down vs > 5 Years Off IS Tolerant
242738_PM_s_at	ZFH3	zinc finger homeobox 3	0.0018	-1.79	Normal down vs > 5 Years Off IS Tolerant
243294_PM_at	ZNF780B	zinc finger protein 780B	0.0018	-1.36	Normal down vs > 5 Years Off IS Tolerant
1553354_PM_a_at	FLJ31958	hypothetical LOC143153	0.0018	-2.52	Normal down vs > 5 Years Off IS Tolerant
36711_PM_at	MAFF	v-maf musculoaponeurotic fibrosarcoma oncogene homolog F (avian)	0.0018	7.17	Normal up vs > 5 Years Off IS Tolerant
232880_PM_at	LOC100288224	Hypothetical protein LOC100288224	0.0018	-1.50	Normal down vs > 5 Years Off IS Tolerant
207926_PM_at	GP5	glycoprotein V (platelet)	0.0018	1.58	Normal up vs > 5 Years Off IS Tolerant
227304_PM_at	SMCR8	Smith-Magenis syndrome chromosome region, candidate 8	0.0018	1.63	Normal up vs > 5 Years Off IS Tolerant
217003_PM_s_at	ADAM5P	ADAM metallopeptidase domain 5, pseudogene	0.0018	-1.50	Normal down vs > 5 Years Off IS Tolerant
41856_PM_at	UNC5B	unc-5 homolog B (C. elegans)	0.0018	-1.45	Normal down vs > 5 Years Off IS Tolerant
220789_PM_s_at	TBRG4	transforming growth factor beta regulator 4	0.0018	1.50	Normal up vs > 5 Years Off IS Tolerant
237525_PM_at	---	---	0.0018	-1.35	Normal down vs > 5 Years Off IS Tolerant
1554777_PM_at	ZFP42	zinc finger protein 42 homolog (mouse)	0.0018	-1.30	Normal down vs > 5 Years Off IS Tolerant
204773_PM_at	IL11RA	interleukin 11 receptor, alpha	0.0018	1.69	Normal up vs > 5 Years Off IS Tolerant
AFFX-r2-Ec-bioB-5_at	---	---	0.0018	-2.38	Normal down vs > 5 Years Off IS Tolerant
219976_PM_at	HOOK1	hook homolog 1 (Drosophila)	0.0018	1.58	Normal up vs > 5 Years Off IS Tolerant

1552269_PM_at	SPATA17	spermatogenesis associated 17	0.0018	-1.55	Normal down vs > 5 Years Off IS Tolerant
202789_PM_at	PLCG1	phospholipase C, gamma 1	0.0018	2.12	Normal up vs > 5 Years Off IS Tolerant
220962_PM_s_at	PADI1	peptidyl arginine deiminase, type I	0.0018	-1.35	Normal down vs > 5 Years Off IS Tolerant
1563069_PM_at	---	---	0.0018	-1.43	Normal down vs > 5 Years Off IS Tolerant
215772_PM_x_at	SUCLG2	succinate-CoA ligase, GDP-forming, beta subunit	0.0018	1.56	Normal up vs > 5 Years Off IS Tolerant
211487_PM_x_at	LOC100505503 /// RPS17	40S ribosomal protein S17-like /// ribosomal protein S17	0.0018	1.21	Normal up vs > 5 Years Off IS Tolerant
1568936_PM_a_at	---	---	0.0018	-1.27	Normal down vs > 5 Years Off IS Tolerant
1561940_PM_at	LOC100128843	hypothetical LOC100128843	0.0018	-1.28	Normal down vs > 5 Years Off IS Tolerant
1564784_PM_at	---	---	0.0018	-1.40	Normal down vs > 5 Years Off IS Tolerant
204573_PM_at	CROT	carnitine O-octanoyltransferase	0.0018	1.33	Normal up vs > 5 Years Off IS Tolerant
228544_PM_s_at	CSRP2BP /// PET117	CSRP2 binding protein /// cytochrome c oxidase assembly factor-like	0.0018	1.67	Normal up vs > 5 Years Off IS Tolerant
238658_PM_at	---	---	0.0018	-1.59	Normal down vs > 5 Years Off IS Tolerant
203299_PM_s_at	AP1S2	adaptor-related protein complex 1, sigma 2 subunit	0.0018	-1.51	Normal down vs > 5 Years Off IS Tolerant
225277_PM_at	SLC39A13	solute carrier family 39 (zinc transporter), member 13	0.0018	1.38	Normal up vs > 5 Years Off IS Tolerant
1562689_PM_at	LOC151484	hypothetical protein LOC151484	0.0018	-1.30	Normal down vs > 5 Years Off IS Tolerant
1566980_PM_at	---	---	0.0018	1.88	Normal up vs > 5 Years Off IS Tolerant
235900_PM_at	SPNS3	spinster homolog 3 (Drosophila)	0.0018	1.44	Normal up vs > 5 Years Off IS Tolerant
200014_PM_s_at	HNRNPC	heterogeneous nuclear ribonucleoprotein C (C1/C2)	0.0018	1.28	Normal up vs > 5 Years Off IS Tolerant
214368_PM_at	RASGRP2	RAS guanyl releasing protein 2 (calcium and DAG-regulated)	0.0018	1.24	Normal up vs > 5 Years Off IS Tolerant
1564876_PM_s_at	FOXP2	forkhead box P2	0.0018	-1.26	Normal down vs > 5 Years Off IS Tolerant
1566558_PM_x_at	FLJ90757	hypothetical LOC440465	0.0018	-1.92	Normal down vs > 5 Years Off IS Tolerant
203966_PM_s_at	PPM1A	protein phosphatase, Mg2+/Mn2+ dependent, 1A	0.0018	1.60	Normal up vs > 5 Years Off IS Tolerant
224591_PM_at	HP1BP3	heterochromatin protein 1, binding protein 3	0.0018	1.38	Normal up vs > 5 Years Off IS Tolerant
225719_PM_s_at	MRPL55	mitochondrial ribosomal protein L55	0.0018	1.64	Normal up vs > 5 Years Off IS Tolerant

1556471_PM_at	SCML4	sex comb on midleg-like 4 (Drosophila)	0.0018	1.91	Normal up vs > 5 Years Off IS Tolerant
212745_PM_s_at	BBS4	Bardet-Biedl syndrome 4	0.0018	1.61	Normal up vs > 5 Years Off IS Tolerant
210538_PM_s_at	BIRC3	baculoviral IAP repeat-containing 3	0.0018	1.85	Normal up vs > 5 Years Off IS Tolerant
229278_PM_at	USP51	ubiquitin specific peptidase 51	0.0019	1.25	Normal up vs > 5 Years Off IS Tolerant
237448_PM_at	---	---	0.0019	-1.32	Normal down vs > 5 Years Off IS Tolerant
221013_PM_s_at	APOL2	apolipoprotein L, 2	0.0019	-1.68	Normal down vs > 5 Years Off IS Tolerant
223038_PM_s_at	FAM60A	family with sequence similarity 60, member A	0.0019	1.55	Normal up vs > 5 Years Off IS Tolerant
214987_PM_at	GAB1	GRB2-associated binding protein 1	0.0019	-1.50	Normal down vs > 5 Years Off IS Tolerant
244117_PM_at	---	---	0.0019	-1.43	Normal down vs > 5 Years Off IS Tolerant
204426_PM_at	TMED2	transmembrane emp24 domain trafficking protein 2	0.0019	2.42	Normal up vs > 5 Years Off IS Tolerant
204903_PM_x_at	ATG4B	ATG4 autophagy related 4 homolog B (S. cerevisiae)	0.0019	1.45	Normal up vs > 5 Years Off IS Tolerant
222810_PM_s_at	RASAL2	RAS protein activator like 2	0.0019	-1.64	Normal down vs > 5 Years Off IS Tolerant
203492_PM_x_at	CEP57	centrosomal protein 57kDa	0.0019	1.41	Normal up vs > 5 Years Off IS Tolerant
213215_PM_at	AP3S2	adaptor-related protein complex 3, sigma 2 subunit	0.0019	-1.58	Normal down vs > 5 Years Off IS Tolerant
242549_PM_at	PRKD3	protein kinase D3	0.0019	2.60	Normal up vs > 5 Years Off IS Tolerant
236309_PM_x_at	ZMIZ2	zinc finger, MIZ-type containing 2	0.0019	1.29	Normal up vs > 5 Years Off IS Tolerant
205199_PM_at	CA9	carbonic anhydrase IX	0.0019	-1.32	Normal down vs > 5 Years Off IS Tolerant
210616_PM_s_at	SEC31A	SEC31 homolog A (S. cerevisiae)	0.0019	1.18	Normal up vs > 5 Years Off IS Tolerant
222141_PM_at	KLHL22	kelch-like 22 (Drosophila)	0.0019	1.51	Normal up vs > 5 Years Off IS Tolerant
209323_PM_at	PRKRIR	protein-kinase, interferon-inducible double stranded RNA dependent inhibitor, repressor	0.0019	1.38	Normal up vs > 5 Years Off IS Tolerant
201385_PM_at	DHX15	DEAH (Asp-Glu-Ala-His) box polypeptide 15	0.0019	1.19	Normal up vs > 5 Years Off IS Tolerant
239346_PM_at	---	---	0.0019	1.98	Normal up vs > 5 Years Off IS Tolerant
234556_PM_at	---	---	0.0019	-1.28	Normal down vs > 5 Years Off IS Tolerant
213062_PM_at	NTAN1	N-terminal asparagine amidase	0.0019	1.48	Normal up vs > 5 Years Off IS Tolerant
217464_PM_at	---	---	0.0019	-1.24	Normal down vs > 5 Years Off IS Tolerant
203006_PM_at	INPP5A	inositol polyphosphate-5-phosphatase, 40kDa	0.0019	1.56	Normal up vs > 5 Years Off IS Tolerant
233767_PM_at	HHLA1	HERV-H LTR-associating 1	0.0019	-1.40	Normal down vs > 5 Years Off IS Tolerant
1558739_PM_at	---	---	0.0019	2.30	Normal up vs > 5 Years Off IS Tolerant

223072_PM_s_at	INO80B /// WBP1	INO80 complex subunit B /// WW domain binding protein 1	0.0019	1.52	Normal up vs > 5 Years Off IS Tolerant
230637_PM_at	SFXN4	sideroflexin 4	0.0019	1.40	Normal up vs > 5 Years Off IS Tolerant
202859_PM_x_at	IL8	interleukin 8	0.0019	3.40	Normal up vs > 5 Years Off IS Tolerant
202716_PM_at	PTPN1	protein tyrosine phosphatase, non-receptor type 1	0.0019	1.38	Normal up vs > 5 Years Off IS Tolerant
244293_PM_at	UQCRB	ubiquinol-cytochrome c reductase binding protein	0.0019	1.60	Normal up vs > 5 Years Off IS Tolerant
1564414_PM_a_at	PNLDC1	poly(A)-specific ribonuclease (PARN)-like domain containing 1	0.0019	-1.25	Normal down vs > 5 Years Off IS Tolerant
228788_PM_at	YPEL1	yippee-like 1 (Drosophila)	0.0019	1.96	Normal up vs > 5 Years Off IS Tolerant
241132_PM_at	---	---	0.0019	-1.35	Normal down vs > 5 Years Off IS Tolerant
1566633_PM_at	---	---	0.0019	-1.54	Normal down vs > 5 Years Off IS Tolerant
1570136_PM_at	---	---	0.0019	-1.60	Normal down vs > 5 Years Off IS Tolerant
233883_PM_at	---	---	0.0019	-1.39	Normal down vs > 5 Years Off IS Tolerant
232512_PM_at	---	---	0.0019	-1.48	Normal down vs > 5 Years Off IS Tolerant
208302_PM_at	HMHB1	histocompatibility (minor) HB-1	0.0019	-1.38	Normal down vs > 5 Years Off IS Tolerant
204440_PM_at	CD83	CD83 molecule	0.0019	3.56	Normal up vs > 5 Years Off IS Tolerant
243423_PM_at	---	---	0.0019	2.00	Normal up vs > 5 Years Off IS Tolerant
216380_PM_x_at	---	---	0.0019	1.45	Normal up vs > 5 Years Off IS Tolerant
1559585_PM_at	DDX60L	DEAD (Asp-Glu-Ala-Asp) box polypeptide 60-like	0.0019	-2.77	Normal down vs > 5 Years Off IS Tolerant
207699_PM_at	ZFHX2	zinc finger homeobox 2	0.0019	-1.35	Normal down vs > 5 Years Off IS Tolerant
1561557_PM_at	LIPA	Lipase A, lysosomal acid, cholesterol esterase	0.0019	-1.67	Normal down vs > 5 Years Off IS Tolerant
208067_PM_x_at	UTY	ubiquitously transcribed tetratricopeptide repeat gene, Y-linked	0.0019	-4.88	Normal down vs > 5 Years Off IS Tolerant
225632_PM_s_at	ISY1 /// RAB43	ISY1 splicing factor homolog (S. cerevisiae) /// RAB43, member RAS oncogene family	0.0019	1.56	Normal up vs > 5 Years Off IS Tolerant
237695_PM_at	---	---	0.0019	-1.59	Normal down vs > 5 Years Off IS Tolerant
240001_PM_at	---	---	0.0019	-1.60	Normal down vs > 5 Years Off IS Tolerant
1552542_PM_s_at	TAGAP	T-cell activation RhoGTPase activating protein	0.0019	2.23	Normal up vs > 5 Years Off IS Tolerant

213227_PM_at	PGRMC2	progesterone receptor membrane component 2	0.0019	2.13	Normal up vs > 5 Years Off IS Tolerant
234303_PM_s_at	GPR85	G protein-coupled receptor 85	0.0019	-1.68	Normal down vs > 5 Years Off IS Tolerant
216721_PM_at	SLC25A30	Solute carrier family 25, member 30	0.0019	-1.51	Normal down vs > 5 Years Off IS Tolerant
203569_PM_s_at	OFD1	oral-facial-digital syndrome 1	0.0019	1.55	Normal up vs > 5 Years Off IS Tolerant
212219_PM_at	PSME4	proteasome (prosome, macropain) activator subunit 4	0.0019	1.52	Normal up vs > 5 Years Off IS Tolerant
238778_PM_at	MPP7	membrane protein, palmitoylated 7 (MAGUK p55 subfamily member 7)	0.0019	1.86	Normal up vs > 5 Years Off IS Tolerant
202916_PM_s_at	FAM20B	family with sequence similarity 20, member B	0.0019	1.51	Normal up vs > 5 Years Off IS Tolerant
208489_PM_at	GJA8	gap junction protein, alpha 8, 50kDa	0.0019	-1.31	Normal down vs > 5 Years Off IS Tolerant
202466_PM_at	PAPD7	PAP associated domain containing 7	0.0019	1.46	Normal up vs > 5 Years Off IS Tolerant
223808_PM_s_at	PTPMT1	protein tyrosine phosphatase, mitochondrial 1	0.0019	1.76	Normal up vs > 5 Years Off IS Tolerant
244857_PM_at	HBEGF	heparin-binding EGF-like growth factor	0.0019	-1.29	Normal down vs > 5 Years Off IS Tolerant
217940_PM_s_at	CARKD	carbohydrate kinase domain containing	0.0019	1.52	Normal up vs > 5 Years Off IS Tolerant
219093_PM_at	PID1	phosphotyrosine interaction domain containing 1	0.0019	-2.55	Normal down vs > 5 Years Off IS Tolerant
226665_PM_at	AHSA2	AHA1, activator of heat shock 90kDa protein ATPase homolog 2 (yeast)	0.0019	2.57	Normal up vs > 5 Years Off IS Tolerant
244726_PM_at	---	---	0.0019	-1.97	Normal down vs > 5 Years Off IS Tolerant
238902_PM_at	---	---	0.0019	-1.66	Normal down vs > 5 Years Off IS Tolerant
207497_PM_s_at	MS4A2	membrane-spanning 4-domains, subfamily A, member 2 (Fc fragment of IgE, high affinity I	0.0019	-1.34	Normal down vs > 5 Years Off IS Tolerant
215212_PM_at	---	---	0.0019	2.07	Normal up vs > 5 Years Off IS Tolerant
225190_PM_x_at	RPL35A	ribosomal protein L35a	0.0020	1.16	Normal up vs > 5 Years Off IS Tolerant
1557829_PM_at	---	---	0.0020	-1.32	Normal down vs > 5 Years Off IS Tolerant
203697_PM_at	FRZB	frizzled-related protein	0.0020	-1.44	Normal down vs > 5 Years Off IS Tolerant
204019_PM_s_at	SH3YL1	SH3 domain containing, Ysc84-like 1 (S. cerevisiae)	0.0020	1.94	Normal up vs > 5 Years Off IS Tolerant
220436_PM_at	CNTNAP3B	similar to cell recognition molecule CASPR3	0.0020	-1.67	Normal down vs > 5 Years Off IS Tolerant
227534_PM_at	C9orf21	chromosome 9 open reading frame 21	0.0020	2.04	Normal up vs > 5 Years Off IS Tolerant
209545_PM_s_at	RIPK2	receptor-interacting serine-threonine kinase 2	0.0020	2.41	Normal up vs > 5 Years Off IS Tolerant

219396_PM_s_at	NEIL1	nei endonuclease VIII-like 1 (E. coli)	0.0020	1.99	Normal up vs > 5 Years Off IS Tolerant
228333_PM_at	ZEB2	zinc finger E-box binding homeobox 2	0.0020	-1.79	Normal down vs > 5 Years Off IS Tolerant
221704_PM_s_at	VPS37B	vacuolar protein sorting 37 homolog B (S. cerevisiae)	0.0020	1.89	Normal up vs > 5 Years Off IS Tolerant
1566678_PM_at	MMP2	Matrix metalloproteinase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase)	0.0020	-1.33	Normal down vs > 5 Years Off IS Tolerant
232891_PM_at	SIRPD	signal-regulatory protein delta	0.0020	-1.60	Normal down vs > 5 Years Off IS Tolerant
235769_PM_at	ZNF497	Zinc finger protein 497	0.0020	-1.31	Normal down vs > 5 Years Off IS Tolerant
224967_PM_at	UGCG	UDP-glucose ceramide glucosyltransferase	0.0020	1.62	Normal up vs > 5 Years Off IS Tolerant
1560877_PM_a_at	---	---	0.0020	-1.50	Normal down vs > 5 Years Off IS Tolerant
1570225_PM_at	TMEM150B	transmembrane protein 150B	0.0020	-1.37	Normal down vs > 5 Years Off IS Tolerant
209336_PM_at	PWP2	PWP2 periodic tryptophan protein homolog (yeast)	0.0020	1.52	Normal up vs > 5 Years Off IS Tolerant
205893_PM_at	NLGN1	neuroligin 1	0.0020	-1.58	Normal down vs > 5 Years Off IS Tolerant
239808_PM_at	---	---	0.0020	2.40	Normal up vs > 5 Years Off IS Tolerant
204259_PM_at	MMP7	matrix metalloproteinase 7 (matrilysin, uterine)	0.0020	-1.28	Normal down vs > 5 Years Off IS Tolerant
1570284_PM_x_at	---	---	0.0020	-1.34	Normal down vs > 5 Years Off IS Tolerant
219388_PM_at	GRHL2	grainyhead-like 2 (Drosophila)	0.0020	-1.26	Normal down vs > 5 Years Off IS Tolerant
215094_PM_at	SPICE1	spindle and centriole associated protein 1	0.0020	-1.28	Normal down vs > 5 Years Off IS Tolerant
223728_PM_at	CENPBD1	CENPB DNA-binding domains containing 1	0.0020	-1.59	Normal down vs > 5 Years Off IS Tolerant
217056_PM_at	TRD@	T cell receptor delta locus	0.0020	1.31	Normal up vs > 5 Years Off IS Tolerant
231847_PM_at	ANKRD54	ankyrin repeat domain 54	0.0020	1.58	Normal up vs > 5 Years Off IS Tolerant
202264_PM_s_at	TOMM40	translocase of outer mitochondrial membrane 40 homolog (yeast)	0.0020	-1.43	Normal down vs > 5 Years Off IS Tolerant
210112_PM_at	HPS1	Hermansky-Pudlak syndrome 1	0.0020	1.84	Normal up vs > 5 Years Off IS Tolerant
205453_PM_at	HOXB2	homeobox B2	0.0020	2.35	Normal up vs > 5 Years Off IS Tolerant
222865_PM_x_at	TMEM204	transmembrane protein 204	0.0020	-1.36	Normal down vs > 5 Years Off IS Tolerant
212324_PM_s_at	VPS13D	vacuolar protein sorting 13 homolog D (S. cerevisiae)	0.0020	1.68	Normal up vs > 5 Years Off IS Tolerant
201937_PM_s_at	DNPEP	aspartyl aminopeptidase	0.0020	1.57	Normal up vs > 5 Years Off IS Tolerant

227203_PM_at	FBXL17	F-box and leucine-rich repeat protein 17	0.0020	1.50	Normal up vs > 5 Years Off IS Tolerant
234201_PM_x_at	---	---	0.0020	-1.52	Normal down vs > 5 Years Off IS Tolerant
209235_PM_at	CLCN7	chloride channel 7	0.0020	-1.43	Normal down vs > 5 Years Off IS Tolerant
218395_PM_at	ACTR6	ARP6 actin-related protein 6 homolog (yeast)	0.0020	1.71	Normal up vs > 5 Years Off IS Tolerant
40489_PM_at	ATN1	atrophin 1	0.0020	-1.23	Normal down vs > 5 Years Off IS Tolerant
223165_PM_s_at	IP6K2	inositol hexakisphosphate kinase 2	0.0020	1.96	Normal up vs > 5 Years Off IS Tolerant
204567_PM_s_at	ABCG1	ATP-binding cassette, sub-family G (WHITE), member 1	0.0020	2.52	Normal up vs > 5 Years Off IS Tolerant
213585_PM_s_at	PDCD2	Programmed cell death 2	0.0020	-1.42	Normal down vs > 5 Years Off IS Tolerant
209679_PM_s_at	SMAGP	small cell adhesion glycoprotein	0.0020	1.68	Normal up vs > 5 Years Off IS Tolerant
225287_PM_s_at	TMEM55B	transmembrane protein 55B	0.0020	1.41	Normal up vs > 5 Years Off IS Tolerant
1558181_PM_at	---	---	0.0020	-1.39	Normal down vs > 5 Years Off IS Tolerant
1562314_PM_at	---	---	0.0020	-1.56	Normal down vs > 5 Years Off IS Tolerant
225901_PM_at	PTPMT1	protein tyrosine phosphatase, mitochondrial 1	0.0020	1.47	Normal up vs > 5 Years Off IS Tolerant
231329_PM_at	---	---	0.0020	1.98	Normal up vs > 5 Years Off IS Tolerant
205992_PM_s_at	IL15	interleukin 15	0.0020	-1.54	Normal down vs > 5 Years Off IS Tolerant
217853_PM_at	TNS3	tensin 3	0.0020	-1.50	Normal down vs > 5 Years Off IS Tolerant
200669_PM_s_at	UBE2D3	ubiquitin-conjugating enzyme E2D 3 (UBC4/5 homolog, yeast)	0.0020	1.33	Normal up vs > 5 Years Off IS Tolerant
201473_PM_at	JUNB	jun B proto-oncogene	0.0020	1.51	Normal up vs > 5 Years Off IS Tolerant
237786_PM_at	---	---	0.0020	-1.56	Normal down vs > 5 Years Off IS Tolerant
1561096_PM_at	LOC285419	hypothetical LOC285419	0.0020	-1.62	Normal down vs > 5 Years Off IS Tolerant
205486_PM_at	TESK2	testis-specific kinase 2	0.0020	1.51	Normal up vs > 5 Years Off IS Tolerant
234599_PM_at	---	---	0.0020	3.06	Normal up vs > 5 Years Off IS Tolerant
238402_PM_s_at	FLJ35220	hypothetical protein FLJ35220	0.0020	-1.70	Normal down vs > 5 Years Off IS Tolerant
1566425_PM_at	---	---	0.0020	-1.46	Normal down vs > 5 Years Off IS Tolerant
201109_PM_s_at	THBS1	thrombospondin 1	0.0020	8.63	Normal up vs > 5 Years Off IS Tolerant

225325_PM_at	MFSD6	major facilitator superfamily domain containing 6	0.0020	1.80	Normal up vs > 5 Years Off IS Tolerant
218312_PM_s_at	ZSCAN18	zinc finger and SCAN domain containing 18	0.0020	2.10	Normal up vs > 5 Years Off IS Tolerant
223074_PM_s_at	AIF1L	allograft inflammatory factor 1-like	0.0020	-1.34	Normal down vs > 5 Years Off IS Tolerant
221656_PM_s_at	ARHGEF10L	Rho guanine nucleotide exchange factor (GEF) 10-like	0.0020	-1.89	Normal down vs > 5 Years Off IS Tolerant
1552401_PM_a_at	NCRNA00258	non-protein coding RNA 258	0.0020	-1.43	Normal down vs > 5 Years Off IS Tolerant
1554019_PM_s_at	CEP57L1	centrosomal protein 57kDa-like 1	0.0020	-1.63	Normal down vs > 5 Years Off IS Tolerant
1569849_PM_at	---	---	0.0020	-1.33	Normal down vs > 5 Years Off IS Tolerant
212136_PM_at	ATP2B4	ATPase, Ca ⁺⁺ transporting, plasma membrane 4	0.0020	1.72	Normal up vs > 5 Years Off IS Tolerant
219633_PM_at	TTPAL	tocopherol (alpha) transfer protein-like	0.0020	1.67	Normal up vs > 5 Years Off IS Tolerant
211967_PM_at	TMEM123	transmembrane protein 123	0.0020	1.42	Normal up vs > 5 Years Off IS Tolerant
231373_PM_at	RNF133	ring finger protein 133	0.0020	-1.68	Normal down vs > 5 Years Off IS Tolerant
235519_PM_at	FOXK1	Forkhead box K1	0.0020	-1.32	Normal down vs > 5 Years Off IS Tolerant
211774_PM_s_at	MMACHC	methymlalonic aciduria (cobalamin deficiency) cblC type, with homocystinuria	0.0020	-1.37	Normal down vs > 5 Years Off IS Tolerant
205688_PM_at	TFAP4	transcription factor AP-4 (activating enhancer binding protein 4)	0.0020	-1.33	Normal down vs > 5 Years Off IS Tolerant
1556029_PM_s_at	NMNAT2	nicotinamide nucleotide adenyltransferase 2	0.0020	-1.33	Normal down vs > 5 Years Off IS Tolerant
233086_PM_at	C20orf106 /// C20orf107	chromosome 20 open reading frame 106 /// chromosome 20 open reading frame 107	0.0020	1.83	Normal up vs > 5 Years Off IS Tolerant
221791_PM_s_at	CCDC72	coiled-coil domain containing 72	0.0020	1.18	Normal up vs > 5 Years Off IS Tolerant
219746_PM_at	DPF3	D4, zinc and double PHD fingers, family 3	0.0020	-1.38	Normal down vs > 5 Years Off IS Tolerant
1565887_PM_at	TRPM7	Transient receptor potential cation channel, subfamily M, member 7	0.0020	-1.48	Normal down vs > 5 Years Off IS Tolerant
1558987_PM_at	---	---	0.0020	1.35	Normal up vs > 5 Years Off IS Tolerant
242932_PM_at	---	---	0.0020	1.70	Normal up vs > 5 Years Off IS Tolerant
238633_PM_at	---	---	0.0020	1.95	Normal up vs > 5 Years Off IS Tolerant
203356_PM_at	CAPN7	calpain 7	0.0020	1.72	Normal up vs > 5 Years Off IS Tolerant
218219_PM_s_at	LANCL2	LanC lantibiotic synthetase component C-like 2 (bacterial)	0.0020	2.13	Normal up vs > 5 Years Off IS Tolerant
212744_PM_at	BBS4	Bardet-Biedl syndrome 4	0.0020	1.51	Normal up vs > 5 Years Off IS Tolerant

205710_PM_at	LRP2	low density lipoprotein receptor-related protein 2	0.0020	-1.31	Normal down vs > 5 Years Off IS Tolerant
225006_PM_x_at	TH1L	TH1-like (Drosophila)	0.0020	1.36	Normal up vs > 5 Years Off IS Tolerant
211450_PM_s_at	MSH6	mutS homolog 6 (E. coli)	0.0021	2.12	Normal up vs > 5 Years Off IS Tolerant
214065_PM_s_at	CIB2	calcium and integrin binding family member 2	0.0021	-1.40	Normal down vs > 5 Years Off IS Tolerant
240431_PM_at	---	---	0.0021	-1.60	Normal down vs > 5 Years Off IS Tolerant
201975_PM_at	CLIP1	CAP-GLY domain containing linker protein 1	0.0021	1.60	Normal up vs > 5 Years Off IS Tolerant
235415_PM_at	RPRD2	regulation of nuclear pre-mRNA domain containing 2	0.0021	1.44	Normal up vs > 5 Years Off IS Tolerant
233959_PM_at	LOC221442	adenylate cyclase 10 pseudogene	0.0021	1.48	Normal up vs > 5 Years Off IS Tolerant
215849_PM_x_at	TTC18	tetratricopeptide repeat domain 18	0.0021	-1.81	Normal down vs > 5 Years Off IS Tolerant
234053_PM_at	---	---	0.0021	-1.38	Normal down vs > 5 Years Off IS Tolerant
202635_PM_s_at	POLR2K	polymerase (RNA) II (DNA directed) polypeptide K, 7.0kDa	0.0021	1.77	Normal up vs > 5 Years Off IS Tolerant
219475_PM_at	OSGIN1	oxidative stress induced growth inhibitor 1	0.0021	-1.55	Normal down vs > 5 Years Off IS Tolerant
221890_PM_at	ZNF335	zinc finger protein 335	0.0021	1.52	Normal up vs > 5 Years Off IS Tolerant
206636_PM_at	RASA2	RAS p21 protein activator 2	0.0021	2.09	Normal up vs > 5 Years Off IS Tolerant
205582_PM_s_at	GGT5	gamma-glutamyltransferase 5	0.0021	-1.31	Normal down vs > 5 Years Off IS Tolerant
210926_PM_at	POTEKP	POTE ankyrin domain family, member K, pseudogene	0.0021	-1.34	Normal down vs > 5 Years Off IS Tolerant
214060_PM_at	SSBP1	single-stranded DNA binding protein 1	0.0021	1.98	Normal up vs > 5 Years Off IS Tolerant
225121_PM_at	TBC1D23	TBC1 domain family, member 23	0.0021	1.63	Normal up vs > 5 Years Off IS Tolerant
200610_PM_s_at	NCL	nucleolin	0.0021	1.26	Normal up vs > 5 Years Off IS Tolerant
225738_PM_at	RAPGEF1	Rap guanine nucleotide exchange factor (GEF) 1	0.0021	1.74	Normal up vs > 5 Years Off IS Tolerant
240095_PM_at	---	---	0.0021	-1.48	Normal down vs > 5 Years Off IS Tolerant
221547_PM_at	PRPF18	PRP18 pre-mRNA processing factor 18 homolog (S. cerevisiae)	0.0021	1.64	Normal up vs > 5 Years Off IS Tolerant
200915_PM_x_at	KTN1	kinectin 1 (kinesin receptor)	0.0021	1.23	Normal up vs > 5 Years Off IS Tolerant
216945_PM_x_at	PASK	PAS domain containing serine/threonine kinase	0.0021	2.61	Normal up vs > 5 Years Off IS Tolerant
239753_PM_at	ZNF252	zinc finger protein 252	0.0021	-1.45	Normal down vs > 5 Years Off IS Tolerant
1556891_PM_at	SORCS1	sortilin-related VPS10 domain containing receptor 1	0.0021	-1.29	Normal down vs > 5 Years Off IS Tolerant

229631_PM_at	DNHD1	dynein heavy chain domain 1	0.0021	1.38	Normal up vs > 5 Years Off IS Tolerant
235918_PM_x_at	CEP97	centrosomal protein 97kDa	0.0021	1.98	Normal up vs > 5 Years Off IS Tolerant
244684_PM_at	PGGT1B	Protein geranylgeranyltransferase type I, beta subunit	0.0021	-1.38	Normal down vs > 5 Years Off IS Tolerant
221432_PM_s_at	SLC25A28	solute carrier family 25, member 28	0.0021	1.71	Normal up vs > 5 Years Off IS Tolerant
1562327_PM_at	---	---	0.0021	-1.34	Normal down vs > 5 Years Off IS Tolerant
206395_PM_at	DGKG	diacylglycerol kinase, gamma 90kDa	0.0021	-1.31	Normal down vs > 5 Years Off IS Tolerant
219160_PM_s_at	PAPOLG	poly(A) polymerase gamma	0.0021	-1.31	Normal down vs > 5 Years Off IS Tolerant
243177_PM_at	---	---	0.0021	-2.22	Normal down vs > 5 Years Off IS Tolerant
210625_PM_s_at	AKAP1	A kinase (PRKA) anchor protein 1	0.0021	1.76	Normal up vs > 5 Years Off IS Tolerant
204819_PM_at	FGD1	FYVE, RhoGEF and PH domain containing 1	0.0021	-1.37	Normal down vs > 5 Years Off IS Tolerant
209646_PM_x_at	ALDH1B1	aldehyde dehydrogenase 1 family, member B1	0.0021	-1.78	Normal down vs > 5 Years Off IS Tolerant
226848_PM_at	---	---	0.0021	1.79	Normal up vs > 5 Years Off IS Tolerant
215858_PM_at	---	---	0.0021	-1.36	Normal down vs > 5 Years Off IS Tolerant
228426_PM_at	CLEC2D	C-type lectin domain family 2, member D	0.0021	2.43	Normal up vs > 5 Years Off IS Tolerant
210969_PM_at	PKN2	protein kinase N2	0.0021	-1.61	Normal down vs > 5 Years Off IS Tolerant
228436_PM_at	KCNC4	potassium voltage-gated channel, Shaw-related subfamily, member 4	0.0021	-1.29	Normal down vs > 5 Years Off IS Tolerant
1563130_PM_a_at	---	---	0.0021	1.87	Normal up vs > 5 Years Off IS Tolerant
1565717_PM_s_at	FUS	fused in sarcoma	0.0021	1.68	Normal up vs > 5 Years Off IS Tolerant
218783_PM_at	INTS7	integrator complex subunit 7	0.0021	-1.86	Normal down vs > 5 Years Off IS Tolerant
212665_PM_at	TIPARP	TCDD-inducible poly(ADP-ribose) polymerase	0.0021	2.91	Normal up vs > 5 Years Off IS Tolerant
208371_PM_s_at	RING1	ring finger protein 1	0.0021	1.28	Normal up vs > 5 Years Off IS Tolerant
1294_PM_at	UBA7	ubiquitin-like modifier activating enzyme 7	0.0021	1.36	Normal up vs > 5 Years Off IS Tolerant
212375_PM_at	EP400	E1A binding protein p400	0.0021	1.54	Normal up vs > 5 Years Off IS Tolerant
1559607_PM_s_at	GBP6	guanylate binding protein family, member 6	0.0021	-1.43	Normal down vs > 5 Years Off IS Tolerant
204859_PM_s_at	APAF1	apoptotic peptidase activating factor 1	0.0021	-1.92	Normal down vs > 5 Years Off IS Tolerant
209923_PM_s_at	BRAP	BRCA1 associated protein	0.0021	1.36	Normal up vs > 5 Years Off IS Tolerant

225353_PM_s_at	C1QC	complement component 1, q subcomponent, C chain	0.0021	-1.54	Normal down vs > 5 Years Off IS Tolerant
1555499_PM_a_at	IL28RA	interleukin 28 receptor, alpha (interferon, lambda receptor)	0.0021	-1.33	Normal down vs > 5 Years Off IS Tolerant
46142_PM_at	LMF1	lipase maturation factor 1	0.0021	1.62	Normal up vs > 5 Years Off IS Tolerant
207311_PM_at	DOC2B	double C2-like domains, beta	0.0021	-1.32	Normal down vs > 5 Years Off IS Tolerant
241153_PM_at	---	---	0.0021	-1.36	Normal down vs > 5 Years Off IS Tolerant
210163_PM_at	CXCL11	chemokine (C-X-C motif) ligand 11	0.0022	-1.44	Normal down vs > 5 Years Off IS Tolerant
220357_PM_s_at	SGK2	serum/glucocorticoid regulated kinase 2	0.0022	-1.30	Normal down vs > 5 Years Off IS Tolerant
227930_PM_at	EIF2C4	Eukaryotic translation initiation factor 2C, 4	0.0022	-1.40	Normal down vs > 5 Years Off IS Tolerant
227776_PM_at	ACER3	alkaline ceramidase 3	0.0022	-1.51	Normal down vs > 5 Years Off IS Tolerant
212374_PM_at	FEM1B	fem-1 homolog b (C. elegans)	0.0022	2.01	Normal up vs > 5 Years Off IS Tolerant
1554006_PM_a_at	LLGL2	lethal giant larvae homolog 2 (Drosophila)	0.0022	1.54	Normal up vs > 5 Years Off IS Tolerant
200013_PM_at	RPL24	ribosomal protein L24	0.0022	1.23	Normal up vs > 5 Years Off IS Tolerant
222002_PM_at	C7orf26	Chromosome 7 open reading frame 26	0.0022	-1.33	Normal down vs > 5 Years Off IS Tolerant
240890_PM_at	LOC643733	caspase 4, apoptosis-related cysteine peptidase pseudogene	0.0022	1.96	Normal up vs > 5 Years Off IS Tolerant
226679_PM_at	SLC26A11	solute carrier family 26, member 11	0.0022	1.48	Normal up vs > 5 Years Off IS Tolerant
222924_PM_at	SLMAP	sarcolemma associated protein	0.0022	1.91	Normal up vs > 5 Years Off IS Tolerant
219916_PM_s_at	RNF39	ring finger protein 39	0.0022	-1.31	Normal down vs > 5 Years Off IS Tolerant
208024_PM_s_at	DGCR6 /// DGCR6L	DiGeorge syndrome critical region gene 6 /// DiGeorge syndrome critical region gene 6-l	0.0022	1.53	Normal up vs > 5 Years Off IS Tolerant
227255_PM_at	PDIK1L	PDLIM1 interacting kinase 1 like	0.0022	1.71	Normal up vs > 5 Years Off IS Tolerant
91617_PM_at	DGCR8	DiGeorge syndrome critical region gene 8	0.0022	1.64	Normal up vs > 5 Years Off IS Tolerant
205583_PM_s_at	ALG13	asparagine-linked glycosylation 13 homolog (S. cerevisiae)	0.0022	1.63	Normal up vs > 5 Years Off IS Tolerant
213485_PM_s_at	ABCC10	ATP-binding cassette, sub-family C (CFTR/MRP), member 10	0.0022	1.56	Normal up vs > 5 Years Off IS Tolerant
220132_PM_s_at	CLEC2D	C-type lectin domain family 2, member D	0.0022	2.09	Normal up vs > 5 Years Off IS Tolerant
201630_PM_s_at	ACP1	acid phosphatase 1, soluble	0.0022	1.47	Normal up vs > 5 Years Off IS Tolerant

219642_PM_s_at	PEX5L	peroxisomal biogenesis factor 5-like	0.0022	-1.47	Normal down vs > 5 Years Off IS Tolerant
210083_PM_at	SEMA7A	semaphorin 7A, GPI membrane anchor (John Milton Hagen blood group)	0.0022	-1.45	Normal down vs > 5 Years Off IS Tolerant
1564670_PM_at	LOC100190938	hypothetical LOC100190938	0.0022	-1.32	Normal down vs > 5 Years Off IS Tolerant
222812_PM_s_at	RHOF	ras homolog gene family, member F (in filopodia)	0.0022	1.61	Normal up vs > 5 Years Off IS Tolerant
243405_PM_at	---	---	0.0022	-1.73	Normal down vs > 5 Years Off IS Tolerant
1553702_PM_at	ZNF697	zinc finger protein 697	0.0022	-1.31	Normal down vs > 5 Years Off IS Tolerant
231998_PM_at	---	---	0.0022	-1.39	Normal down vs > 5 Years Off IS Tolerant
231612_PM_at	C4orf35	chromosome 4 open reading frame 35	0.0022	-1.25	Normal down vs > 5 Years Off IS Tolerant
227704_PM_at	C19orf12	chromosome 19 open reading frame 12	0.0022	1.58	Normal up vs > 5 Years Off IS Tolerant
1559471_PM_s_at	D21S2088E	D21S2088E	0.0022	-1.62	Normal down vs > 5 Years Off IS Tolerant
1565768_PM_at	---	---	0.0022	-1.45	Normal down vs > 5 Years Off IS Tolerant
1555689_PM_at	CD80	CD80 molecule	0.0022	1.48	Normal up vs > 5 Years Off IS Tolerant
203752_PM_s_at	JUND	jun D proto-oncogene	0.0022	1.52	Normal up vs > 5 Years Off IS Tolerant
238315_PM_s_at	ZNF567	zinc finger protein 567	0.0022	1.70	Normal up vs > 5 Years Off IS Tolerant
236709_PM_at	---	---	0.0022	-1.35	Normal down vs > 5 Years Off IS Tolerant
226137_PM_at	ZFH3	zinc finger homeobox 3	0.0022	-1.62	Normal down vs > 5 Years Off IS Tolerant
223227_PM_at	BBS2	Bardet-Biedl syndrome 2	0.0022	1.85	Normal up vs > 5 Years Off IS Tolerant
1564277_PM_a_at	LOC100133920 /// LOC286297	hypothetical LOC100133920 /// hypothetical LOC286297	0.0022	-1.63	Normal down vs > 5 Years Off IS Tolerant
222322_PM_at	---	---	0.0022	-1.74	Normal down vs > 5 Years Off IS Tolerant
210105_PM_s_at	FYN	FYN oncogene related to SRC, FGR, YES	0.0022	1.30	Normal up vs > 5 Years Off IS Tolerant
225497_PM_at	ATE1	arginyltransferase 1	0.0022	1.73	Normal up vs > 5 Years Off IS Tolerant
220618_PM_s_at	ZCWPW1	zinc finger, CW type with PWWP domain 1	0.0022	1.49	Normal up vs > 5 Years Off IS Tolerant
215042_PM_at	BMP6	bone morphogenetic protein 6	0.0022	-1.31	Normal down vs > 5 Years Off IS Tolerant
221751_PM_at	PANK3	pantothenate kinase 3	0.0022	1.25	Normal up vs > 5 Years Off IS Tolerant
212615_PM_at	CHD9	chromodomain helicase DNA binding protein 9	0.0022	1.38	Normal up vs > 5 Years Off IS Tolerant

203374_PM_s_at	TPP2	tripeptidyl peptidase II	0.0022	1.49	Normal up vs > 5 Years Off IS Tolerant
1561731_PM_at	---	---	0.0022	-2.12	Normal down vs > 5 Years Off IS Tolerant
234668_PM_at	---	---	0.0022	-1.59	Normal down vs > 5 Years Off IS Tolerant
209796_PM_s_at	CNPY2	canopy 2 homolog (zebrafish)	0.0022	1.85	Normal up vs > 5 Years Off IS Tolerant
217485_PM_x_at	LOC100289811 /// LOC441259 /// PMS2 /// PMS2L2 /// PMS2P1 /// PMS2P5 /// PMS2P6	mismatch repair endonuclease PMS2-like /// PMS2 postmeiotic segregation increased 2 (S.	0.0022	1.47	Normal up vs > 5 Years Off IS Tolerant
220567_PM_at	IKZF2	IKAROS family zinc finger 2 (Helios)	0.0022	-1.60	Normal down vs > 5 Years Off IS Tolerant
230452_PM_at	FLJ42351	hypothetical LOC400999	0.0022	1.60	Normal up vs > 5 Years Off IS Tolerant
205726_PM_at	DIAPH2	diaphanous homolog 2 (Drosophila)	0.0022	-1.82	Normal down vs > 5 Years Off IS Tolerant
35671_PM_at	GTF3C1	general transcription factor IIC, polypeptide 1, alpha 220kDa	0.0022	1.58	Normal up vs > 5 Years Off IS Tolerant
226420_PM_at	MECOM	MDS1 and EVI1 complex locus	0.0022	-1.99	Normal down vs > 5 Years Off IS Tolerant
222035_PM_s_at	PAPOLA	poly(A) polymerase alpha	0.0022	1.49	Normal up vs > 5 Years Off IS Tolerant
211360_PM_s_at	ITPR2	inositol 1,4,5-triphosphate receptor, type 2	0.0022	-1.53	Normal down vs > 5 Years Off IS Tolerant
239131_PM_at	---	---	0.0022	2.01	Normal up vs > 5 Years Off IS Tolerant
214452_PM_at	BCAT1	branched chain amino-acid transaminase 1, cytosolic	0.0022	-2.20	Normal down vs > 5 Years Off IS Tolerant
202547_PM_s_at	ARHGEF7	Rho guanine nucleotide exchange factor (GEF) 7	0.0022	1.85	Normal up vs > 5 Years Off IS Tolerant
207160_PM_at	IL12A	interleukin 12A (natural killer cell stimulatory factor 1, cytotoxic lymphocyte maturat	0.0022	1.47	Normal up vs > 5 Years Off IS Tolerant
242035_PM_at	---	---	0.0022	1.84	Normal up vs > 5 Years Off IS Tolerant
232765_PM_x_at	LOC146429	putative solute carrier family 22 member ENSG00000182157	0.0022	-1.45	Normal down vs > 5 Years Off IS Tolerant
231016_PM_s_at	ARNT	Aryl hydrocarbon receptor nuclear translocator	0.0022	-1.51	Normal down vs > 5 Years Off IS Tolerant
201776_PM_s_at	KIAA0494	KIAA0494	0.0022	1.83	Normal up vs > 5 Years Off IS Tolerant
214290_PM_s_at	HIST2H2AA3 /// HIST2H2AA4	histone cluster 2, H2aa3 /// histone cluster 2, H2aa4	0.0022	1.57	Normal up vs > 5 Years Off IS Tolerant

240587_PM_x_at	LOC100508341	hypothetical LOC100508341	0.0022	-1.38	Normal down vs > 5 Years Off IS Tolerant
209194_PM_at	CETN2	centrin, EF-hand protein, 2	0.0022	1.66	Normal up vs > 5 Years Off IS Tolerant
203692_PM_s_at	E2F3	E2F transcription factor 3	0.0022	-1.48	Normal down vs > 5 Years Off IS Tolerant
1561327_PM_at	NCRNA00242	non-protein coding RNA 242	0.0022	-1.50	Normal down vs > 5 Years Off IS Tolerant
228736_PM_at	HELQ	helicase, POLQ-like	0.0022	1.74	Normal up vs > 5 Years Off IS Tolerant
238325_PM_s_at	ODF3B	outer dense fiber of sperm tails 3B	0.0022	-1.56	Normal down vs > 5 Years Off IS Tolerant
215845_PM_x_at	---	---	0.0022	-1.51	Normal down vs > 5 Years Off IS Tolerant
203683_PM_s_at	VEGFB	vascular endothelial growth factor B	0.0022	1.40	Normal up vs > 5 Years Off IS Tolerant
214663_PM_at	DSTYK	dual serine/threonine and tyrosine protein kinase	0.0022	1.96	Normal up vs > 5 Years Off IS Tolerant
215691_PM_x_at	HSPB11	heat shock protein family B (small), member 11	0.0022	1.44	Normal up vs > 5 Years Off IS Tolerant
204040_PM_at	RNF144A	ring finger protein 144A	0.0022	1.99	Normal up vs > 5 Years Off IS Tolerant
1569834_PM_at	---	---	0.0022	-1.65	Normal down vs > 5 Years Off IS Tolerant
226520_PM_at	LCOR	ligand dependent nuclear receptor corepressor	0.0022	1.46	Normal up vs > 5 Years Off IS Tolerant
227775_PM_at	CELF6	CUGBP, Elav-like family member 6	0.0022	1.48	Normal up vs > 5 Years Off IS Tolerant
226921_PM_at	UBR1	ubiquitin protein ligase E3 component n-recogin 1	0.0022	1.62	Normal up vs > 5 Years Off IS Tolerant
1560609_PM_at	CRYZL1	crystallin, zeta (quinone reductase)-like 1	0.0022	-1.35	Normal down vs > 5 Years Off IS Tolerant
235649_PM_at	ADAMTS8	ADAM metalloproteinase with thrombospondin type 1 motif, 8	0.0023	-1.34	Normal down vs > 5 Years Off IS Tolerant
1560086_PM_at	---	---	0.0023	-1.65	Normal down vs > 5 Years Off IS Tolerant
237202_PM_at	PGPEP1	pyroglutamyl-peptidase I	0.0023	-1.45	Normal down vs > 5 Years Off IS Tolerant
223734_PM_at	C4orf49	chromosome 4 open reading frame 49	0.0023	-1.46	Normal down vs > 5 Years Off IS Tolerant
238581_PM_at	GBP5	guanylate binding protein 5	0.0023	2.38	Normal up vs > 5 Years Off IS Tolerant
227438_PM_at	ALPK1	alpha-kinase 1	0.0023	-1.56	Normal down vs > 5 Years Off IS Tolerant
226202_PM_at	ZNF398	zinc finger protein 398	0.0023	1.86	Normal up vs > 5 Years Off IS Tolerant
240649_PM_at	---	---	0.0023	-1.51	Normal down vs > 5 Years Off IS Tolerant
1563073_PM_at	---	---	0.0023	-1.30	Normal down vs > 5 Years Off IS Tolerant

207010_PM_at	GABRB1	gamma-aminobutyric acid (GABA) A receptor, beta 1	0.0023	-1.73	Normal down vs > 5 Years Off IS Tolerant
238209_PM_at	---	---	0.0023	-1.43	Normal down vs > 5 Years Off IS Tolerant
224768_PM_at	IWS1	IWS1 homolog (S. cerevisiae)	0.0023	1.54	Normal up vs > 5 Years Off IS Tolerant
242933_PM_at	---	---	0.0023	-1.34	Normal down vs > 5 Years Off IS Tolerant
1570517_PM_at	FHL5	four and a half LIM domains 5	0.0023	-1.97	Normal down vs > 5 Years Off IS Tolerant
205076_PM_s_at	MTMR11	myotubularin related protein 11	0.0023	-1.74	Normal down vs > 5 Years Off IS Tolerant
1553696_PM_s_at	ZNF569	zinc finger protein 569	0.0023	1.33	Normal up vs > 5 Years Off IS Tolerant
210622_PM_x_at	CDK10	cyclin-dependent kinase 10	0.0023	1.99	Normal up vs > 5 Years Off IS Tolerant
1554015_PM_a_at	CHD2	chromodomain helicase DNA binding protein 2	0.0023	1.60	Normal up vs > 5 Years Off IS Tolerant
218698_PM_at	APIP	APAF1 interacting protein	0.0023	-1.43	Normal down vs > 5 Years Off IS Tolerant
1565661_PM_x_at	FUT6	Fucosyltransferase 6 (alpha (1,3) fucosyltransferase)	0.0023	-1.28	Normal down vs > 5 Years Off IS Tolerant
210740_PM_s_at	ITPK1	inositol 1,3,4-triphosphate 5/6 kinase	0.0023	-1.31	Normal down vs > 5 Years Off IS Tolerant
225438_PM_at	NUDCD1	NudC domain containing 1	0.0023	-1.38	Normal down vs > 5 Years Off IS Tolerant
239681_PM_at	C17orf56	chromosome 17 open reading frame 56	0.0023	-1.40	Normal down vs > 5 Years Off IS Tolerant
202340_PM_x_at	NR4A1	nuclear receptor subfamily 4, group A, member 1	0.0023	2.62	Normal up vs > 5 Years Off IS Tolerant
1557224_PM_at	---	---	0.0023	1.73	Normal up vs > 5 Years Off IS Tolerant
237921_PM_at	---	---	0.0023	-1.33	Normal down vs > 5 Years Off IS Tolerant
205171_PM_at	PTPN4	protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte)	0.0023	1.81	Normal up vs > 5 Years Off IS Tolerant
228211_PM_at	C9orf102	chromosome 9 open reading frame 102	0.0023	1.46	Normal up vs > 5 Years Off IS Tolerant
229661_PM_at	SALL4	sal-like 4 (Drosophila)	0.0023	-1.43	Normal down vs > 5 Years Off IS Tolerant
239643_PM_at	---	---	0.0023	-1.43	Normal down vs > 5 Years Off IS Tolerant
242103_PM_at	TMEM86A	transmembrane protein 86A	0.0023	-1.33	Normal down vs > 5 Years Off IS Tolerant
212477_PM_at	ACAP2	ArfGAP with coiled-coil, ankyrin repeat and PH domains 2	0.0023	-1.37	Normal down vs > 5 Years Off IS Tolerant

220935_PM_s_at	CDK5RAP2	CDK5 regulatory subunit associated protein 2	0.0023	1.43	Normal up vs > 5 Years Off IS Tolerant
219348_PM_at	USE1	unconventional SNARE in the ER 1 homolog (S. cerevisiae)	0.0023	1.51	Normal up vs > 5 Years Off IS Tolerant
202267_PM_at	LAMC2	laminin, gamma 2	0.0023	-1.31	Normal down vs > 5 Years Off IS Tolerant
234669_PM_x_at	C11orf30	chromosome 11 open reading frame 30	0.0023	-1.39	Normal down vs > 5 Years Off IS Tolerant
215687_PM_x_at	PLCB1	phospholipase C, beta 1 (phosphoinositide-specific)	0.0023	-1.35	Normal down vs > 5 Years Off IS Tolerant
226098_PM_at	IFT80	intraflagellar transport 80 homolog (Chlamydomonas)	0.0023	1.55	Normal up vs > 5 Years Off IS Tolerant
213171_PM_s_at	MMP24	matrix metalloproteinase 24 (membrane-inserted)	0.0023	-1.35	Normal down vs > 5 Years Off IS Tolerant
227595_PM_at	ZMYM6	zinc finger, MYM-type 6	0.0023	1.92	Normal up vs > 5 Years Off IS Tolerant
243869_PM_at	---	---	0.0023	1.58	Normal up vs > 5 Years Off IS Tolerant
205524_PM_s_at	HAPLN1	hyaluronan and proteoglycan link protein 1	0.0023	-1.37	Normal down vs > 5 Years Off IS Tolerant
225513_PM_at	SCRN2	secernin 2	0.0023	-1.56	Normal down vs > 5 Years Off IS Tolerant
1560637_PM_at	---	---	0.0023	-1.50	Normal down vs > 5 Years Off IS Tolerant
1553356_PM_at	---	---	0.0023	-1.33	Normal down vs > 5 Years Off IS Tolerant
1564868_PM_a_at	FAM117B	family with sequence similarity 117, member B	0.0023	1.45	Normal up vs > 5 Years Off IS Tolerant
236587_PM_at	---	---	0.0023	-1.45	Normal down vs > 5 Years Off IS Tolerant
203645_PM_s_at	CD163	CD163 molecule	0.0023	-1.83	Normal down vs > 5 Years Off IS Tolerant
210884_PM_s_at	SPAG11A	sperm associated antigen 11A	0.0023	-1.34	Normal down vs > 5 Years Off IS Tolerant
217580_PM_x_at	---	---	0.0023	-1.89	Normal down vs > 5 Years Off IS Tolerant
209989_PM_at	ZNF268	zinc finger protein 268	0.0023	1.93	Normal up vs > 5 Years Off IS Tolerant
1563344_PM_at	---	---	0.0023	-1.38	Normal down vs > 5 Years Off IS Tolerant
1560989_PM_at	---	---	0.0023	-1.44	Normal down vs > 5 Years Off IS Tolerant
219305_PM_x_at	FBXO2	F-box protein 2	0.0023	1.43	Normal up vs > 5 Years Off IS Tolerant
219016_PM_at	FASTKD5	FAST kinase domains 5	0.0023	1.46	Normal up vs > 5 Years Off IS Tolerant

210334_PM_x_at	BIRC5	baculoviral IAP repeat-containing 5	0.0023	-1.47	Normal down vs > 5 Years Off IS Tolerant
1557077_PM_a_at	---	---	0.0023	-1.32	Normal down vs > 5 Years Off IS Tolerant
223849_PM_s_at	MOV10	Mov10, Moloney leukemia virus 10, homolog (mouse)	0.0023	1.78	Normal up vs > 5 Years Off IS Tolerant
213371_PM_at	LDB3	LIM domain binding 3	0.0023	-1.39	Normal down vs > 5 Years Off IS Tolerant
216730_PM_at	---	---	0.0023	-1.45	Normal down vs > 5 Years Off IS Tolerant
211794_PM_at	FYB	FYN binding protein	0.0023	-1.58	Normal down vs > 5 Years Off IS Tolerant
227508_PM_at	---	---	0.0023	1.68	Normal up vs > 5 Years Off IS Tolerant
241355_PM_at	HR	hairless homolog (mouse)	0.0023	-1.33	Normal down vs > 5 Years Off IS Tolerant
231978_PM_at	TPCN2	two pore segment channel 2	0.0023	1.42	Normal up vs > 5 Years Off IS Tolerant
207721_PM_x_at	HINT1	histidine triad nucleotide binding protein 1	0.0023	1.44	Normal up vs > 5 Years Off IS Tolerant
233076_PM_at	JAKMIP3	Janus kinase and microtubule interacting protein 3	0.0023	-1.41	Normal down vs > 5 Years Off IS Tolerant
208281_PM_x_at	DAZ1 /// DAZ2 /// DAZ3 /// DAZ4	deleted in azoospermia 1 /// deleted in azoospermia 2 /// deleted in azoospermia 3 ///	0.0023	-2.81	Normal down vs > 5 Years Off IS Tolerant
1559715_PM_at	---	---	0.0023	-1.38	Normal down vs > 5 Years Off IS Tolerant
200007_PM_at	SRP14	signal recognition particle 14kDa (homologous Alu RNA binding protein)	0.0023	1.28	Normal up vs > 5 Years Off IS Tolerant
227645_PM_at	PIK3R5	phosphoinositide-3-kinase, regulatory subunit 5	0.0023	1.41	Normal up vs > 5 Years Off IS Tolerant
1565811_PM_at	---	---	0.0023	-1.62	Normal down vs > 5 Years Off IS Tolerant
238608_PM_at	---	---	0.0023	-1.55	Normal down vs > 5 Years Off IS Tolerant
236567_PM_at	---	---	0.0023	-1.37	Normal down vs > 5 Years Off IS Tolerant
207882_PM_at	---	---	0.0024	-1.34	Normal down vs > 5 Years Off IS Tolerant
226431_PM_at	FAM117B	family with sequence similarity 117, member B	0.0024	1.55	Normal up vs > 5 Years Off IS Tolerant
218516_PM_s_at	IMPAD1	inositol monophosphatase domain containing 1	0.0024	2.23	Normal up vs > 5 Years Off IS Tolerant
209984_PM_at	KDM4C	lysine (K)-specific demethylase 4C	0.0024	1.45	Normal up vs > 5 Years Off IS Tolerant
AFFX-r2-Ec-bioB-3_at	---	---	0.0024	-2.35	Normal down vs > 5 Years Off IS Tolerant

225309_PM_at	PHF5A	PHD finger protein 5A	0.0024	1.38	Normal up vs > 5 Years Off IS Tolerant
205518_PM_s_at	CMAH	cytidine monophosphate-N-acetylneuraminic acid hydroxylase (CMP-N-acetylneuraminate mon	0.0024	1.75	Normal up vs > 5 Years Off IS Tolerant
240581_PM_at	---	---	0.0024	1.28	Normal up vs > 5 Years Off IS Tolerant
244240_PM_at	---	---	0.0024	-1.52	Normal down vs > 5 Years Off IS Tolerant
241558_PM_at	---	---	0.0024	-1.65	Normal down vs > 5 Years Off IS Tolerant
206681_PM_x_at	GP2	glycoprotein 2 (zymogen granule membrane)	0.0024	-1.44	Normal down vs > 5 Years Off IS Tolerant
236181_PM_at	LOC389831	Hypothetical gene supported by AL713796	0.0024	-1.54	Normal down vs > 5 Years Off IS Tolerant
203526_PM_s_at	APC	adenomatous polyposis coli	0.0024	2.02	Normal up vs > 5 Years Off IS Tolerant
212584_PM_at	AQR	aquarius homolog (mouse)	0.0024	1.42	Normal up vs > 5 Years Off IS Tolerant
213689_PM_x_at	FAM69A	family with sequence similarity 69, member A	0.0024	1.88	Normal up vs > 5 Years Off IS Tolerant
217171_PM_at	SMPD1	sphingomyelin phosphodiesterase 1, acid lysosomal	0.0024	-1.36	Normal down vs > 5 Years Off IS Tolerant
222064_PM_s_at	AARSD1	alanyl-tRNA synthetase domain containing 1	0.0024	1.45	Normal up vs > 5 Years Off IS Tolerant
1564757_PM_a_at	CCDC148	coiled-coil domain containing 148	0.0024	-1.74	Normal down vs > 5 Years Off IS Tolerant
244407_PM_at	CYP39A1	cytochrome P450, family 39, subfamily A, polypeptide 1	0.0024	-1.62	Normal down vs > 5 Years Off IS Tolerant
243688_PM_at	MGC45800	hypothetical LOC90768	0.0024	-1.31	Normal down vs > 5 Years Off IS Tolerant
228574_PM_at	TMTC2	Transmembrane and tetratricopeptide repeat containing 2	0.0024	-1.70	Normal down vs > 5 Years Off IS Tolerant
234967_PM_at	IL6ST	interleukin 6 signal transducer (gp130, oncostatin M receptor)	0.0024	1.41	Normal up vs > 5 Years Off IS Tolerant
240772_PM_at	---	---	0.0024	-1.92	Normal down vs > 5 Years Off IS Tolerant
1569522_PM_at	---	---	0.0024	-1.54	Normal down vs > 5 Years Off IS Tolerant
226124_PM_at	ZFP90	zinc finger protein 90 homolog (mouse)	0.0024	1.72	Normal up vs > 5 Years Off IS Tolerant
241030_PM_at	---	---	0.0024	-1.91	Normal down vs > 5 Years Off IS Tolerant
212033_PM_at	RBM25	RNA binding motif protein 25	0.0024	1.29	Normal up vs > 5 Years Off IS Tolerant
212695_PM_at	CRY2	cryptochrome 2 (photolyase-like)	0.0024	1.64	Normal up vs > 5 Years Off IS Tolerant
241900_PM_at	---	---	0.0024	-1.41	Normal down vs > 5 Years Off IS Tolerant

1559652_PM_at	---	---	0.0024	-1.37	Normal down vs > 5 Years Off IS Tolerant
240175_PM_at	---	---	0.0024	-1.47	Normal down vs > 5 Years Off IS Tolerant
219762_PM_s_at	RPL36	ribosomal protein L36	0.0024	1.37	Normal up vs > 5 Years Off IS Tolerant
234018_PM_s_at	SEL1L2	sel-1 suppressor of lin-12-like 2 (C. elegans)	0.0024	-1.44	Normal down vs > 5 Years Off IS Tolerant
214443_PM_at	PVR	poliovirus receptor	0.0024	-1.26	Normal down vs > 5 Years Off IS Tolerant
213680_PM_at	KRT6B	keratin 6B	0.0024	-1.31	Normal down vs > 5 Years Off IS Tolerant
208258_PM_s_at	GAS2L1	growth arrest-specific 2 like 1	0.0024	-1.28	Normal down vs > 5 Years Off IS Tolerant
1560477_PM_a_at	SAMD11	sterile alpha motif domain containing 11	0.0024	-1.35	Normal down vs > 5 Years Off IS Tolerant
230615_PM_at	DUOXA2	dual oxidase maturation factor 2	0.0024	-1.45	Normal down vs > 5 Years Off IS Tolerant
205601_PM_s_at	HOXB5	homeobox B5	0.0024	-1.35	Normal down vs > 5 Years Off IS Tolerant
1564475_PM_s_at	LOC728723	hypothetical LOC728723	0.0024	-1.33	Normal down vs > 5 Years Off IS Tolerant
224088_PM_at	NMUR2	neuromedin U receptor 2	0.0024	-1.38	Normal down vs > 5 Years Off IS Tolerant
224780_PM_at	RBM17	RNA binding motif protein 17	0.0024	1.30	Normal up vs > 5 Years Off IS Tolerant
228505_PM_s_at	TMEM170A	transmembrane protein 170A	0.0024	2.06	Normal up vs > 5 Years Off IS Tolerant
44111_PM_at	VPS33B	vacuolar protein sorting 33 homolog B (yeast)	0.0024	1.36	Normal up vs > 5 Years Off IS Tolerant
238349_PM_at	UBN2	ubiquitin 2	0.0024	-1.47	Normal down vs > 5 Years Off IS Tolerant
1553471_PM_at	AMAC1	acyl-malonyl condensing enzyme 1	0.0024	-1.52	Normal down vs > 5 Years Off IS Tolerant
1569057_PM_s_at	MIA3	melanoma inhibitory activity family, member 3	0.0024	1.49	Normal up vs > 5 Years Off IS Tolerant
228902_PM_at	NUP214	nucleoporin 214kDa	0.0024	-1.51	Normal down vs > 5 Years Off IS Tolerant
237124_PM_at	---	---	0.0024	-1.42	Normal down vs > 5 Years Off IS Tolerant
217282_PM_at	MAN1A2	mannosidase, alpha, class 1A, member 2	0.0024	-1.50	Normal down vs > 5 Years Off IS Tolerant
234805_PM_at	---	---	0.0024	-1.88	Normal down vs > 5 Years Off IS Tolerant

220475_PM_at	SLC28A3	solute carrier family 28 (sodium-coupled nucleoside transporter), member 3	0.0024	-1.41	Normal down vs > 5 Years Off IS Tolerant
222788_PM_s_at	RSBN1	round spermatid basic protein 1	0.0025	1.32	Normal up vs > 5 Years Off IS Tolerant
221620_PM_s_at	APOO	apolipoprotein O	0.0025	1.64	Normal up vs > 5 Years Off IS Tolerant
220116_PM_at	KCNN2	potassium intermediate/small conductance calcium-activated channel, subfamily N, member	0.0025	-1.82	Normal down vs > 5 Years Off IS Tolerant
230946_PM_at	FMN2	Formin 2	0.0025	-1.37	Normal down vs > 5 Years Off IS Tolerant
233915_PM_at	C5orf36	chromosome 5 open reading frame 36	0.0025	-1.24	Normal down vs > 5 Years Off IS Tolerant
202167_PM_s_at	MMS19	MMS19 nucleotide excision repair homolog (S. cerevisiae)	0.0025	1.51	Normal up vs > 5 Years Off IS Tolerant
231155_PM_at	DEFB119	defensin, beta 119	0.0025	-1.50	Normal down vs > 5 Years Off IS Tolerant
212234_PM_at	ASXL1	additional sex combs like 1 (Drosophila)	0.0025	1.48	Normal up vs > 5 Years Off IS Tolerant
206444_PM_at	PDE1B	phosphodiesterase 1B, calmodulin-dependent	0.0025	-1.43	Normal down vs > 5 Years Off IS Tolerant
232134_PM_at	---	---	0.0025	1.78	Normal up vs > 5 Years Off IS Tolerant
208994_PM_s_at	PPIG	peptidylprolyl isomerase G (cyclophilin G)	0.0025	1.36	Normal up vs > 5 Years Off IS Tolerant
232842_PM_at	DOCK8	dedicator of cytokinesis 8	0.0025	-1.43	Normal down vs > 5 Years Off IS Tolerant
201305_PM_x_at	ANP32B	acidic (leucine-rich) nuclear phosphoprotein 32 family, member B	0.0025	1.21	Normal up vs > 5 Years Off IS Tolerant
216043_PM_x_at	---	---	0.0025	-1.31	Normal down vs > 5 Years Off IS Tolerant
1561411_PM_at	---	---	0.0025	-1.82	Normal down vs > 5 Years Off IS Tolerant
1564431_PM_a_at	LCNL1	lipocalin-like 1	0.0025	-1.24	Normal down vs > 5 Years Off IS Tolerant
242777_PM_at	---	---	0.0025	-2.16	Normal down vs > 5 Years Off IS Tolerant
204271_PM_s_at	EDNRB	endothelin receptor type B	0.0025	-1.40	Normal down vs > 5 Years Off IS Tolerant
209914_PM_s_at	NRXN1	neurexin 1	0.0025	-2.12	Normal down vs > 5 Years Off IS Tolerant
239437_PM_at	---	---	0.0025	1.54	Normal up vs > 5 Years Off IS Tolerant
208014_PM_x_at	---	---	0.0025	-1.96	Normal down vs > 5 Years Off IS Tolerant

228008_PM_at	---	---	0.0025	-1.55	Normal down vs > 5 Years Off IS Tolerant
205790_PM_at	SKAP1	src kinase associated phosphoprotein 1	0.0025	1.79	Normal up vs > 5 Years Off IS Tolerant
200062_PM_s_at	RPL30	ribosomal protein L30	0.0025	1.14	Normal up vs > 5 Years Off IS Tolerant
219935_PM_at	ADAMTS5	ADAM metalloproteinase with thrombospondin type 1 motif, 5	0.0025	-1.55	Normal down vs > 5 Years Off IS Tolerant
1555372_PM_at	BCL2L11	BCL2-like 11 (apoptosis facilitator)	0.0025	2.09	Normal up vs > 5 Years Off IS Tolerant
AFFX-BioB-M_at	---	---	0.0025	-2.43	Normal down vs > 5 Years Off IS Tolerant
215077_PM_at	---	---	0.0025	-1.37	Normal down vs > 5 Years Off IS Tolerant
1553397_PM_at	CCDC13	coiled-coil domain containing 13	0.0025	-1.60	Normal down vs > 5 Years Off IS Tolerant
224434_PM_s_at	WDR83	WD repeat domain 83	0.0025	-1.52	Normal down vs > 5 Years Off IS Tolerant
1554569_PM_a_at	CELF2	CUGBP, Elav-like family member 2	0.0025	1.70	Normal up vs > 5 Years Off IS Tolerant
237248_PM_at	PDE11A	phosphodiesterase 11A	0.0025	-1.39	Normal down vs > 5 Years Off IS Tolerant
202436_PM_s_at	CYP1B1	cytochrome P450, family 1, subfamily B, polypeptide 1	0.0025	-2.66	Normal down vs > 5 Years Off IS Tolerant
227393_PM_at	ANO9	anoctamin 9	0.0025	1.70	Normal up vs > 5 Years Off IS Tolerant
204381_PM_at	LRP3	low density lipoprotein receptor-related protein 3	0.0025	-1.44	Normal down vs > 5 Years Off IS Tolerant
208861_PM_s_at	ATRX	alpha thalassemia/mental retardation syndrome X-linked	0.0025	1.33	Normal up vs > 5 Years Off IS Tolerant
204923_PM_at	SASH3	SAM and SH3 domain containing 3	0.0025	-1.27	Normal down vs > 5 Years Off IS Tolerant
1557837_PM_a_at	ELMOD2	ELMO/CED-12 domain containing 2	0.0025	-1.51	Normal down vs > 5 Years Off IS Tolerant
222021_PM_x_at	SDHA /// SDHAP1 /// SDHAP2	succinate dehydrogenase complex, subunit A, flavoprotein (Fp) /// succinate dehydrogenase	0.0025	1.23	Normal up vs > 5 Years Off IS Tolerant
218328_PM_at	COQ4	coenzyme Q4 homolog (<i>S. cerevisiae</i>)	0.0025	1.55	Normal up vs > 5 Years Off IS Tolerant
239988_PM_at	---	---	0.0025	1.65	Normal up vs > 5 Years Off IS Tolerant
235554_PM_x_at	PACRGL	PARK2 co-regulated-like	0.0025	-1.42	Normal down vs > 5 Years Off IS Tolerant
213122_PM_at	TSPYL5	TSPY-like 5	0.0025	1.92	Normal up vs > 5 Years Off IS Tolerant
212344_PM_at	SULF1	sulfatase 1	0.0025	-1.49	Normal down vs > 5 Years Off IS Tolerant
225947_PM_at	MYO19	myosin XIX	0.0025	1.49	Normal up vs > 5 Years Off IS Tolerant

244516_PM_at	---	---	0.0025	-1.34	Normal down vs > 5 Years Off IS Tolerant
232680_PM_at	HDGFL1	hepatoma derived growth factor-like 1	0.0025	-1.44	Normal down vs > 5 Years Off IS Tolerant
223217_PM_s_at	NFKBIZ	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta	0.0025	2.03	Normal up vs > 5 Years Off IS Tolerant
205083_PM_at	AOX1	aldehyde oxidase 1	0.0025	-1.57	Normal down vs > 5 Years Off IS Tolerant
215160_PM_x_at	LOC100509419 /// LOC100510581 /// LOC642236	protein FRG1B-like /// protein FRG1-like /// FSHD region gene 1 pseudogene	0.0025	1.39	Normal up vs > 5 Years Off IS Tolerant
236561_PM_at	---	---	0.0025	1.55	Normal up vs > 5 Years Off IS Tolerant
233780_PM_at	RIF1	RAP1 interacting factor homolog (yeast)	0.0025	-1.81	Normal down vs > 5 Years Off IS Tolerant
226454_PM_at	9-Mar	membrane-associated ring finger (C3HC4) 9	0.0025	1.59	Normal up vs > 5 Years Off IS Tolerant
212096_PM_s_at	MTUS1	microtubule associated tumor suppressor 1	0.0026	2.08	Normal up vs > 5 Years Off IS Tolerant
60528_PM_at	JMJD7-PLA2G4B /// PLA2G4B	JMJD7-PLA2G4B readthrough /// phospholipase A2, group IVB (cytosolic)	0.0026	1.40	Normal up vs > 5 Years Off IS Tolerant
1553099_PM_at	TIGD1	tigger transposable element derived 1	0.0026	2.00	Normal up vs > 5 Years Off IS Tolerant
228974_PM_at	---	---	0.0026	1.84	Normal up vs > 5 Years Off IS Tolerant
219648_PM_at	MREG	melanoregulin	0.0026	1.60	Normal up vs > 5 Years Off IS Tolerant
203361_PM_s_at	MYCBP	c-myc binding protein	0.0026	-1.44	Normal down vs > 5 Years Off IS Tolerant
220853_PM_at	GTDC1	glycosyltransferase-like domain containing 1	0.0026	-1.52	Normal down vs > 5 Years Off IS Tolerant
220883_PM_at	---	---	0.0026	-1.62	Normal down vs > 5 Years Off IS Tolerant
1564402_PM_at	LOC146795	hypothetical protein LOC146795	0.0026	-1.31	Normal down vs > 5 Years Off IS Tolerant
231090_PM_s_at	ARID2	AT rich interactive domain 2 (ARID, RFX-like)	0.0026	1.47	Normal up vs > 5 Years Off IS Tolerant
233958_PM_at	---	---	0.0026	-1.48	Normal down vs > 5 Years Off IS Tolerant
1570152_PM_at	---	---	0.0026	-1.53	Normal down vs > 5 Years Off IS Tolerant
212788_PM_x_at	FTL	ferritin, light polypeptide	0.0026	-1.16	Normal down vs > 5 Years Off IS Tolerant
200024_PM_at	RPS5	ribosomal protein S5	0.0026	1.42	Normal up vs > 5 Years Off IS Tolerant
201068_PM_s_at	PSMC2	proteasome (prosome, macropain) 26S subunit, ATPase, 2	0.0026	1.28	Normal up vs > 5 Years Off IS Tolerant

243371_PM_at	---	---	0.0026	2.05	Normal up vs > 5 Years Off IS Tolerant
241947_PM_at	LOC100233209	hypothetical LOC100233209	0.0026	1.60	Normal up vs > 5 Years Off IS Tolerant
216177_PM_at	---	---	0.0026	1.46	Normal up vs > 5 Years Off IS Tolerant
227338_PM_at	LOC440983	Hypothetical gene supported by BC066916	0.0026	-1.44	Normal down vs > 5 Years Off IS Tolerant
1552872_PM_at	ASMTL-AS	ASMTL antisense RNA (non-protein coding)	0.0026	-1.35	Normal down vs > 5 Years Off IS Tolerant
1570196_PM_at	---	---	0.0026	-1.83	Normal down vs > 5 Years Off IS Tolerant
212851_PM_at	DCUN1D4	DCN1, defective in cullin neddylation 1, domain containing 4 (<i>S. cerevisiae</i>)	0.0026	1.54	Normal up vs > 5 Years Off IS Tolerant
202174_PM_s_at	PCM1	pericentriolar material 1	0.0026	1.37	Normal up vs > 5 Years Off IS Tolerant
222578_PM_s_at	UBA5	ubiquitin-like modifier activating enzyme 5	0.0026	1.60	Normal up vs > 5 Years Off IS Tolerant
229717_PM_at	AMIGO3 /// GMPPB	adhesion molecule with Ig-like domain 3 /// GDP-mannose pyrophosphorylase B	0.0026	1.33	Normal up vs > 5 Years Off IS Tolerant
235666_PM_at	ITGA8	integrin, alpha 8	0.0026	-1.26	Normal down vs > 5 Years Off IS Tolerant
221699_PM_s_at	DDX50	DEAD (Asp-Glu-Ala-Asp) box polypeptide 50	0.0026	1.30	Normal up vs > 5 Years Off IS Tolerant
221986_PM_s_at	KLHL24	kelch-like 24 (<i>Drosophila</i>)	0.0026	2.04	Normal up vs > 5 Years Off IS Tolerant
1558783_PM_at	---	---	0.0026	2.27	Normal up vs > 5 Years Off IS Tolerant
241469_PM_at	HFM1	HFM1, ATP-dependent DNA helicase homolog (<i>S. cerevisiae</i>)	0.0026	-1.32	Normal down vs > 5 Years Off IS Tolerant
218211_PM_s_at	MLPH	melanophilin	0.0026	-1.48	Normal down vs > 5 Years Off IS Tolerant
205203_PM_at	PLD1	phospholipase D1, phosphatidylcholine-specific	0.0026	-1.49	Normal down vs > 5 Years Off IS Tolerant
206655_PM_s_at	GP1BB /// SEPT5	glycoprotein Ib (platelet), beta polypeptide /// septin 5	0.0026	2.99	Normal up vs > 5 Years Off IS Tolerant
242765_PM_at	MOBP	myelin-associated oligodendrocyte basic protein	0.0026	-1.35	Normal down vs > 5 Years Off IS Tolerant
237059_PM_at	---	---	0.0026	-1.44	Normal down vs > 5 Years Off IS Tolerant
212321_PM_at	SGPL1	sphingosine-1-phosphate lyase 1	0.0026	1.56	Normal up vs > 5 Years Off IS Tolerant
204352_PM_at	TRAF5	TNF receptor-associated factor 5	0.0026	1.75	Normal up vs > 5 Years Off IS Tolerant
240338_PM_at	---	---	0.0026	1.70	Normal up vs > 5 Years Off IS Tolerant
226527_PM_at	RPRD2	regulation of nuclear pre-mRNA domain containing 2	0.0026	1.68	Normal up vs > 5 Years Off IS Tolerant
231402_PM_at	---	---	0.0026	-1.46	Normal down vs > 5 Years Off IS Tolerant

228131_PM_at	ERCC1	excision repair cross-complementing rodent repair deficiency, complementation group 1 (0.0026	1.66	Normal up vs > 5 Years Off IS Tolerant
1553141_PM_at	C13orf31	chromosome 13 open reading frame 31	0.0026	-1.37	Normal down vs > 5 Years Off IS Tolerant
216387_PM_x_at	---	---	0.0026	1.29	Normal up vs > 5 Years Off IS Tolerant
214527_PM_s_at	PQBP1	polyglutamine binding protein 1	0.0026	1.66	Normal up vs > 5 Years Off IS Tolerant
201753_PM_s_at	ADD3	adducin 3 (gamma)	0.0026	1.40	Normal up vs > 5 Years Off IS Tolerant
200741_PM_s_at	RPS27	ribosomal protein S27	0.0026	1.10	Normal up vs > 5 Years Off IS Tolerant
224723_PM_x_at	LOC401397	hypothetical LOC401397	0.0026	-1.43	Normal down vs > 5 Years Off IS Tolerant
211887_PM_x_at	MSR1	macrophage scavenger receptor 1	0.0026	-1.33	Normal down vs > 5 Years Off IS Tolerant
228825_PM_at	PTGR1	prostaglandin reductase 1	0.0026	-1.37	Normal down vs > 5 Years Off IS Tolerant
228988_PM_at	ZNF711	zinc finger protein 711	0.0026	1.83	Normal up vs > 5 Years Off IS Tolerant
208403_PM_x_at	MAX	MYC associated factor X	0.0026	1.57	Normal up vs > 5 Years Off IS Tolerant
224196_PM_x_at	DPH5	DPH5 homolog (<i>S. cerevisiae</i>)	0.0026	1.60	Normal up vs > 5 Years Off IS Tolerant
240779_PM_at	---	---	0.0026	-1.46	Normal down vs > 5 Years Off IS Tolerant
1566956_PM_at	OR7E104P	olfactory receptor, family 7, subfamily E, member 104 pseudogene	0.0026	-1.99	Normal down vs > 5 Years Off IS Tolerant
209156_PM_s_at	COL6A2	collagen, type VI, alpha 2	0.0027	-1.30	Normal down vs > 5 Years Off IS Tolerant
214191_PM_at	ICA1	islet cell autoantigen 1, 69kDa	0.0027	-1.32	Normal down vs > 5 Years Off IS Tolerant
213473_PM_at	BRAP	BRCA1 associated protein	0.0027	1.62	Normal up vs > 5 Years Off IS Tolerant
216505_PM_x_at	---	---	0.0027	1.30	Normal up vs > 5 Years Off IS Tolerant
213444_PM_at	ZNF862	zinc finger protein 862	0.0027	1.59	Normal up vs > 5 Years Off IS Tolerant
227768_PM_at	ZNF407	zinc finger protein 407	0.0027	1.38	Normal up vs > 5 Years Off IS Tolerant
223139_PM_s_at	DHX36	DEAH (Asp-Glu-Ala-His) box polypeptide 36	0.0027	1.31	Normal up vs > 5 Years Off IS Tolerant
244455_PM_at	KCNT2	potassium channel, subfamily T, member 2	0.0027	-1.98	Normal down vs > 5 Years Off IS Tolerant
AFFX-BioC-5_at	---	---	0.0027	-2.34	Normal down vs > 5 Years Off IS Tolerant
204286_PM_s_at	PMAIP1	phorbol-12-myristate-13-acetate-induced protein 1	0.0027	2.01	Normal up vs > 5 Years Off IS Tolerant
1559154_PM_at	---	---	0.0027	1.68	Normal up vs > 5 Years Off IS Tolerant
217950_PM_at	NOSIP	nitric oxide synthase interacting protein	0.0027	2.16	Normal up vs > 5 Years Off IS Tolerant
201578_PM_at	PODXL	podocalyxin-like	0.0027	-1.24	Normal down vs > 5 Years Off IS Tolerant

225864_PM_at	FAM84B	family with sequence similarity 84, member B	0.0027	2.11	Normal up vs > 5 Years Off IS Tolerant
211715_PM_s_at	BDH1	3-hydroxybutyrate dehydrogenase, type 1	0.0027	1.72	Normal up vs > 5 Years Off IS Tolerant
225147_PM_at	CYTH3	cytohesin 3	0.0027	1.82	Normal up vs > 5 Years Off IS Tolerant
206767_PM_at	RBMS3	RNA binding motif, single stranded interacting protein 3	0.0027	-1.48	Normal down vs > 5 Years Off IS Tolerant
225214_PM_at	LOC100129034	hypothetical LOC100129034	0.0027	-1.47	Normal down vs > 5 Years Off IS Tolerant
1569520_PM_at	---	---	0.0027	1.53	Normal up vs > 5 Years Off IS Tolerant
233058_PM_at	GPSM2	G-protein signaling modulator 2	0.0027	-1.31	Normal down vs > 5 Years Off IS Tolerant
239515_PM_at	---	---	0.0027	-1.41	Normal down vs > 5 Years Off IS Tolerant
1563026_PM_at	---	---	0.0027	-1.34	Normal down vs > 5 Years Off IS Tolerant
237909_PM_at	ADAM6	ADAM metallopeptidase domain 6 (pseudogene)	0.0027	-1.68	Normal down vs > 5 Years Off IS Tolerant
219822_PM_at	MTRF1	mitochondrial translational release factor 1	0.0027	1.76	Normal up vs > 5 Years Off IS Tolerant
AFFX-BioB-3_at	---	---	0.0027	-2.43	Normal down vs > 5 Years Off IS Tolerant
1560169_PM_at	---	---	0.0027	-1.76	Normal down vs > 5 Years Off IS Tolerant
AFFX-BioB-5_at	---	---	0.0027	-2.25	Normal down vs > 5 Years Off IS Tolerant
1562399_PM_at	---	---	0.0027	-1.92	Normal down vs > 5 Years Off IS Tolerant
227126_PM_at	PTPRG	protein tyrosine phosphatase, receptor type, G	0.0027	-2.74	Normal down vs > 5 Years Off IS Tolerant
1564828_PM_at	KIAA1211	KIAA1211	0.0027	-1.31	Normal down vs > 5 Years Off IS Tolerant
211914_PM_x_at	NF1	neurofibromin 1	0.0027	-1.96	Normal down vs > 5 Years Off IS Tolerant
1556846_PM_at	---	---	0.0027	-1.60	Normal down vs > 5 Years Off IS Tolerant
241312_PM_at	---	---	0.0027	-1.64	Normal down vs > 5 Years Off IS Tolerant
1559515_PM_at	---	---	0.0027	-1.41	Normal down vs > 5 Years Off IS Tolerant
1560265_PM_at	GRIK2	glutamate receptor, ionotropic, kainate 2	0.0027	-1.40	Normal down vs > 5 Years Off IS Tolerant

201565_PM_s_at	ID2	inhibitor of DNA binding 2, dominant negative helix-loop-helix protein	0.0027	1.36	Normal up vs > 5 Years Off IS Tolerant
238849_PM_at	ACY1	Aminoacylase 1	0.0027	-1.29	Normal down vs > 5 Years Off IS Tolerant
37586_PM_at	ZNF142	zinc finger protein 142	0.0027	1.34	Normal up vs > 5 Years Off IS Tolerant
1565525_PM_a_at	TCP11L2	t-complex 11 (mouse)-like 2	0.0027	2.11	Normal up vs > 5 Years Off IS Tolerant
227225_PM_at	---	---	0.0027	-1.40	Normal down vs > 5 Years Off IS Tolerant
233887_PM_at	GPR126	G protein-coupled receptor 126	0.0027	-1.71	Normal down vs > 5 Years Off IS Tolerant
214043_PM_at	PTPRD	protein tyrosine phosphatase, receptor type, D	0.0027	-2.20	Normal down vs > 5 Years Off IS Tolerant
220815_PM_at	CTNNA3	catenin (cadherin-associated protein), alpha 3	0.0027	-1.36	Normal down vs > 5 Years Off IS Tolerant
233816_PM_at	---	---	0.0027	-2.26	Normal down vs > 5 Years Off IS Tolerant
206795_PM_at	F2RL2	coagulation factor II (thrombin) receptor-like 2	0.0027	-1.33	Normal down vs > 5 Years Off IS Tolerant
1557117_PM_at	---	---	0.0027	1.55	Normal up vs > 5 Years Off IS Tolerant
227661_PM_at	ANKRD11	Ankyrin repeat domain 11	0.0027	-1.34	Normal down vs > 5 Years Off IS Tolerant
242593_PM_at	---	---	0.0027	1.89	Normal up vs > 5 Years Off IS Tolerant
215369_PM_at	---	---	0.0027	-1.24	Normal down vs > 5 Years Off IS Tolerant
1569156_PM_at	ZNF846	zinc finger protein 846	0.0027	1.37	Normal up vs > 5 Years Off IS Tolerant
233543_PM_s_at	FAM175A	family with sequence similarity 175, member A	0.0027	2.20	Normal up vs > 5 Years Off IS Tolerant
202435_PM_s_at	CYP1B1	cytochrome P450, family 1, subfamily B, polypeptide 1	0.0027	-2.56	Normal down vs > 5 Years Off IS Tolerant
213754_PM_s_at	PAIP1	poly(A) binding protein interacting protein 1	0.0027	1.83	Normal up vs > 5 Years Off IS Tolerant
202597_PM_at	IRF6	interferon regulatory factor 6	0.0027	-1.72	Normal down vs > 5 Years Off IS Tolerant
215884_PM_s_at	UBQLN2	ubiquilin 2	0.0027	1.46	Normal up vs > 5 Years Off IS Tolerant
229463_PM_at	NTRK2	neurotrophic tyrosine kinase, receptor, type 2	0.0027	-1.69	Normal down vs > 5 Years Off IS Tolerant
1561421_PM_a_at	---	---	0.0027	-1.26	Normal down vs > 5 Years Off IS Tolerant
1553460_PM_at	C2orf61	chromosome 2 open reading frame 61	0.0027	-1.36	Normal down vs > 5 Years Off IS Tolerant
227092_PM_at	LOC100507448	hypothetical LOC100507448	0.0027	1.78	Normal up vs > 5 Years Off IS Tolerant

223811_PM_s_at	GET4 /// SUN1	golgi to ER traffic protein 4 homolog (<i>S. cerevisiae</i>) /// Sad1 and UNC84 domain contain	0.0028	1.67	Normal up vs > 5 Years Off IS Tolerant
222295_PM_x_at	---	---	0.0028	-1.47	Normal down vs > 5 Years Off IS Tolerant
1557080_PM_s_at	ITGBL1	integrin, beta-like 1 (with EGF-like repeat domains)	0.0028	-2.26	Normal down vs > 5 Years Off IS Tolerant
1569900_PM_at	FLJ16124	FLJ16124 protein	0.0028	-1.39	Normal down vs > 5 Years Off IS Tolerant
213204_PM_at	CUL9	cullin 9	0.0028	1.60	Normal up vs > 5 Years Off IS Tolerant
226148_PM_at	ZBTB44	zinc finger and BTB domain containing 44	0.0028	1.46	Normal up vs > 5 Years Off IS Tolerant
224663_PM_s_at	CFL2	cofilin 2 (muscle)	0.0028	1.98	Normal up vs > 5 Years Off IS Tolerant
212957_PM_s_at	LOC92249	hypothetical LOC92249	0.0028	1.50	Normal up vs > 5 Years Off IS Tolerant
1568900_PM_a_at	ZNF568	zinc finger protein 568	0.0028	1.51	Normal up vs > 5 Years Off IS Tolerant
206591_PM_at	RAG1	recombination activating gene 1	0.0028	-1.56	Normal down vs > 5 Years Off IS Tolerant
220378_PM_at	TCP11	t-complex 11 homolog (mouse)	0.0028	-1.23	Normal down vs > 5 Years Off IS Tolerant
1563581_PM_at	LOC285456	hypothetical LOC285456	0.0028	-1.34	Normal down vs > 5 Years Off IS Tolerant
227044_PM_at	---	---	0.0028	2.98	Normal up vs > 5 Years Off IS Tolerant
243431_PM_at	---	---	0.0028	-2.07	Normal down vs > 5 Years Off IS Tolerant
209154_PM_at	TAX1BP3	Tax1 (human T-cell leukemia virus type I) binding protein 3	0.0028	1.50	Normal up vs > 5 Years Off IS Tolerant
201542_PM_at	SAR1A	SAR1 homolog A (<i>S. cerevisiae</i>)	0.0028	1.31	Normal up vs > 5 Years Off IS Tolerant
220768_PM_s_at	CSNK1G3	casein kinase 1, gamma 3	0.0028	1.64	Normal up vs > 5 Years Off IS Tolerant
243865_PM_x_at	---	---	0.0028	-1.75	Normal down vs > 5 Years Off IS Tolerant
203112_PM_s_at	WHSC2	Wolf-Hirschhorn syndrome candidate 2	0.0028	1.50	Normal up vs > 5 Years Off IS Tolerant
213813_PM_x_at	---	---	0.0028	-2.11	Normal down vs > 5 Years Off IS Tolerant
1570639_PM_at	---	---	0.0028	-1.87	Normal down vs > 5 Years Off IS Tolerant
226606_PM_s_at	GTPBP5	GTP binding protein 5 (putative)	0.0028	1.88	Normal up vs > 5 Years Off IS Tolerant
209917_PM_s_at	TP53TG1	TP53 target 1 (non-protein coding)	0.0028	1.76	Normal up vs > 5 Years Off IS Tolerant
215177_PM_s_at	ITGA6	integrin, alpha 6	0.0028	2.70	Normal up vs > 5 Years Off IS Tolerant
201402_PM_at	ADRBK1	adrenergic, beta, receptor kinase 1	0.0028	-1.49	Normal down vs > 5 Years Off IS Tolerant
1569594_PM_a_at	SDCCAG1	serologically defined colon cancer antigen 1	0.0028	1.35	Normal up vs > 5 Years Off IS Tolerant

232745_PM_x_at	SPEF2	sperm flagellar 2	0.0028	1.27	Normal up vs > 5 Years Off IS Tolerant
228793_PM_at	JMJD1C	jumonji domain containing 1C	0.0028	1.72	Normal up vs > 5 Years Off IS Tolerant
1554571_PM_at	APBB1IP	amyloid beta (A4) precursor protein-binding, family B, member 1 interacting protein	0.0028	1.80	Normal up vs > 5 Years Off IS Tolerant
211478_PM_s_at	DPP4	dipeptidyl-peptidase 4	0.0028	2.35	Normal up vs > 5 Years Off IS Tolerant
219778_PM_at	ZFPM2	zinc finger protein, multitype 2	0.0028	-1.24	Normal down vs > 5 Years Off IS Tolerant
240917_PM_at	LOC100506430	hypothetical LOC100506430	0.0028	-1.28	Normal down vs > 5 Years Off IS Tolerant
1554251_PM_at	HP1BP3	heterochromatin protein 1, binding protein 3	0.0028	1.62	Normal up vs > 5 Years Off IS Tolerant
226115_PM_at	AHCTF1	AT hook containing transcription factor 1	0.0028	1.56	Normal up vs > 5 Years Off IS Tolerant
215746_PM_at	---	---	0.0028	-1.34	Normal down vs > 5 Years Off IS Tolerant
219742_PM_at	PRR7	proline rich 7 (synaptic)	0.0028	1.60	Normal up vs > 5 Years Off IS Tolerant
1557726_PM_at	ARMCX4	armadillo repeat containing, X-linked 4	0.0028	-1.36	Normal down vs > 5 Years Off IS Tolerant
238579_PM_at	C9orf85	chromosome 9 open reading frame 85	0.0028	-1.46	Normal down vs > 5 Years Off IS Tolerant
227226_PM_at	MRAP2	melanocortin 2 receptor accessory protein 2	0.0028	-1.25	Normal down vs > 5 Years Off IS Tolerant
226095_PM_s_at	ATXN1L	ataxin 1-like	0.0028	1.48	Normal up vs > 5 Years Off IS Tolerant
AFFX-r2-Ec-bioC-3_at	---	---	0.0028	-2.20	Normal down vs > 5 Years Off IS Tolerant
203782_PM_s_at	POLRMT	polymerase (RNA) mitochondrial (DNA directed)	0.0028	1.64	Normal up vs > 5 Years Off IS Tolerant
211081_PM_s_at	MAP4K5	mitogen-activated protein kinase kinase kinase kinase 5	0.0028	1.76	Normal up vs > 5 Years Off IS Tolerant
201606_PM_s_at	PWP1	PWP1 homolog (<i>S. cerevisiae</i>)	0.0028	1.38	Normal up vs > 5 Years Off IS Tolerant
226341_PM_at	---	---	0.0028	1.59	Normal up vs > 5 Years Off IS Tolerant
212921_PM_at	SMYD2	SET and MYND domain containing 2	0.0028	1.61	Normal up vs > 5 Years Off IS Tolerant
202404_PM_s_at	COL1A2	collagen, type I, alpha 2	0.0028	-1.31	Normal down vs > 5 Years Off IS Tolerant
222700_PM_at	ATL2	atlastin GTPase 2	0.0028	1.72	Normal up vs > 5 Years Off IS Tolerant
210874_PM_s_at	NAT6	N-acetyltransferase 6 (GCN5-related)	0.0028	1.47	Normal up vs > 5 Years Off IS Tolerant
214731_PM_at	---	---	0.0028	2.13	Normal up vs > 5 Years Off IS Tolerant
233550_PM_s_at	SLC4A11	solute carrier family 4, sodium borate transporter, member 11	0.0028	-1.34	Normal down vs > 5 Years Off IS Tolerant
221417_PM_x_at	S1PR5	sphingosine-1-phosphate receptor 5	0.0028	1.75	Normal up vs > 5 Years Off IS Tolerant
208722_PM_s_at	ANAPC5	anaphase promoting complex subunit 5	0.0029	1.35	Normal up vs > 5 Years Off IS Tolerant

1565844_PM_at	BRPF3	Bromodomain and PHD finger containing, 3	0.0029	-1.27	Normal down vs > 5 Years Off IS Tolerant
232304_PM_at	PELI1	Pellino homolog 1 (Drosophila)	0.0029	1.99	Normal up vs > 5 Years Off IS Tolerant
1563295_PM_at	---	---	0.0029	-1.55	Normal down vs > 5 Years Off IS Tolerant
1552540_PM_s_at	IQCD	IQ motif containing D	0.0029	-1.35	Normal down vs > 5 Years Off IS Tolerant
243647_PM_at	---	---	0.0029	-1.28	Normal down vs > 5 Years Off IS Tolerant
231098_PM_at	---	---	0.0029	-1.51	Normal down vs > 5 Years Off IS Tolerant
208632_PM_at	RNF10	ring finger protein 10	0.0029	1.72	Normal up vs > 5 Years Off IS Tolerant
243134_PM_at	---	---	0.0029	2.16	Normal up vs > 5 Years Off IS Tolerant
232464_PM_at	TRIM78P	tripartite motif-containing 78, pseudogene	0.0029	-1.37	Normal down vs > 5 Years Off IS Tolerant
1555754_PM_s_at	ATN1	atrophin 1	0.0029	-1.29	Normal down vs > 5 Years Off IS Tolerant
1563137_PM_at	MGAT5B	mannosyl (alpha-1,6-)-glycoprotein beta-1,6-N-acetylglucosaminyltransferase, isozyme B	0.0029	-1.33	Normal down vs > 5 Years Off IS Tolerant
240598_PM_at	---	---	0.0029	-1.43	Normal down vs > 5 Years Off IS Tolerant
244046_PM_at	URGCP	upregulator of cell proliferation	0.0029	1.74	Normal up vs > 5 Years Off IS Tolerant
241977_PM_s_at	RAB3C	RAB3C, member RAS oncogene family	0.0029	-1.87	Normal down vs > 5 Years Off IS Tolerant
AFFX-r2-Ec-bioC-5_at	---	---	0.0029	-2.33	Normal down vs > 5 Years Off IS Tolerant
234611_PM_at	LOC100287902	hypothetical LOC100287902	0.0029	-1.37	Normal down vs > 5 Years Off IS Tolerant
202618_PM_s_at	MECP2	methyl CpG binding protein 2 (Rett syndrome)	0.0029	1.33	Normal up vs > 5 Years Off IS Tolerant
213792_PM_s_at	INSR	insulin receptor	0.0029	-1.60	Normal down vs > 5 Years Off IS Tolerant
239119_PM_at	---	---	0.0029	-1.27	Normal down vs > 5 Years Off IS Tolerant
237970_PM_at	---	---	0.0029	-2.22	Normal down vs > 5 Years Off IS Tolerant
204688_PM_at	SGCE	sarcoglycan, epsilon	0.0029	1.47	Normal up vs > 5 Years Off IS Tolerant
240306_PM_at	---	---	0.0029	-1.40	Normal down vs > 5 Years Off IS Tolerant

1563131_PM_at	---	---	0.0029	-1.37	Normal down vs > 5 Years Off IS Tolerant
232031_PM_s_at	KIAA1632	KIAA1632	0.0029	1.62	Normal up vs > 5 Years Off IS Tolerant
227755_PM_at	---	---	0.0029	1.54	Normal up vs > 5 Years Off IS Tolerant
212287_PM_at	SUZ12	suppressor of zeste 12 homolog (Drosophila)	0.0029	1.27	Normal up vs > 5 Years Off IS Tolerant
206334_PM_at	LIPF	lipase, gastric	0.0029	-1.44	Normal down vs > 5 Years Off IS Tolerant
220335_PM_x_at	CES3	carboxylesterase 3	0.0029	-2.13	Normal down vs > 5 Years Off IS Tolerant
232834_PM_at	---	---	0.0029	2.04	Normal up vs > 5 Years Off IS Tolerant
1559336_PM_at	---	---	0.0029	-2.34	Normal down vs > 5 Years Off IS Tolerant
224366_PM_s_at	REPS1	RALBP1 associated Eps domain containing 1	0.0029	1.30	Normal up vs > 5 Years Off IS Tolerant
230885_PM_at	SPG7	spastic paraplegia 7 (pure and complicated autosomal recessive)	0.0029	1.52	Normal up vs > 5 Years Off IS Tolerant
1560757_PM_at	TOP1MT	Topoisomerase (DNA) I, mitochondrial	0.0029	-1.26	Normal down vs > 5 Years Off IS Tolerant
206069_PM_s_at	ACADL	acyl-CoA dehydrogenase, long chain	0.0029	-1.35	Normal down vs > 5 Years Off IS Tolerant
232652_PM_x_at	SCAND1	SCAN domain containing 1	0.0029	1.60	Normal up vs > 5 Years Off IS Tolerant
204538_PM_x_at	NPIP	nuclear pore complex interacting protein	0.0029	1.30	Normal up vs > 5 Years Off IS Tolerant
244530_PM_at	---	---	0.0029	-1.29	Normal down vs > 5 Years Off IS Tolerant
240957_PM_at	---	---	0.0029	1.64	Normal up vs > 5 Years Off IS Tolerant
236485_PM_at	LOC100507111	hypothetical LOC100507111	0.0029	1.49	Normal up vs > 5 Years Off IS Tolerant
202984_PM_s_at	BAG5	BCL2-associated athanogene 5	0.0029	1.39	Normal up vs > 5 Years Off IS Tolerant
217962_PM_at	NOP10	NOP10 ribonucleoprotein homolog (yeast)	0.0029	-1.52	Normal down vs > 5 Years Off IS Tolerant
222958_PM_s_at	DEPDC1	DEP domain containing 1	0.0029	-1.51	Normal down vs > 5 Years Off IS Tolerant
209764_PM_at	MGAT3	mannosyl (beta-1,4-)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase	0.0029	-1.42	Normal down vs > 5 Years Off IS Tolerant
215032_PM_at	RREB1	ras responsive element binding protein 1	0.0029	1.61	Normal up vs > 5 Years Off IS Tolerant
1560198_PM_at	C14orf70	chromosome 14 open reading frame 70	0.0029	-1.40	Normal down vs > 5 Years Off IS Tolerant
228366_PM_at	---	---	0.0029	1.62	Normal up vs > 5 Years Off IS Tolerant
1569464_PM_at	PPFIBP1	PTPRF interacting protein, binding protein 1 (liprin beta 1)	0.0029	-1.40	Normal down vs > 5 Years Off IS Tolerant

209616_PM_s_at	CES1	carboxylesterase 1	0.0029	-3.82	Normal down vs > 5 Years Off IS Tolerant
226385_PM_s_at	C7orf30	chromosome 7 open reading frame 30	0.0029	1.37	Normal up vs > 5 Years Off IS Tolerant
1553019_PM_at	TMC2	transmembrane channel-like 2	0.0030	-1.35	Normal down vs > 5 Years Off IS Tolerant
229012_PM_at	C9orf24	chromosome 9 open reading frame 24	0.0030	1.23	Normal up vs > 5 Years Off IS Tolerant
209544_PM_at	RIPK2	receptor-interacting serine-threonine kinase 2	0.0030	2.32	Normal up vs > 5 Years Off IS Tolerant
229922_PM_at	GPRIN1	G protein regulated inducer of neurite outgrowth 1	0.0030	-1.28	Normal down vs > 5 Years Off IS Tolerant
218935_PM_at	EHD3	EH-domain containing 3	0.0030	1.74	Normal up vs > 5 Years Off IS Tolerant
212778_PM_at	PACS2	phosphofurin acidic cluster sorting protein 2	0.0030	1.88	Normal up vs > 5 Years Off IS Tolerant
243632_PM_at	---	---	0.0030	-1.35	Normal down vs > 5 Years Off IS Tolerant
218660_PM_at	DYSF	dysferlin, limb girdle muscular dystrophy 2B (autosomal recessive)	0.0030	-1.95	Normal down vs > 5 Years Off IS Tolerant
41512_PM_at	BRAP	BRCA1 associated protein	0.0030	1.59	Normal up vs > 5 Years Off IS Tolerant
239220_PM_at	---	---	0.0030	-1.35	Normal down vs > 5 Years Off IS Tolerant
221745_PM_at	DCAF7	DDB1 and CUL4 associated factor 7	0.0030	-1.93	Normal down vs > 5 Years Off IS Tolerant
235652_PM_at	---	---	0.0030	2.17	Normal up vs > 5 Years Off IS Tolerant
222965_PM_at	PRO2214	hypothetical protein PRO2214	0.0030	-1.64	Normal down vs > 5 Years Off IS Tolerant
237338_PM_at	B3GNT8	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 8	0.0030	-1.38	Normal down vs > 5 Years Off IS Tolerant
209628_PM_at	NXT2	nuclear transport factor 2-like export factor 2	0.0030	1.53	Normal up vs > 5 Years Off IS Tolerant
220602_PM_s_at	LOC388152 /// LOC727751 /// LOC727849 /// LOC80154	hypothetical LOC388152 /// hypothetical LOC727751 /// golgin A2 pseudogene /// hypothet	0.0030	1.48	Normal up vs > 5 Years Off IS Tolerant
244811_PM_at	PHIP	pleckstrin homology domain interacting protein	0.0030	2.32	Normal up vs > 5 Years Off IS Tolerant
236316_PM_at	FAM3C	family with sequence similarity 3, member C	0.0030	2.21	Normal up vs > 5 Years Off IS Tolerant
1563190_PM_at	---	---	0.0030	-1.80	Normal down vs > 5 Years Off IS Tolerant
209861_PM_s_at	METAP2	methionyl aminopeptidase 2	0.0030	1.45	Normal up vs > 5 Years Off IS Tolerant
214834_PM_at	PAR5	Prader-Willi/Angelman syndrome-5	0.0030	1.38	Normal up vs > 5 Years Off IS Tolerant
210717_PM_at	---	---	0.0030	1.55	Normal up vs > 5 Years Off IS Tolerant
227575_PM_s_at	C14orf102	chromosome 14 open reading frame 102	0.0030	1.70	Normal up vs > 5 Years Off IS Tolerant

237979_PM_at	---	---	0.0030	-1.43	Normal down vs > 5 Years Off IS Tolerant
211026_PM_s_at	MGLL	monoglyceride lipase	0.0030	2.54	Normal up vs > 5 Years Off IS Tolerant
205069_PM_s_at	ARHGAP26	Rho GTPase activating protein 26	0.0030	-1.55	Normal down vs > 5 Years Off IS Tolerant
243192_PM_at	---	---	0.0030	-2.47	Normal down vs > 5 Years Off IS Tolerant
222709_PM_at	ATG7	ATG7 autophagy related 7 homolog (<i>S. cerevisiae</i>)	0.0030	-1.84	Normal down vs > 5 Years Off IS Tolerant
211422_PM_at	TRPM3	transient receptor potential cation channel, subfamily M, member 3	0.0030	-1.40	Normal down vs > 5 Years Off IS Tolerant
222107_PM_x_at	LZTS1	leucine zipper, putative tumor suppressor 1	0.0030	-1.39	Normal down vs > 5 Years Off IS Tolerant
237388_PM_at	---	---	0.0030	1.77	Normal up vs > 5 Years Off IS Tolerant
226027_PM_at	C9orf119	chromosome 9 open reading frame 119	0.0030	1.73	Normal up vs > 5 Years Off IS Tolerant
1569491_PM_at	---	---	0.0030	-1.34	Normal down vs > 5 Years Off IS Tolerant
227537_PM_s_at	SP3	Sp3 transcription factor	0.0030	-1.28	Normal down vs > 5 Years Off IS Tolerant
202594_PM_at	LEPROTL1	leptin receptor overlapping transcript-like 1	0.0030	1.87	Normal up vs > 5 Years Off IS Tolerant
240468_PM_at	---	---	0.0030	-1.66	Normal down vs > 5 Years Off IS Tolerant
225824_PM_at	CCNK	cyclin K	0.0030	1.24	Normal up vs > 5 Years Off IS Tolerant
200718_PM_s_at	SKP1	S-phase kinase-associated protein 1	0.0030	1.23	Normal up vs > 5 Years Off IS Tolerant
218997_PM_at	POLR1E	polymerase (RNA) I polypeptide E, 53kDa	0.0030	1.48	Normal up vs > 5 Years Off IS Tolerant
233261_PM_at	EBF1	Early B-cell factor 1	0.0030	2.37	Normal up vs > 5 Years Off IS Tolerant
241898_PM_at	LIPH	lipase, member H	0.0030	-1.37	Normal down vs > 5 Years Off IS Tolerant
1567014_PM_s_at	CSNK2A1 /// NFE2L2	casein kinase 2, alpha 1 polypeptide /// nuclear factor (erythroid-derived 2)-like 2	0.0030	1.66	Normal up vs > 5 Years Off IS Tolerant
236490_PM_at	NEDD4L	Neural precursor cell expressed, developmentally down-regulated 4-like	0.0030	-1.28	Normal down vs > 5 Years Off IS Tolerant
231441_PM_at	C7orf62	chromosome 7 open reading frame 62	0.0030	-2.25	Normal down vs > 5 Years Off IS Tolerant
204809_PM_at	CLPX	ClpX caseinolytic peptidase X homolog (<i>E. coli</i>)	0.0030	1.79	Normal up vs > 5 Years Off IS Tolerant
212426_PM_s_at	YWHAQ	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide	0.0030	1.30	Normal up vs > 5 Years Off IS Tolerant
1560047_PM_s_at	---	---	0.0030	-1.68	Normal down vs > 5 Years Off IS Tolerant

208740_PM_at	SAP18	Sin3A-associated protein, 18kDa	0.0030	1.56	Normal up vs > 5 Years Off IS Tolerant
243757_PM_at	---	---	0.0030	1.87	Normal up vs > 5 Years Off IS Tolerant
231082_PM_at	---	---	0.0030	-1.26	Normal down vs > 5 Years Off IS Tolerant
224718_PM_at	YY1	YY1 transcription factor	0.0030	1.26	Normal up vs > 5 Years Off IS Tolerant
230651_PM_at	---	---	0.0031	1.73	Normal up vs > 5 Years Off IS Tolerant
1556789_PM_a_at	---	---	0.0031	-1.35	Normal down vs > 5 Years Off IS Tolerant
1568675_PM_at	CHRNA10	Cholinergic receptor, nicotinic, alpha 10	0.0031	-1.31	Normal down vs > 5 Years Off IS Tolerant
207141_PM_s_at	KCNJ3	potassium inwardly-rectifying channel, subfamily J, member 3	0.0031	-1.51	Normal down vs > 5 Years Off IS Tolerant
205323_PM_s_at	MTF1	metal-regulatory transcription factor 1	0.0031	-1.40	Normal down vs > 5 Years Off IS Tolerant
230925_PM_at	APBB1IP	amyloid beta (A4) precursor protein-binding, family B, member 1 interacting protein	0.0031	-1.52	Normal down vs > 5 Years Off IS Tolerant
221706_PM_s_at	USE1	unconventional SNARE in the ER 1 homolog (S. cerevisiae)	0.0031	1.67	Normal up vs > 5 Years Off IS Tolerant
215448_PM_at	---	---	0.0031	-1.84	Normal down vs > 5 Years Off IS Tolerant
223339_PM_at	ATPIF1	ATPase inhibitory factor 1	0.0031	1.81	Normal up vs > 5 Years Off IS Tolerant
1558759_PM_s_at	CLASP2	cytoplasmic linker associated protein 2	0.0031	1.92	Normal up vs > 5 Years Off IS Tolerant
200819_PM_s_at	RPS15	ribosomal protein S15	0.0031	1.25	Normal up vs > 5 Years Off IS Tolerant
227178_PM_at	CELF2	CUGBP, Elav-like family member 2	0.0031	1.39	Normal up vs > 5 Years Off IS Tolerant
243496_PM_at	RAB18	RAB18, member RAS oncogene family	0.0031	1.61	Normal up vs > 5 Years Off IS Tolerant
239586_PM_at	FAM83A	family with sequence similarity 83, member A	0.0031	-1.38	Normal down vs > 5 Years Off IS Tolerant
1558944_PM_at	LOC100508567	hypothetical LOC100508567	0.0031	-1.26	Normal down vs > 5 Years Off IS Tolerant
208792_PM_s_at	CLU	clusterin	0.0031	3.09	Normal up vs > 5 Years Off IS Tolerant
228197_PM_at	C1orf86	Chromosome 1 open reading frame 86	0.0031	-1.41	Normal down vs > 5 Years Off IS Tolerant
1558094_PM_s_at	C3orf19	chromosome 3 open reading frame 19	0.0031	1.59	Normal up vs > 5 Years Off IS Tolerant
231091_PM_x_at	---	---	0.0031	-1.34	Normal down vs > 5 Years Off IS Tolerant
202776_PM_at	DNTTIP2	deoxynucleotidyltransferase, terminal, interacting protein 2	0.0031	1.67	Normal up vs > 5 Years Off IS Tolerant
1569387_PM_at	CSGALNACT1	Chondroitin sulfate N-acetylgalactosaminyltransferase 1	0.0031	1.68	Normal up vs > 5 Years Off IS Tolerant

204645_PM_at	CCNT2	cyclin T2	0.0031	1.99	Normal up vs > 5 Years Off IS Tolerant
225709_PM_at	ARL6IP6	ADP-ribosylation-like factor 6 interacting protein 6	0.0031	-1.31	Normal down vs > 5 Years Off IS Tolerant
221653_PM_x_at	APOL2	apolipoprotein L, 2	0.0031	-1.40	Normal down vs > 5 Years Off IS Tolerant
230668_PM_at	NKAIN4	Na+/K+ transporting ATPase interacting 4	0.0031	-1.34	Normal down vs > 5 Years Off IS Tolerant
200702_PM_s_at	DDX24	DEAD (Asp-Glu-Ala-Asp) box polypeptide 24	0.0031	1.40	Normal up vs > 5 Years Off IS Tolerant
1567611_PM_at	---	---	0.0031	-1.62	Normal down vs > 5 Years Off IS Tolerant
217027_PM_x_at	KPNB1	karyopherin (importin) beta 1	0.0031	1.41	Normal up vs > 5 Years Off IS Tolerant
209314_PM_s_at	HBS1L	HBS1-like (<i>S. cerevisiae</i>)	0.0031	1.69	Normal up vs > 5 Years Off IS Tolerant
209680_PM_s_at	KIFC1	kinesin family member C1	0.0031	-1.39	Normal down vs > 5 Years Off IS Tolerant
233756_PM_at	---	---	0.0031	-1.43	Normal down vs > 5 Years Off IS Tolerant
217106_PM_x_at	DIMT1L	DIM1 dimethyladenosine transferase 1-like (<i>S. cerevisiae</i>)	0.0031	1.42	Normal up vs > 5 Years Off IS Tolerant
223070_PM_at	SELK	selenoprotein K	0.0031	1.65	Normal up vs > 5 Years Off IS Tolerant
1570207_PM_at	FRRS1	ferric-chelate reductase 1	0.0031	-1.36	Normal down vs > 5 Years Off IS Tolerant
216619_PM_at	GTPBP10	GTP-binding protein 10 (putative)	0.0031	-1.46	Normal down vs > 5 Years Off IS Tolerant
211460_PM_at	TTY9A /// TTY9B	testis-specific transcript, Y-linked 9A (non-protein coding) /// testis-specific transc	0.0031	-1.77	Normal down vs > 5 Years Off IS Tolerant
228722_PM_at	PRMT2	protein arginine methyltransferase 2	0.0031	2.13	Normal up vs > 5 Years Off IS Tolerant
221983_PM_at	FAM134A	family with sequence similarity 134, member A	0.0031	1.46	Normal up vs > 5 Years Off IS Tolerant
221945_PM_at	FBXO41	F-box protein 41	0.0031	1.30	Normal up vs > 5 Years Off IS Tolerant
217722_PM_s_at	NGRN	neugrin, neurite outgrowth associated	0.0031	1.74	Normal up vs > 5 Years Off IS Tolerant
240189_PM_at	ACOXL	acyl-CoA oxidase-like	0.0031	-1.31	Normal down vs > 5 Years Off IS Tolerant
229211_PM_at	DUSP28	dual specificity phosphatase 28	0.0031	1.56	Normal up vs > 5 Years Off IS Tolerant
210172_PM_at	SF1	splicing factor 1	0.0031	1.95	Normal up vs > 5 Years Off IS Tolerant
235569_PM_at	VPS37D	vacuolar protein sorting 37 homolog D (<i>S. cerevisiae</i>)	0.0031	-1.59	Normal down vs > 5 Years Off IS Tolerant
209042_PM_s_at	UBE2G2	ubiquitin-conjugating enzyme E2G 2 (UBC7 homolog, yeast)	0.0031	1.28	Normal up vs > 5 Years Off IS Tolerant
210011_PM_s_at	EWSR1	Ewing sarcoma breakpoint region 1	0.0031	1.32	Normal up vs > 5 Years Off IS Tolerant

223865_PM_at	SOX6	SRY (sex determining region Y)-box 6	0.0031	-1.63	Normal down vs > 5 Years Off IS Tolerant
213075_PM_at	OLFML2A	olfactomedin-like 2A	0.0031	-1.28	Normal down vs > 5 Years Off IS Tolerant
203918_PM_at	PCDH1	protocadherin 1	0.0031	-1.35	Normal down vs > 5 Years Off IS Tolerant
217956_PM_s_at	ENOPH1	enolase-phosphatase 1	0.0032	1.42	Normal up vs > 5 Years Off IS Tolerant
219810_PM_at	VCPIP1	valosin containing protein (p97)/p47 complex interacting protein 1	0.0032	1.86	Normal up vs > 5 Years Off IS Tolerant
209230_PM_s_at	NUPR1	nuclear protein, transcriptional regulator, 1	0.0032	-1.33	Normal down vs > 5 Years Off IS Tolerant
215368_PM_at	NEB	nebulin	0.0032	-1.35	Normal down vs > 5 Years Off IS Tolerant
204876_PM_at	ZNF646	zinc finger protein 646	0.0032	-1.45	Normal down vs > 5 Years Off IS Tolerant
204555_PM_s_at	PPP1R3D	protein phosphatase 1, regulatory (inhibitor) subunit 3D	0.0032	-1.44	Normal down vs > 5 Years Off IS Tolerant
235598_PM_at	SMAD2	SMAD family member 2	0.0032	-1.64	Normal down vs > 5 Years Off IS Tolerant
212893_PM_at	ZZZ3	zinc finger, ZZ-type containing 3	0.0032	1.47	Normal up vs > 5 Years Off IS Tolerant
203794_PM_at	CDC42BPA	CDC42 binding protein kinase alpha (DMPK-like)	0.0032	-1.54	Normal down vs > 5 Years Off IS Tolerant
221206_PM_at	PMS2 /// PMS2CL	PMS2 postmeiotic segregation increased 2 (S. cerevisiae) /// PMS2 C-terminal like pseud	0.0032	1.49	Normal up vs > 5 Years Off IS Tolerant
201502_PM_s_at	NFKBIA	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha	0.0032	1.79	Normal up vs > 5 Years Off IS Tolerant
211542_PM_x_at	RPS10	ribosomal protein S10	0.0032	1.20	Normal up vs > 5 Years Off IS Tolerant
233191_PM_at	RUFY2	RUN and FYVE domain containing 2	0.0032	1.50	Normal up vs > 5 Years Off IS Tolerant
218921_PM_at	LOC100294402 /// SIGIRR	single Ig IL-1-related receptor-like /// single immunoglobulin and toll-interleukin 1 r	0.0032	1.47	Normal up vs > 5 Years Off IS Tolerant
230054_PM_at	LOC100507547	hypothetical LOC100507547	0.0032	-1.28	Normal down vs > 5 Years Off IS Tolerant
225746_PM_at	RAB11FIP4	RAB11 family interacting protein 4 (class II)	0.0032	1.57	Normal up vs > 5 Years Off IS Tolerant
224634_PM_at	GPATCH4	G patch domain containing 4	0.0032	1.60	Normal up vs > 5 Years Off IS Tolerant
1560175_PM_at	PPP4R1L	protein phosphatase 4, regulatory subunit 1-like	0.0032	-1.33	Normal down vs > 5 Years Off IS Tolerant
203672_PM_x_at	TPMT	thiopurine S-methyltransferase	0.0032	-2.05	Normal down vs > 5 Years Off IS Tolerant
224587_PM_at	SUB1	SUB1 homolog (S. cerevisiae)	0.0032	1.74	Normal up vs > 5 Years Off IS Tolerant

235881_PM_at	FMNL2	Formin-like 2	0.0032	-1.44	Normal down vs > 5 Years Off IS Tolerant
219213_PM_at	JAM2	junctional adhesion molecule 2	0.0032	-1.48	Normal down vs > 5 Years Off IS Tolerant
207205_PM_at	CEACAM4	carcinoembryonic antigen-related cell adhesion molecule 4	0.0032	-1.48	Normal down vs > 5 Years Off IS Tolerant
230104_PM_s_at	TPPP	tubulin polymerization promoting protein	0.0032	1.38	Normal up vs > 5 Years Off IS Tolerant
209017_PM_s_at	LONP1	lon peptidase 1, mitochondrial	0.0032	1.44	Normal up vs > 5 Years Off IS Tolerant
1562919_PM_at	FAM45A	Family with sequence similarity 45, member A	0.0032	-1.31	Normal down vs > 5 Years Off IS Tolerant
53912_PM_at	SNX11	sorting nexin 11	0.0032	-1.28	Normal down vs > 5 Years Off IS Tolerant
217632_PM_at	GNL3L	guanine nucleotide binding protein-like 3 (nucleolar)-like	0.0032	-1.31	Normal down vs > 5 Years Off IS Tolerant
226282_PM_at	PTPN14	protein tyrosine phosphatase, non-receptor type 14	0.0032	-1.51	Normal down vs > 5 Years Off IS Tolerant
1554636_PM_at	---	---	0.0032	2.02	Normal up vs > 5 Years Off IS Tolerant
208008_PM_at	TBC1D29	TBC1 domain family, member 29	0.0032	-1.33	Normal down vs > 5 Years Off IS Tolerant
222525_PM_s_at	CCDC25	coiled-coil domain containing 25	0.0032	1.61	Normal up vs > 5 Years Off IS Tolerant
202637_PM_s_at	ICAM1	intercellular adhesion molecule 1	0.0032	3.42	Normal up vs > 5 Years Off IS Tolerant
202931_PM_x_at	BIN1	bridging integrator 1	0.0032	1.84	Normal up vs > 5 Years Off IS Tolerant
228166_PM_at	ALG2	Asparagine-linked glycosylation 2, alpha-1,3-mannosyltransferase homolog (S. cerevisiae)	0.0032	-1.39	Normal down vs > 5 Years Off IS Tolerant
1558552_PM_s_at	C3orf55	chromosome 3 open reading frame 55	0.0032	-1.28	Normal down vs > 5 Years Off IS Tolerant
1567242_PM_at	OR2L1P	olfactory receptor, family 2, subfamily L, member 1 pseudogene	0.0032	-1.33	Normal down vs > 5 Years Off IS Tolerant
220859_PM_at	---	---	0.0032	-1.68	Normal down vs > 5 Years Off IS Tolerant
228136_PM_s_at	C17orf70	Chromosome 17 open reading frame 70	0.0032	-1.32	Normal down vs > 5 Years Off IS Tolerant
206326_PM_at	GRP	gastrin-releasing peptide	0.0032	-1.37	Normal down vs > 5 Years Off IS Tolerant
225731_PM_at	ANKRD50	ankyrin repeat domain 50	0.0032	-2.09	Normal down vs > 5 Years Off IS Tolerant
224841_PM_x_at	GAS5	growth arrest-specific 5 (non-protein coding)	0.0032	1.59	Normal up vs > 5 Years Off IS Tolerant
228168_PM_at	ATP5G3	ATP synthase, H+ transporting, mitochondrial Fo complex, subunit C3 (subunit 9)	0.0032	-1.49	Normal down vs > 5 Years Off IS Tolerant

209151_PM_x_at	TCF3	transcription factor 3 (E2A immunoglobulin enhancer binding factors E12/E47)	0.0032	1.30	Normal up vs > 5 Years Off IS Tolerant
238901_PM_at	LOC100505633	hypothetical LOC100505633	0.0032	-1.29	Normal down vs > 5 Years Off IS Tolerant
208491_PM_s_at	PGM5	phosphoglucomutase 5	0.0032	-1.28	Normal down vs > 5 Years Off IS Tolerant
230189_PM_x_at	NELF	Nasal embryonic LHRH factor	0.0032	-1.25	Normal down vs > 5 Years Off IS Tolerant
239659_PM_at	---	---	0.0032	1.42	Normal up vs > 5 Years Off IS Tolerant
1556629_PM_a_at	SNAP25	Synaptosomal-associated protein, 25kDa	0.0032	-1.88	Normal down vs > 5 Years Off IS Tolerant
1558590_PM_at	METT11D1	methyltransferase 11 domain containing 1	0.0032	-1.57	Normal down vs > 5 Years Off IS Tolerant
210387_PM_at	HIST1H2BG	histone cluster 1, H2bg	0.0032	3.55	Normal up vs > 5 Years Off IS Tolerant
212914_PM_at	CBX7	chromobox homolog 7	0.0032	1.52	Normal up vs > 5 Years Off IS Tolerant
224731_PM_at	HMGB1	high-mobility group box 1	0.0032	1.20	Normal up vs > 5 Years Off IS Tolerant
223652_PM_at	AS3MT	arsenic (+3 oxidation state) methyltransferase	0.0032	-1.32	Normal down vs > 5 Years Off IS Tolerant
230738_PM_at	LOC730631	Hypothetical LOC730631	0.0032	-1.66	Normal down vs > 5 Years Off IS Tolerant
222286_PM_at	SNAPC3	small nuclear RNA activating complex, polypeptide 3, 50kDa	0.0032	-1.64	Normal down vs > 5 Years Off IS Tolerant
216705_PM_s_at	ADA	adenosine deaminase	0.0032	1.86	Normal up vs > 5 Years Off IS Tolerant
1556735_PM_at	---	---	0.0032	-2.27	Normal down vs > 5 Years Off IS Tolerant
237620_PM_at	ODF3L2	outer dense fiber of sperm tails 3-like 2	0.0032	-1.39	Normal down vs > 5 Years Off IS Tolerant
244711_PM_at	---	---	0.0032	-1.26	Normal down vs > 5 Years Off IS Tolerant
240648_PM_at	---	---	0.0032	-1.55	Normal down vs > 5 Years Off IS Tolerant
242713_PM_at	---	---	0.0032	-1.29	Normal down vs > 5 Years Off IS Tolerant
32062_PM_at	LRRC14	leucine rich repeat containing 14	0.0032	1.28	Normal up vs > 5 Years Off IS Tolerant
206329_PM_at	EXTL1	exostoses (multiple)-like 1	0.0033	-1.29	Normal down vs > 5 Years Off IS Tolerant
217838_PM_s_at	EVL	Enah/Vasp-like	0.0033	1.53	Normal up vs > 5 Years Off IS Tolerant
1557620_PM_a_at	CCDC38	coiled-coil domain containing 38	0.0033	-1.31	Normal down vs > 5 Years Off IS Tolerant

227053_PM_at	PACSIN1	protein kinase C and casein kinase substrate in neurons 1	0.0033	1.72	Normal up vs > 5 Years Off IS Tolerant
202511_PM_s_at	ATG5	ATG5 autophagy related 5 homolog (S. cerevisiae)	0.0033	1.37	Normal up vs > 5 Years Off IS Tolerant
222784_PM_at	SMOC1	SPARC related modular calcium binding 1	0.0033	-1.55	Normal down vs > 5 Years Off IS Tolerant
229545_PM_at	FERMT1	fermitin family member 1	0.0033	-1.32	Normal down vs > 5 Years Off IS Tolerant
64432_PM_at	C12orf47	chromosome 12 open reading frame 47	0.0033	1.76	Normal up vs > 5 Years Off IS Tolerant
234400_PM_at	---	---	0.0033	-1.33	Normal down vs > 5 Years Off IS Tolerant
224114_PM_at	---	---	0.0033	-2.02	Normal down vs > 5 Years Off IS Tolerant
208535_PM_x_at	COL13A1	collagen, type XIII, alpha 1	0.0033	-1.45	Normal down vs > 5 Years Off IS Tolerant
213414_PM_s_at	RPS19	ribosomal protein S19	0.0033	1.13	Normal up vs > 5 Years Off IS Tolerant
212139_PM_at	GCN1L1	GCN1 general control of amino-acid synthesis 1-like 1 (yeast)	0.0033	1.35	Normal up vs > 5 Years Off IS Tolerant
213914_PM_s_at	SPTBN1	Spectrin, beta, non-erythrocytic 1	0.0033	-1.23	Normal down vs > 5 Years Off IS Tolerant
236460_PM_at	---	---	0.0033	1.64	Normal up vs > 5 Years Off IS Tolerant
204311_PM_at	ATP1B2	ATPase, Na+/K+ transporting, beta 2 polypeptide	0.0033	-1.37	Normal down vs > 5 Years Off IS Tolerant
210948_PM_s_at	LEF1	lymphoid enhancer-binding factor 1	0.0033	2.78	Normal up vs > 5 Years Off IS Tolerant
221804_PM_s_at	FAM45A /// FAM45B	family with sequence similarity 45, member A /// family with sequence similarity 45, me	0.0033	-1.28	Normal down vs > 5 Years Off IS Tolerant
244189_PM_at	TTC28-AS	TTC28 antisense RNA (non-protein coding)	0.0033	1.51	Normal up vs > 5 Years Off IS Tolerant
1563949_PM_at	---	---	0.0033	-1.34	Normal down vs > 5 Years Off IS Tolerant
215579_PM_at	APOBEC3G	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3G	0.0033	-1.38	Normal down vs > 5 Years Off IS Tolerant
206589_PM_at	GFI1	growth factor independent 1 transcription repressor	0.0033	1.85	Normal up vs > 5 Years Off IS Tolerant
236473_PM_at	CC2D2A	coiled-coil and C2 domain containing 2A	0.0033	-1.38	Normal down vs > 5 Years Off IS Tolerant
231714_PM_s_at	AP4B1	adaptor-related protein complex 4, beta 1 subunit	0.0033	1.36	Normal up vs > 5 Years Off IS Tolerant
1567181_PM_x_at	---	---	0.0033	-1.33	Normal down vs > 5 Years Off IS Tolerant
220940_PM_at	ANKRD36B	ankyrin repeat domain 36B	0.0033	1.71	Normal up vs > 5 Years Off IS Tolerant
228442_PM_at	NFATC2	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2	0.0033	2.01	Normal up vs > 5 Years Off IS Tolerant

213890_PM_x_at	RPS16	ribosomal protein S16	0.0033	1.13	Normal up vs > 5 Years Off IS Tolerant
242971_PM_at	---	---	0.0033	-1.35	Normal down vs > 5 Years Off IS Tolerant
1558214_PM_s_at	CTNNA1	catenin (cadherin-associated protein), alpha 1, 102kDa	0.0033	-1.46	Normal down vs > 5 Years Off IS Tolerant
212083_PM_at	TEX261	testis expressed 261	0.0033	1.51	Normal up vs > 5 Years Off IS Tolerant
226835_PM_s_at	NCRNA00275	non-protein coding RNA 275	0.0033	1.32	Normal up vs > 5 Years Off IS Tolerant
200072_PM_s_at	HNRNPM	heterogeneous nuclear ribonucleoprotein M	0.0033	1.20	Normal up vs > 5 Years Off IS Tolerant
217461_PM_x_at	BTF3	basic transcription factor 3	0.0033	1.33	Normal up vs > 5 Years Off IS Tolerant
204372_PM_s_at	KHSRP	KH-type splicing regulatory protein	0.0033	1.41	Normal up vs > 5 Years Off IS Tolerant
227430_PM_at	ZC3H10	zinc finger CCCH-type containing 10	0.0033	-1.34	Normal down vs > 5 Years Off IS Tolerant
207624_PM_s_at	RPGR	retinitis pigmentosa GTPase regulator	0.0033	1.82	Normal up vs > 5 Years Off IS Tolerant
201176_PM_s_at	ARCN1	archain 1	0.0033	1.58	Normal up vs > 5 Years Off IS Tolerant
220948_PM_s_at	ATP1A1	ATPase, Na ⁺ /K ⁺ transporting, alpha 1 polypeptide	0.0033	1.31	Normal up vs > 5 Years Off IS Tolerant
221689_PM_s_at	PIGP	phosphatidylinositol glycan anchor biosynthesis, class P	0.0033	1.81	Normal up vs > 5 Years Off IS Tolerant
222408_PM_s_at	YPEL5	yippee-like 5 (Drosophila)	0.0033	1.69	Normal up vs > 5 Years Off IS Tolerant
237763_PM_at	---	---	0.0033	-1.33	Normal down vs > 5 Years Off IS Tolerant
243168_PM_at	---	---	0.0033	-1.32	Normal down vs > 5 Years Off IS Tolerant
223771_PM_at	TMEM87A	Transmembrane protein 87A	0.0033	1.85	Normal up vs > 5 Years Off IS Tolerant
214444_PM_s_at	PVR	poliovirus receptor	0.0033	-1.31	Normal down vs > 5 Years Off IS Tolerant
203523_PM_at	LSP1	lymphocyte-specific protein 1	0.0034	-1.52	Normal down vs > 5 Years Off IS Tolerant
223007_PM_s_at	C9orf5	chromosome 9 open reading frame 5	0.0034	1.66	Normal up vs > 5 Years Off IS Tolerant
214398_PM_s_at	IKBKE	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase epsilon	0.0034	1.89	Normal up vs > 5 Years Off IS Tolerant
223763_PM_at	DTNBP1	dystrobrevin binding protein 1	0.0034	-1.43	Normal down vs > 5 Years Off IS Tolerant
242973_PM_at	CACNA1C	calcium channel, voltage-dependent, L type, alpha 1C subunit	0.0034	-1.27	Normal down vs > 5 Years Off IS Tolerant
214839_PM_at	LOC157627	hypothetical LOC157627	0.0034	-1.40	Normal down vs > 5 Years Off IS Tolerant
217249_PM_x_at	---	---	0.0034	1.36	Normal up vs > 5 Years Off IS Tolerant
240795_PM_at	---	---	0.0034	-1.28	Normal down vs > 5 Years Off IS Tolerant

218464_PM_s_at	C17orf63	chromosome 17 open reading frame 63	0.0034	1.41	Normal up vs > 5 Years Off IS Tolerant
207857_PM_at	LILRA2	leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 2	0.0034	-1.62	Normal down vs > 5 Years Off IS Tolerant
201845_PM_s_at	RYBP	RING1 and YY1 binding protein	0.0034	1.52	Normal up vs > 5 Years Off IS Tolerant
207267_PM_s_at	DSCR6	Down syndrome critical region gene 6	0.0034	-1.40	Normal down vs > 5 Years Off IS Tolerant
239304_PM_at	MFSD4	major facilitator superfamily domain containing 4	0.0034	-1.35	Normal down vs > 5 Years Off IS Tolerant
203504_PM_s_at	ABCA1	ATP-binding cassette, sub-family A (ABC1), member 1	0.0034	3.33	Normal up vs > 5 Years Off IS Tolerant
237832_PM_at	---	---	0.0034	-1.77	Normal down vs > 5 Years Off IS Tolerant
208650_PM_s_at	CD24	CD24 molecule	0.0034	2.73	Normal up vs > 5 Years Off IS Tolerant
206140_PM_at	LHX2	LIM homeobox 2	0.0034	-1.21	Normal down vs > 5 Years Off IS Tolerant
208094_PM_s_at	CCDC130	coiled-coil domain containing 130	0.0034	1.44	Normal up vs > 5 Years Off IS Tolerant
1564231_PM_at	IFT80	intraflagellar transport 80 homolog (Chlamydomonas)	0.0034	-1.42	Normal down vs > 5 Years Off IS Tolerant
241262_PM_at	LOC100505728	hypothetical LOC100505728	0.0034	1.40	Normal up vs > 5 Years Off IS Tolerant
244143_PM_at	---	---	0.0034	-1.44	Normal down vs > 5 Years Off IS Tolerant
233075_PM_at	HERC2P7	hect domain and RLD 2 pseudogene 7	0.0034	-1.61	Normal down vs > 5 Years Off IS Tolerant
227073_PM_at	LOC100506904 /// MAP3K2	hypothetical LOC100506904 /// mitogen-activated protein kinase kinase kinase 2	0.0034	1.83	Normal up vs > 5 Years Off IS Tolerant
200867_PM_at	RNF114	ring finger protein 114	0.0034	1.45	Normal up vs > 5 Years Off IS Tolerant
214299_PM_at	TOP3A	topoisomerase (DNA) III alpha	0.0034	-1.35	Normal down vs > 5 Years Off IS Tolerant
224009_PM_x_at	DHRS9	dehydrogenase/reductase (SDR family) member 9	0.0034	-2.52	Normal down vs > 5 Years Off IS Tolerant
243356_PM_at	---	---	0.0034	-1.81	Normal down vs > 5 Years Off IS Tolerant
233372_PM_at	---	---	0.0034	-1.23	Normal down vs > 5 Years Off IS Tolerant
235292_PM_at	FLJ32255	hypothetical LOC643977	0.0034	2.26	Normal up vs > 5 Years Off IS Tolerant
240530_PM_at	---	---	0.0034	1.32	Normal up vs > 5 Years Off IS Tolerant
220534_PM_at	TRIM48	tripartite motif-containing 48	0.0034	-1.90	Normal down vs > 5 Years Off IS Tolerant
235158_PM_at	TMEM209	transmembrane protein 209	0.0034	1.78	Normal up vs > 5 Years Off IS Tolerant

212988_PM_x_at	ACTG1	actin, gamma 1	0.0034	-1.15	Normal down vs > 5 Years Off IS Tolerant
223376_PM_s_at	BRI3	brain protein I3	0.0034	-1.46	Normal down vs > 5 Years Off IS Tolerant
206651_PM_s_at	CPB2	carboxypeptidase B2 (plasma)	0.0034	-1.35	Normal down vs > 5 Years Off IS Tolerant
215736_PM_at	---	---	0.0034	-1.95	Normal down vs > 5 Years Off IS Tolerant
1561262_PM_at	---	---	0.0034	-1.65	Normal down vs > 5 Years Off IS Tolerant
209350_PM_s_at	GPS2	G protein pathway suppressor 2	0.0034	1.47	Normal up vs > 5 Years Off IS Tolerant
1555729_PM_a_at	CD209	CD209 molecule	0.0034	-1.31	Normal down vs > 5 Years Off IS Tolerant
230422_PM_at	FPR3	formyl peptide receptor 3	0.0034	-1.74	Normal down vs > 5 Years Off IS Tolerant
202176_PM_at	ERCC3	excision repair cross-complementing rodent repair deficiency, complementation group 3 (0.0034	1.42	Normal up vs > 5 Years Off IS Tolerant
222473_PM_s_at	ERBB2IP	erb2 interacting protein	0.0034	1.30	Normal up vs > 5 Years Off IS Tolerant
222009_PM_at	CEMP1	cementum protein 1	0.0034	-1.32	Normal down vs > 5 Years Off IS Tolerant
208950_PM_s_at	ALDH7A1	aldehyde dehydrogenase 7 family, member A1	0.0034	-1.31	Normal down vs > 5 Years Off IS Tolerant
237042_PM_at	LOC100507789	hypothetical LOC100507789	0.0034	-1.37	Normal down vs > 5 Years Off IS Tolerant
1553695_PM_a_at	NLRX1	NLR family member X1	0.0034	-1.29	Normal down vs > 5 Years Off IS Tolerant
216278_PM_at	---	---	0.0034	1.72	Normal up vs > 5 Years Off IS Tolerant
204471_PM_at	GAP43	growth associated protein 43	0.0034	-1.39	Normal down vs > 5 Years Off IS Tolerant
1558473_PM_at	---	---	0.0034	-1.69	Normal down vs > 5 Years Off IS Tolerant
234011_PM_at	MGC16384	Hypothetical LOC114130	0.0035	-1.55	Normal down vs > 5 Years Off IS Tolerant
233694_PM_at	HSPA1L	Heat shock 70kDa protein 1-like	0.0035	-1.46	Normal down vs > 5 Years Off IS Tolerant
219433_PM_at	BCOR	BCL6 corepressor	0.0035	2.12	Normal up vs > 5 Years Off IS Tolerant
221266_PM_s_at	TM7SF4	transmembrane 7 superfamily member 4	0.0035	-1.30	Normal down vs > 5 Years Off IS Tolerant
242864_PM_at	ZNF554	zinc finger protein 554	0.0035	1.31	Normal up vs > 5 Years Off IS Tolerant

1562908_PM_at	LOC339468	hypothetical protein LOC339468	0.0035	-1.54	Normal down vs > 5 Years Off IS Tolerant
240169_PM_at	---	---	0.0035	-1.50	Normal down vs > 5 Years Off IS Tolerant
215814_PM_at	DST	Dystonin	0.0035	-1.24	Normal down vs > 5 Years Off IS Tolerant
1560659_PM_at	---	---	0.0035	1.73	Normal up vs > 5 Years Off IS Tolerant
216095_PM_x_at	MTMR1	myotubularin related protein 1	0.0035	1.27	Normal up vs > 5 Years Off IS Tolerant
243575_PM_at	MAST4	microtubule associated serine/threonine kinase family member 4	0.0035	-1.29	Normal down vs > 5 Years Off IS Tolerant
207850_PM_at	CXCL3	chemokine (C-X-C motif) ligand 3	0.0035	3.57	Normal up vs > 5 Years Off IS Tolerant
226421_PM_at	AMMECR1	Alport syndrome, mental retardation, midface hypoplasia and elliptocytosis chromosomal	0.0035	1.91	Normal up vs > 5 Years Off IS Tolerant
237858_PM_s_at	MTUS2	Microtubule associated tumor suppressor candidate 2	0.0035	1.43	Normal up vs > 5 Years Off IS Tolerant
217542_PM_at	MDM2	Mdm2 p53 binding protein homolog (mouse)	0.0035	-1.37	Normal down vs > 5 Years Off IS Tolerant
212786_PM_at	CLEC16A	C-type lectin domain family 16, member A	0.0035	1.38	Normal up vs > 5 Years Off IS Tolerant
222841_PM_s_at	TIMM22	translocase of inner mitochondrial membrane 22 homolog (yeast)	0.0035	1.53	Normal up vs > 5 Years Off IS Tolerant
238439_PM_at	ANKRD22	ankyrin repeat domain 22	0.0035	-2.15	Normal down vs > 5 Years Off IS Tolerant
237090_PM_at	LOC100506113	hypothetical LOC100506113	0.0035	-1.29	Normal down vs > 5 Years Off IS Tolerant
228217_PM_s_at	PSMG4	proteasome (prosome, macropain) assembly chaperone 4	0.0035	1.75	Normal up vs > 5 Years Off IS Tolerant
229575_PM_at	---	---	0.0035	1.59	Normal up vs > 5 Years Off IS Tolerant
224153_PM_s_at	C14orf167	chromosome 14 open reading frame 167	0.0035	-1.41	Normal down vs > 5 Years Off IS Tolerant
212746_PM_s_at	CEP170	centrosomal protein 170kDa	0.0035	-1.54	Normal down vs > 5 Years Off IS Tolerant
227066_PM_at	MOBKL2C	MOB1, Mps One Binder kinase activator-like 2C (yeast)	0.0035	-1.58	Normal down vs > 5 Years Off IS Tolerant
203824_PM_at	TSPAN8	tetraspanin 8	0.0035	-1.42	Normal down vs > 5 Years Off IS Tolerant
222916_PM_s_at	HDLBP	high density lipoprotein binding protein	0.0035	1.40	Normal up vs > 5 Years Off IS Tolerant
229288_PM_at	EPHA7	EPH receptor A7	0.0035	-1.89	Normal down vs > 5 Years Off IS Tolerant

244167_PM_at	---	---	0.0035	-1.85	Normal down vs > 5 Years Off IS Tolerant
236622_PM_at	PIGM	phosphatidylinositol glycan anchor biosynthesis, class M	0.0035	-1.42	Normal down vs > 5 Years Off IS Tolerant
1566665_PM_at	C13orf40	chromosome 13 open reading frame 40	0.0035	-1.70	Normal down vs > 5 Years Off IS Tolerant
234907_PM_x_at	---	---	0.0035	2.22	Normal up vs > 5 Years Off IS Tolerant
212316_PM_at	NUP210	nucleoporin 210kDa	0.0035	1.46	Normal up vs > 5 Years Off IS Tolerant
200838_PM_at	CTSB	cathepsin B	0.0035	-1.58	Normal down vs > 5 Years Off IS Tolerant
200016_PM_x_at	HNRNPA1	heterogeneous nuclear ribonucleoprotein A1	0.0035	1.11	Normal up vs > 5 Years Off IS Tolerant
238881_PM_at	---	---	0.0035	-1.35	Normal down vs > 5 Years Off IS Tolerant
239982_PM_at	---	---	0.0035	1.44	Normal up vs > 5 Years Off IS Tolerant
212847_PM_at	FUBP1	Far upstream element (FUSE) binding protein 1	0.0035	1.50	Normal up vs > 5 Years Off IS Tolerant
241011_PM_at	---	---	0.0035	-1.32	Normal down vs > 5 Years Off IS Tolerant
38447_PM_at	ADRBK1	adrenergic, beta, receptor kinase 1	0.0035	-1.46	Normal down vs > 5 Years Off IS Tolerant
1554971_PM_at	OK/SW-CL.58	OK/SW-CL.58	0.0035	1.41	Normal up vs > 5 Years Off IS Tolerant
243311_PM_at	DEFB132	defensin, beta 132	0.0035	-1.46	Normal down vs > 5 Years Off IS Tolerant
211552_PM_s_at	ALDH4A1	aldehyde dehydrogenase 4 family, member A1	0.0035	-1.34	Normal down vs > 5 Years Off IS Tolerant
226374_PM_at	CXADR	coxsackie virus and adenovirus receptor	0.0035	-1.28	Normal down vs > 5 Years Off IS Tolerant
1555759_PM_a_at	CCL5	chemokine (C-C motif) ligand 5	0.0035	2.10	Normal up vs > 5 Years Off IS Tolerant
233356_PM_at	---	---	0.0035	-1.55	Normal down vs > 5 Years Off IS Tolerant
234026_PM_at	EML2	Echinoderm microtubule associated protein like 2	0.0035	-1.49	Normal down vs > 5 Years Off IS Tolerant
244286_PM_at	---	---	0.0035	1.88	Normal up vs > 5 Years Off IS Tolerant
221955_PM_at	---	---	0.0035	-1.29	Normal down vs > 5 Years Off IS Tolerant
1564012_PM_at	LOC100132354	hypothetical LOC100132354	0.0035	-1.33	Normal down vs > 5 Years Off IS Tolerant
224419_PM_x_at	PMCHL1	pro-melanin-concentrating hormone-like 1, pseudogene	0.0035	-1.59	Normal down vs > 5 Years Off IS Tolerant

224111_PM_x_at	KLF16	Kruppel-like factor 16	0.0035	-1.41	Normal down vs > 5 Years Off IS Tolerant
1555526_PM_a_at	6-Sep	septin 6	0.0035	1.53	Normal up vs > 5 Years Off IS Tolerant
211354_PM_s_at	LEPR	leptin receptor	0.0035	1.39	Normal up vs > 5 Years Off IS Tolerant
1558703_PM_at	SLC46A1	solute carrier family 46 (folate transporter), member 1	0.0035	-1.41	Normal down vs > 5 Years Off IS Tolerant
226096_PM_at	FNDC5	fibronectin type III domain containing 5	0.0035	-1.34	Normal down vs > 5 Years Off IS Tolerant
215275_PM_at	TRAF3IP3	TRAF3 interacting protein 3	0.0035	1.74	Normal up vs > 5 Years Off IS Tolerant
1561544_PM_at	---	---	0.0035	-1.36	Normal down vs > 5 Years Off IS Tolerant
222200_PM_s_at	BSDC1	BSD domain containing 1	0.0035	1.34	Normal up vs > 5 Years Off IS Tolerant
222555_PM_s_at	MRPL44	mitochondrial ribosomal protein L44	0.0035	2.05	Normal up vs > 5 Years Off IS Tolerant
224596_PM_at	SLC44A1	solute carrier family 44, member 1	0.0035	1.57	Normal up vs > 5 Years Off IS Tolerant
212201_PM_at	ANKLE2	ankyrin repeat and LEM domain containing 2	0.0035	1.59	Normal up vs > 5 Years Off IS Tolerant
218440_PM_at	MCCC1	methylcrotonoyl-CoA carboxylase 1 (alpha)	0.0035	1.35	Normal up vs > 5 Years Off IS Tolerant
1565857_PM_at	---	---	0.0035	-1.40	Normal down vs > 5 Years Off IS Tolerant
224442_PM_at	PHF6	PHD finger protein 6	0.0035	-1.27	Normal down vs > 5 Years Off IS Tolerant
32540_PM_at	---	---	0.0035	-1.43	Normal down vs > 5 Years Off IS Tolerant
242749_PM_at	---	---	0.0035	1.70	Normal up vs > 5 Years Off IS Tolerant
226314_PM_at	CHST14	carbohydrate (N-acetylgalactosamine 4-0) sulfotransferase 14	0.0035	-1.39	Normal down vs > 5 Years Off IS Tolerant
240762_PM_at	---	---	0.0036	1.88	Normal up vs > 5 Years Off IS Tolerant
207366_PM_at	KCNS1	potassium voltage-gated channel, delayed-rectifier, subfamily S, member 1	0.0036	-1.32	Normal down vs > 5 Years Off IS Tolerant
204092_PM_s_at	AURKA	aurora kinase A	0.0036	-1.38	Normal down vs > 5 Years Off IS Tolerant
205876_PM_at	LIFR	leukemia inhibitory factor receptor alpha	0.0036	-1.24	Normal down vs > 5 Years Off IS Tolerant
228326_PM_at	WDR27	WD repeat domain 27	0.0036	1.65	Normal up vs > 5 Years Off IS Tolerant
236804_PM_at	---	---	0.0036	-1.38	Normal down vs > 5 Years Off IS Tolerant
1568593_PM_a_at	NUDT16P1	nudix (nucleoside diphosphate linked moiety X)-type motif 16 pseudogene 1	0.0036	-1.81	Normal down vs > 5 Years Off IS Tolerant
230810_PM_at	JMJD4	jumonji domain containing 4	0.0036	-1.29	Normal down vs > 5 Years Off IS Tolerant

221752_PM_at	SSH1	slingshot homolog 1 (Drosophila)	0.0036	1.83	Normal up vs > 5 Years Off IS Tolerant
227682_PM_at	---	---	0.0036	1.82	Normal up vs > 5 Years Off IS Tolerant
237239_PM_at	---	---	0.0036	1.57	Normal up vs > 5 Years Off IS Tolerant
218880_PM_at	FOSL2	FOS-like antigen 2	0.0036	3.69	Normal up vs > 5 Years Off IS Tolerant
232311_PM_at	B2M	Beta-2-microglobulin	0.0036	1.63	Normal up vs > 5 Years Off IS Tolerant
230682_PM_x_at	ABCC3	ATP-binding cassette, sub-family C (CFTR/MRP), member 3	0.0036	-1.64	Normal down vs > 5 Years Off IS Tolerant
233128_PM_at	---	---	0.0036	-1.27	Normal down vs > 5 Years Off IS Tolerant
208105_PM_at	GIPR	gastric inhibitory polypeptide receptor	0.0036	-1.35	Normal down vs > 5 Years Off IS Tolerant
1570298_PM_at	---	---	0.0036	-1.44	Normal down vs > 5 Years Off IS Tolerant
227970_PM_at	GPR157	G protein-coupled receptor 157	0.0036	1.51	Normal up vs > 5 Years Off IS Tolerant
209867_PM_s_at	LPHN3	latrophilin 3	0.0036	-1.55	Normal down vs > 5 Years Off IS Tolerant
1556086_PM_at	C4orf27	chromosome 4 open reading frame 27	0.0036	-1.31	Normal down vs > 5 Years Off IS Tolerant
204067_PM_at	SUOX	sulfite oxidase	0.0036	-1.56	Normal down vs > 5 Years Off IS Tolerant
200817_PM_x_at	RPS10	ribosomal protein S10	0.0036	1.18	Normal up vs > 5 Years Off IS Tolerant
235858_PM_at	CREBBP	CREB binding protein	0.0036	-1.40	Normal down vs > 5 Years Off IS Tolerant
210423_PM_s_at	SLC11A1	solute carrier family 11 (proton-coupled divalent metal ion transporters), member 1	0.0036	-1.72	Normal down vs > 5 Years Off IS Tolerant
202576_PM_s_at	DDX19A /// DDX19B	DEAD (Asp-Glu-Ala-As) box polypeptide 19A /// DEAD (Asp-Glu-Ala-As) box polypeptide 19B	0.0036	1.44	Normal up vs > 5 Years Off IS Tolerant
208307_PM_at	RBMY1A1 /// RBMY1D	RNA binding motif protein, Y-linked, family 1, member A1 /// RNA binding motif protein,	0.0036	-2.32	Normal down vs > 5 Years Off IS Tolerant
224842_PM_at	SMG1	SMG1 homolog, phosphatidylinositol 3-kinase-related kinase (C. elegans)	0.0036	1.37	Normal up vs > 5 Years Off IS Tolerant
229353_PM_s_at	NUCKS1	nuclear casein kinase and cyclin-dependent kinase substrate 1	0.0036	1.28	Normal up vs > 5 Years Off IS Tolerant
1555351_PM_s_at	PPHLN1	periphilin 1	0.0036	1.47	Normal up vs > 5 Years Off IS Tolerant
241826_PM_x_at	ZNF738	zinc finger protein 738	0.0036	-1.31	Normal down vs > 5 Years Off IS Tolerant
206881_PM_s_at	LILRA3	leukocyte immunoglobulin-like receptor, subfamily A (without TM domain), member 3	0.0036	-2.86	Normal down vs > 5 Years Off IS Tolerant
222082_PM_at	ZBTB7A	zinc finger and BTB domain containing 7A	0.0036	1.68	Normal up vs > 5 Years Off IS Tolerant

215948_PM_x_at	ZMYM5	zinc finger, MYM-type 5	0.0036	1.73	Normal up vs > 5 Years Off IS Tolerant
221691_PM_x_at	NPM1	nucleophosmin (nucleolar phosphoprotein B23, numatrin)	0.0036	1.35	Normal up vs > 5 Years Off IS Tolerant
1555111_PM_at	C1orf114	chromosome 1 open reading frame 114	0.0036	-1.26	Normal down vs > 5 Years Off IS Tolerant
232463_PM_at	NCRNA00107	non-protein coding RNA 107	0.0036	1.48	Normal up vs > 5 Years Off IS Tolerant
213074_PM_at	PHIP	pleckstrin homology domain interacting protein	0.0036	1.24	Normal up vs > 5 Years Off IS Tolerant
240359_PM_at	C20orf71	chromosome 20 open reading frame 71	0.0036	-1.27	Normal down vs > 5 Years Off IS Tolerant
211034_PM_s_at	C12orf51	chromosome 12 open reading frame 51	0.0036	1.46	Normal up vs > 5 Years Off IS Tolerant
1560278_PM_at	LOC221122	hypothetical LOC221122	0.0036	-1.62	Normal down vs > 5 Years Off IS Tolerant
223043_PM_at	TMEM85	transmembrane protein 85	0.0036	1.48	Normal up vs > 5 Years Off IS Tolerant
1563854_PM_s_at	LOC283045	hypothetical protein LOC283045	0.0036	-1.51	Normal down vs > 5 Years Off IS Tolerant
233010_PM_at	---	---	0.0036	-1.45	Normal down vs > 5 Years Off IS Tolerant
1557833_PM_at	---	---	0.0036	-1.92	Normal down vs > 5 Years Off IS Tolerant
227494_PM_at	LOC253842 /// NR6A1	hypothetical protein LOC253842 /// nuclear receptor subfamily 6, group A, member 1	0.0036	-1.48	Normal down vs > 5 Years Off IS Tolerant
238070_PM_at	---	---	0.0036	1.59	Normal up vs > 5 Years Off IS Tolerant
205374_PM_at	SLN	sarcolipin	0.0036	-1.21	Normal down vs > 5 Years Off IS Tolerant
219686_PM_at	STK32B	serine/threonine kinase 32B	0.0036	-1.32	Normal down vs > 5 Years Off IS Tolerant
200074_PM_s_at	RPL14	ribosomal protein L14	0.0036	1.26	Normal up vs > 5 Years Off IS Tolerant
205859_PM_at	LY86	lymphocyte antigen 86	0.0037	-1.56	Normal down vs > 5 Years Off IS Tolerant
1554155_PM_at	MCPH1	microcephalin 1	0.0037	1.88	Normal up vs > 5 Years Off IS Tolerant
219624_PM_at	BAG4	BCL2-associated athanogene 4	0.0037	2.03	Normal up vs > 5 Years Off IS Tolerant
218888_PM_s_at	NETO2	neuropilin (NRP) and tolloid (TLL)-like 2	0.0037	-1.58	Normal down vs > 5 Years Off IS Tolerant
235501_PM_at	---	---	0.0037	-1.48	Normal down vs > 5 Years Off IS Tolerant
223190_PM_s_at	MLL5	myeloid/lymphoid or mixed-lineage leukemia 5 (trithorax homolog, Drosophila)	0.0037	1.28	Normal up vs > 5 Years Off IS Tolerant
203114_PM_at	SSSCA1	Sjogren syndrome/scleroderma autoantigen 1	0.0037	1.47	Normal up vs > 5 Years Off IS Tolerant
217347_PM_at	---	---	0.0037	1.30	Normal up vs > 5 Years Off IS Tolerant

229424_PM_s_at	LOC100288194	Hypothetical protein LOC100288194	0.0037	-1.27	Normal down vs > 5 Years Off IS Tolerant
216235_PM_s_at	EDNRA	endothelin receptor type A	0.0037	-1.31	Normal down vs > 5 Years Off IS Tolerant
228784_PM_at	ST3GAL2	ST3 beta-galactoside alpha-2,3-sialyltransferase 2	0.0037	-1.35	Normal down vs > 5 Years Off IS Tolerant
1566766_PM_a_at	MACC1	metastasis associated in colon cancer 1	0.0037	-1.88	Normal down vs > 5 Years Off IS Tolerant
243095_PM_at	---	---	0.0037	-1.29	Normal down vs > 5 Years Off IS Tolerant
204587_PM_at	SLC25A14	solute carrier family 25 (mitochondrial carrier, brain), member 14	0.0037	1.35	Normal up vs > 5 Years Off IS Tolerant
1560901_PM_at	LOC728789	Hypothetical LOC728789	0.0037	-1.27	Normal down vs > 5 Years Off IS Tolerant
215126_PM_at	---	---	0.0037	-1.61	Normal down vs > 5 Years Off IS Tolerant
1556917_PM_a_at	---	---	0.0037	-1.23	Normal down vs > 5 Years Off IS Tolerant
225435_PM_at	SSR1	signal sequence receptor, alpha	0.0037	1.76	Normal up vs > 5 Years Off IS Tolerant
1555374_PM_at	---	---	0.0037	-1.44	Normal down vs > 5 Years Off IS Tolerant
AFFX-BioC-3_at	---	---	0.0037	-2.13	Normal down vs > 5 Years Off IS Tolerant
243373_PM_at	---	---	0.0037	-1.42	Normal down vs > 5 Years Off IS Tolerant
211796_PM_s_at	TRBC1 /// TRBC2	T cell receptor beta constant 1 /// T cell receptor beta constant 2	0.0037	2.13	Normal up vs > 5 Years Off IS Tolerant
1556486_PM_at	LOC100288618	Hypothetical protein LOC100288618	0.0037	-1.37	Normal down vs > 5 Years Off IS Tolerant
396_PM_f_at	EPOR	erythropoietin receptor	0.0037	-1.92	Normal down vs > 5 Years Off IS Tolerant
225648_PM_at	STK35	serine/threonine kinase 35	0.0037	1.50	Normal up vs > 5 Years Off IS Tolerant
203209_PM_at	RFC5	replication factor C (activator 1) 5, 36.5kDa	0.0037	1.64	Normal up vs > 5 Years Off IS Tolerant
203822_PM_s_at	ELF2	E74-like factor 2 (ets domain transcription factor)	0.0037	1.27	Normal up vs > 5 Years Off IS Tolerant
1552729_PM_at	SNHG7	small nucleolar RNA host gene 7 (non-protein coding)	0.0037	1.99	Normal up vs > 5 Years Off IS Tolerant
217348_PM_x_at	ARHGEF15	Rho guanine nucleotide exchange factor (GEF) 15	0.0037	-1.46	Normal down vs > 5 Years Off IS Tolerant
1566967_PM_at	---	---	0.0037	-1.33	Normal down vs > 5 Years Off IS Tolerant

208253_PM_at	SIGLEC8	sialic acid binding Ig-like lectin 8	0.0037	-1.31	Normal down vs > 5 Years Off IS Tolerant
1560977_PM_a_at	BCL2L13	BCL2-like 13 (apoptosis facilitator)	0.0037	-1.82	Normal down vs > 5 Years Off IS Tolerant
1563498_PM_s_at	SLC25A45	solute carrier family 25, member 45	0.0037	1.74	Normal up vs > 5 Years Off IS Tolerant
207575_PM_at	GOLGA6A /// GOLGA6C	golgin A6 family, member A /// golgin A6 family, member C	0.0037	-1.49	Normal down vs > 5 Years Off IS Tolerant
226482_PM_s_at	TSTD1	thiosulfate sulfurtransferase (rhodanese)-like domain containing 1	0.0037	1.73	Normal up vs > 5 Years Off IS Tolerant
207914_PM_x_at	EVX1	even-skipped homeobox 1	0.0037	-1.34	Normal down vs > 5 Years Off IS Tolerant
213744_PM_at	ATRNL1	attractin-like 1	0.0037	-1.47	Normal down vs > 5 Years Off IS Tolerant
227189_PM_at	CPNE5	copine V	0.0037	1.61	Normal up vs > 5 Years Off IS Tolerant
206006_PM_s_at	KIAA1009	KIAA1009	0.0037	-1.53	Normal down vs > 5 Years Off IS Tolerant
1554441_PM_a_at	WAPAL	wings apart-like homolog (Drosophila)	0.0037	1.64	Normal up vs > 5 Years Off IS Tolerant
233863_PM_at	CASZ1	castor zinc finger 1	0.0037	1.43	Normal up vs > 5 Years Off IS Tolerant
233921_PM_s_at	---	---	0.0037	2.07	Normal up vs > 5 Years Off IS Tolerant
225155_PM_at	SNHG5	small nucleolar RNA host gene 5 (non-protein coding)	0.0037	2.06	Normal up vs > 5 Years Off IS Tolerant
214359_PM_s_at	HSP90AB1	heat shock protein 90kDa alpha (cytosolic), class B member 1	0.0037	1.68	Normal up vs > 5 Years Off IS Tolerant
1566994_PM_at	---	---	0.0037	-1.95	Normal down vs > 5 Years Off IS Tolerant
238576_PM_at	MOCOS	molybdenum cofactor sulfurase	0.0038	-1.38	Normal down vs > 5 Years Off IS Tolerant
206469_PM_x_at	AKR7A3	aldo-keto reductase family 7, member A3 (aflatoxin aldehyde reductase)	0.0038	1.31	Normal up vs > 5 Years Off IS Tolerant
37145_PM_at	GNLY	granulysin	0.0038	2.65	Normal up vs > 5 Years Off IS Tolerant
213593_PM_s_at	TRA2A	transformer 2 alpha homolog (Drosophila)	0.0038	1.63	Normal up vs > 5 Years Off IS Tolerant
208278_PM_s_at	---	---	0.0038	-1.38	Normal down vs > 5 Years Off IS Tolerant
1554697_PM_at	ADAMTS9	ADAM metallopeptidase with thrombospondin type 1 motif, 9	0.0038	-1.32	Normal down vs > 5 Years Off IS Tolerant
210739_PM_x_at	SLC4A4	solute carrier family 4, sodium bicarbonate cotransporter, member 4	0.0038	-3.58	Normal down vs > 5 Years Off IS Tolerant
225608_PM_at	SNX29	sorting nexin 29	0.0038	1.45	Normal up vs > 5 Years Off IS Tolerant
1555544_PM_a_at	CADM2	cell adhesion molecule 2	0.0038	-1.32	Normal down vs > 5 Years Off IS Tolerant

218333_PM_at	DERL2	Der1-like domain family, member 2	0.0038	1.41	Normal up vs > 5 Years Off IS Tolerant
211608_PM_at	---	---	0.0038	1.52	Normal up vs > 5 Years Off IS Tolerant
215028_PM_at	SEMA6A	sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A	0.0038	-1.29	Normal down vs > 5 Years Off IS Tolerant
205864_PM_at	SLC7A4	solute carrier family 7 (cationic amino acid transporter, y+ system), member 4	0.0038	-1.27	Normal down vs > 5 Years Off IS Tolerant
235356_PM_at	NHLRC2	NHL repeat containing 2	0.0038	-1.40	Normal down vs > 5 Years Off IS Tolerant
221403_PM_s_at	INSL6	insulin-like 6	0.0038	-1.29	Normal down vs > 5 Years Off IS Tolerant
224007_PM_at	HSFY1 /// HSFY2	heat shock transcription factor, Y-linked 1 /// heat shock transcription factor, Y link	0.0038	-1.75	Normal down vs > 5 Years Off IS Tolerant
41047_PM_at	C9orf16	chromosome 9 open reading frame 16	0.0038	1.61	Normal up vs > 5 Years Off IS Tolerant
202742_PM_s_at	PRKACB	protein kinase, cAMP-dependent, catalytic, beta	0.0038	1.94	Normal up vs > 5 Years Off IS Tolerant
1561883_PM_at	---	---	0.0038	-1.33	Normal down vs > 5 Years Off IS Tolerant
218923_PM_at	CTBS	chitinase, di-N-acetyl-	0.0038	1.67	Normal up vs > 5 Years Off IS Tolerant
217807_PM_s_at	GLTSCR2	glioma tumor suppressor candidate region gene 2	0.0038	1.22	Normal up vs > 5 Years Off IS Tolerant
228337_PM_at	PWWP2A	PWWP domain containing 2A	0.0038	-1.60	Normal down vs > 5 Years Off IS Tolerant
34846_PM_at	CAMK2B	calcium/calmodulin-dependent protein kinase II beta	0.0038	-1.34	Normal down vs > 5 Years Off IS Tolerant
202073_PM_at	OPTN	optineurin	0.0038	2.18	Normal up vs > 5 Years Off IS Tolerant
1553118_PM_at	THEM4	thioesterase superfamily member 4	0.0038	2.32	Normal up vs > 5 Years Off IS Tolerant
225368_PM_at	HIPK2	homeodomain interacting protein kinase 2	0.0038	1.48	Normal up vs > 5 Years Off IS Tolerant
237479_PM_at	---	---	0.0038	-1.96	Normal down vs > 5 Years Off IS Tolerant
236704_PM_at	LOC100505971	hypothetical LOC100505971	0.0038	1.64	Normal up vs > 5 Years Off IS Tolerant
221700_PM_s_at	UBA52	ubiquitin A-52 residue ribosomal protein fusion product 1	0.0038	1.16	Normal up vs > 5 Years Off IS Tolerant
226822_PM_at	STOX2	storkhead box 2	0.0038	-1.39	Normal down vs > 5 Years Off IS Tolerant
204956_PM_at	MTAP	methylthioadenosine phosphorylase	0.0038	-1.41	Normal down vs > 5 Years Off IS Tolerant
228122_PM_at	CCDC66	coiled-coil domain containing 66	0.0038	1.89	Normal up vs > 5 Years Off IS Tolerant
226796_PM_at	ABHD15	abhydrolase domain containing 15	0.0038	2.03	Normal up vs > 5 Years Off IS Tolerant
202882_PM_x_at	NOL7	nucleolar protein 7, 27kDa	0.0038	1.27	Normal up vs > 5 Years Off IS Tolerant
212138_PM_at	PDS5A	PDS5, regulator of cohesion maintenance, homolog A (S. cerevisiae)	0.0038	1.31	Normal up vs > 5 Years Off IS Tolerant

214630_PM_at	CYP11B2	cytochrome P450, family 11, subfamily B, polypeptide 2	0.0038	-1.42	Normal down vs > 5 Years Off IS Tolerant
202539_PM_s_at	HMGCR	3-hydroxy-3-methylglutaryl-CoA reductase	0.0038	1.77	Normal up vs > 5 Years Off IS Tolerant
217389_PM_s_at	ATF5	activating transcription factor 5	0.0038	-1.62	Normal down vs > 5 Years Off IS Tolerant
207196_PM_s_at	TNIP1	TNFAIP3 interacting protein 1	0.0038	1.41	Normal up vs > 5 Years Off IS Tolerant
205182_PM_s_at	ZNF324	zinc finger protein 324	0.0038	1.61	Normal up vs > 5 Years Off IS Tolerant
1567167_PM_at	---	---	0.0038	-1.26	Normal down vs > 5 Years Off IS Tolerant
208826_PM_x_at	HINT1	histidine triad nucleotide binding protein 1	0.0038	1.41	Normal up vs > 5 Years Off IS Tolerant
227493_PM_s_at	KIAA1143	KIAA1143	0.0038	1.48	Normal up vs > 5 Years Off IS Tolerant
207015_PM_s_at	ALDH1A2	aldehyde dehydrogenase 1 family, member A2	0.0038	-1.32	Normal down vs > 5 Years Off IS Tolerant
238619_PM_at	---	---	0.0038	2.02	Normal up vs > 5 Years Off IS Tolerant
1554712_PM_a_at	GLYATL2	glycine-N-acyltransferase-like 2	0.0039	-1.48	Normal down vs > 5 Years Off IS Tolerant
1553849_PM_at	CCDC26	coiled-coil domain containing 26	0.0039	-1.54	Normal down vs > 5 Years Off IS Tolerant
213102_PM_at	ACTR3	ARP3 actin-related protein 3 homolog (yeast)	0.0039	-1.44	Normal down vs > 5 Years Off IS Tolerant
203136_PM_at	RABAC1	Rab acceptor 1 (prenylated)	0.0039	1.56	Normal up vs > 5 Years Off IS Tolerant
1552395_PM_at	TSSK3	testis-specific serine kinase 3	0.0039	-1.43	Normal down vs > 5 Years Off IS Tolerant
209913_PM_x_at	KIAA0415	KIAA0415	0.0039	-1.78	Normal down vs > 5 Years Off IS Tolerant
1555793_PM_a_at	ZFP82	zinc finger protein 82 homolog (mouse)	0.0039	1.53	Normal up vs > 5 Years Off IS Tolerant
1558183_PM_at	ZNF17	zinc finger protein 17	0.0039	-1.29	Normal down vs > 5 Years Off IS Tolerant
1555673_PM_at	LOC730755	keratin associated protein 2-4-like	0.0039	-1.34	Normal down vs > 5 Years Off IS Tolerant
1569764_PM_at	---	---	0.0039	-1.48	Normal down vs > 5 Years Off IS Tolerant
1552620_PM_at	SPRR4	small proline-rich protein 4	0.0039	-1.72	Normal down vs > 5 Years Off IS Tolerant
1556737_PM_at	LOC388387	hypothetical LOC388387	0.0039	-1.30	Normal down vs > 5 Years Off IS Tolerant
223431_PM_at	CNO	cappuccino homolog (mouse)	0.0039	1.70	Normal up vs > 5 Years Off IS Tolerant
201665_PM_x_at	RPS17	ribosomal protein S17	0.0039	1.20	Normal up vs > 5 Years Off IS Tolerant

204811_PM_s_at	CACNA2D2	calcium channel, voltage-dependent, alpha 2/delta subunit 2	0.0039	2.12	Normal up vs > 5 Years Off IS Tolerant
229121_PM_at	CMKLR1	chemokine-like receptor 1	0.0039	-1.79	Normal down vs > 5 Years Off IS Tolerant
200712_PM_s_at	MAPRE1	microtubule-associated protein, RP/EB family, member 1	0.0039	1.74	Normal up vs > 5 Years Off IS Tolerant
224321_PM_at	TMEFF2	transmembrane protein with EGF-like and two follistatin-like domains 2	0.0039	-3.12	Normal down vs > 5 Years Off IS Tolerant
222956_PM_at	FIGN	fidgetin	0.0039	-1.33	Normal down vs > 5 Years Off IS Tolerant
1569250_PM_at	ZNF333	zinc finger protein 333	0.0039	-1.40	Normal down vs > 5 Years Off IS Tolerant
220328_PM_at	PHC3	polyhomeotic homolog 3 (Drosophila)	0.0039	1.74	Normal up vs > 5 Years Off IS Tolerant
214975_PM_s_at	MTMR1	myotubularin related protein 1	0.0039	1.44	Normal up vs > 5 Years Off IS Tolerant
1561384_PM_a_at	LOC284661	hypothetical LOC284661	0.0039	-1.25	Normal down vs > 5 Years Off IS Tolerant
211000_PM_s_at	IL6ST	interleukin 6 signal transducer (gp130, oncostatin M receptor)	0.0039	2.10	Normal up vs > 5 Years Off IS Tolerant
241088_PM_at	---	---	0.0039	-1.30	Normal down vs > 5 Years Off IS Tolerant
203717_PM_at	DPP4	dipeptidyl-peptidase 4	0.0039	2.21	Normal up vs > 5 Years Off IS Tolerant
207893_PM_at	SRY	sex determining region Y	0.0039	-1.31	Normal down vs > 5 Years Off IS Tolerant
242512_PM_at	MYO9A	myosin IXA	0.0039	-2.16	Normal down vs > 5 Years Off IS Tolerant
218058_PM_at	CXXC1	CXXC finger protein 1	0.0039	1.55	Normal up vs > 5 Years Off IS Tolerant
206503_PM_x_at	PML	promyelocytic leukemia	0.0039	-1.46	Normal down vs > 5 Years Off IS Tolerant
210476_PM_s_at	PRLR	prolactin receptor	0.0039	-1.38	Normal down vs > 5 Years Off IS Tolerant
242419_PM_at	---	---	0.0039	-1.97	Normal down vs > 5 Years Off IS Tolerant
203812_PM_at	SLIT3	slit homolog 3 (Drosophila)	0.0039	-1.46	Normal down vs > 5 Years Off IS Tolerant
1564323_PM_at	---	---	0.0039	-1.38	Normal down vs > 5 Years Off IS Tolerant
227584_PM_at	NAV1	neuron navigator 1	0.0039	-1.47	Normal down vs > 5 Years Off IS Tolerant

1564807_PM_at	LOC100288320	Hypothetical protein LOC100288320	0.0039	-1.44	Normal down vs > 5 Years Off IS Tolerant
215222_PM_x_at	MACF1	microtubule-actin crosslinking factor 1	0.0039	1.36	Normal up vs > 5 Years Off IS Tolerant
229593_PM_at	---	---	0.0039	-1.62	Normal down vs > 5 Years Off IS Tolerant
212243_PM_at	GCOM1 /// GRINL1A	GRINL1A complex locus /// glutamate receptor, ionotropic, N-methyl D-aspartate-like 1A	0.0039	1.54	Normal up vs > 5 Years Off IS Tolerant
231672_PM_at	---	---	0.0039	-1.31	Normal down vs > 5 Years Off IS Tolerant
235081_PM_x_at	TRIM65	tripartite motif-containing 65	0.0039	-1.50	Normal down vs > 5 Years Off IS Tolerant
201853_PM_s_at	CDC25B	cell division cycle 25 homolog B (<i>S. pombe</i>)	0.0039	1.63	Normal up vs > 5 Years Off IS Tolerant
233613_PM_x_at	REXO2	REX2, RNA exonuclease 2 homolog (<i>S. cerevisiae</i>)	0.0040	1.47	Normal up vs > 5 Years Off IS Tolerant
231254_PM_at	LOC100507635	hypothetical LOC100507635	0.0040	-1.42	Normal down vs > 5 Years Off IS Tolerant
229871_PM_at	SAMD4B	Sterile alpha motif domain containing 4B	0.0040	1.82	Normal up vs > 5 Years Off IS Tolerant
38241_PM_at	BTN3A3	butyrophilin, subfamily 3, member A3	0.0040	1.79	Normal up vs > 5 Years Off IS Tolerant
221132_PM_at	CLDN18	claudin 18	0.0040	-1.29	Normal down vs > 5 Years Off IS Tolerant
1552743_PM_at	MCF2L	MCF.2 cell line derived transforming sequence-like	0.0040	-1.34	Normal down vs > 5 Years Off IS Tolerant
57532_PM_at	DVL2	dishevelled, dsh homolog 2 (<i>Drosophila</i>)	0.0040	1.52	Normal up vs > 5 Years Off IS Tolerant
204842_PM_x_at	PRKAR2A	protein kinase, cAMP-dependent, regulatory, type II, alpha	0.0040	-1.43	Normal down vs > 5 Years Off IS Tolerant
240534_PM_at	LOC100505805	hypothetical LOC100505805	0.0040	-1.26	Normal down vs > 5 Years Off IS Tolerant
244281_PM_at	REXO1	REX1, RNA exonuclease 1 homolog (<i>S. cerevisiae</i>)	0.0040	-1.34	Normal down vs > 5 Years Off IS Tolerant
224480_PM_s_at	AGPAT9	1-acylglycerol-3-phosphate O-acyltransferase 9	0.0040	-1.85	Normal down vs > 5 Years Off IS Tolerant
205426_PM_s_at	HIP1	huntingtin interacting protein 1	0.0040	-1.33	Normal down vs > 5 Years Off IS Tolerant
222735_PM_at	TMEM38B	transmembrane protein 38B	0.0040	1.60	Normal up vs > 5 Years Off IS Tolerant
236616_PM_at	---	---	0.0040	1.62	Normal up vs > 5 Years Off IS Tolerant
234193_PM_at	---	---	0.0040	-1.82	Normal down vs > 5 Years Off IS Tolerant
206927_PM_s_at	GUCY1A2	guanylate cyclase 1, soluble, alpha 2	0.0040	-1.27	Normal down vs > 5 Years Off IS Tolerant
226548_PM_at	SBK1	SH3-binding domain kinase 1	0.0040	1.81	Normal up vs > 5 Years Off IS Tolerant

204666_PM_s_at	SIKE1	suppressor of IKBKE 1	0.0040	-1.24	Normal down vs > 5 Years Off IS Tolerant
241354_PM_at	ASMTL-AS	ASMTL antisense RNA (non-protein coding)	0.0040	-1.43	Normal down vs > 5 Years Off IS Tolerant
224619_PM_at	CASC4	cancer susceptibility candidate 4	0.0040	1.35	Normal up vs > 5 Years Off IS Tolerant
243944_PM_at	---	---	0.0040	-1.36	Normal down vs > 5 Years Off IS Tolerant
200019_PM_s_at	FAU	Finkel-Biskis-Reilly murine sarcoma virus (FBR-MuSV) ubiquitously expressed	0.0040	1.19	Normal up vs > 5 Years Off IS Tolerant
203842_PM_s_at	MAPRE3	microtubule-associated protein, RP/EB family, member 3	0.0040	-1.42	Normal down vs > 5 Years Off IS Tolerant
213768_PM_s_at	ASCL1	achaete-scute complex homolog 1 (Drosophila)	0.0040	-1.21	Normal down vs > 5 Years Off IS Tolerant
219996_PM_at	ASB7	ankyrin repeat and SOCS box-containing 7	0.0040	1.44	Normal up vs > 5 Years Off IS Tolerant
1555973_PM_at	---	---	0.0040	1.37	Normal up vs > 5 Years Off IS Tolerant
213306_PM_at	MPDZ	multiple PDZ domain protein	0.0040	-3.03	Normal down vs > 5 Years Off IS Tolerant
216878_PM_x_at	HAB1	B1 for mucin	0.0040	-1.36	Normal down vs > 5 Years Off IS Tolerant
207697_PM_x_at	LILRB2	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member	0.0040	-1.54	Normal down vs > 5 Years Off IS Tolerant
240167_PM_at	LOC152742	hypothetical LOC152742	0.0040	-1.38	Normal down vs > 5 Years Off IS Tolerant
215000_PM_s_at	FEZ2	fasciculation and elongation protein zeta 2 (zygin II)	0.0040	-1.50	Normal down vs > 5 Years Off IS Tolerant
212863_PM_x_at	CTBP1	C-terminal binding protein 1	0.0040	1.21	Normal up vs > 5 Years Off IS Tolerant
234576_PM_at	ANPEP	Alanyl (membrane) aminopeptidase	0.0040	-1.33	Normal down vs > 5 Years Off IS Tolerant
222416_PM_at	ALDH18A1	aldehyde dehydrogenase 18 family, member A1	0.0040	1.82	Normal up vs > 5 Years Off IS Tolerant
224817_PM_at	SH3PXD2A	SH3 and PX domains 2A	0.0040	1.63	Normal up vs > 5 Years Off IS Tolerant
1552304_PM_at	ALG10	asparagine-linked glycosylation 10, alpha-1,2-glycosyltransferase homolog (S. pombe)	0.0040	-1.68	Normal down vs > 5 Years Off IS Tolerant
223538_PM_at	SERF1A /// SERF1B	small EDRK-rich factor 1A (telomeric) /// small EDRK-rich factor 1B (centromeric)	0.0040	1.97	Normal up vs > 5 Years Off IS Tolerant
226951_PM_at	C2orf49	chromosome 2 open reading frame 49	0.0040	1.51	Normal up vs > 5 Years Off IS Tolerant
242473_PM_at	TRAF4	TNF receptor-associated factor 4	0.0040	1.66	Normal up vs > 5 Years Off IS Tolerant
238666_PM_at	---	---	0.0040	1.81	Normal up vs > 5 Years Off IS Tolerant
211050_PM_x_at	LOC100134822 /// LOC100288069	similar to hCG1739109 /// hypothetical LOC100288069	0.0040	-1.55	Normal down vs > 5 Years Off IS Tolerant

233730_PM_at	FAM135A	family with sequence similarity 135, member A	0.0041	-1.24	Normal down vs > 5 Years Off IS Tolerant
203089_PM_s_at	HTRA2	HtrA serine peptidase 2	0.0041	1.72	Normal up vs > 5 Years Off IS Tolerant
201556_PM_s_at	VAMP2	vesicle-associated membrane protein 2 (synaptobrevin 2)	0.0041	1.47	Normal up vs > 5 Years Off IS Tolerant
205205_PM_at	RELB	v-rel reticuloendotheliosis viral oncogene homolog B	0.0041	2.19	Normal up vs > 5 Years Off IS Tolerant
237431_PM_at	LOC100506882	hypothetical LOC100506882	0.0041	-1.30	Normal down vs > 5 Years Off IS Tolerant
229181_PM_s_at	HAUS2	HAUS augmin-like complex, subunit 2	0.0041	1.51	Normal up vs > 5 Years Off IS Tolerant
218712_PM_at	C1orf109	chromosome 1 open reading frame 109	0.0041	1.46	Normal up vs > 5 Years Off IS Tolerant
204566_PM_at	PPM1D	protein phosphatase, Mg2+/Mn2+ dependent, 1D	0.0041	1.73	Normal up vs > 5 Years Off IS Tolerant
1556762_PM_a_at	---	---	0.0041	1.30	Normal up vs > 5 Years Off IS Tolerant
209953_PM_s_at	CDC37	cell division cycle 37 homolog (<i>S. cerevisiae</i>)	0.0041	1.38	Normal up vs > 5 Years Off IS Tolerant
239307_PM_at	LOC100509703	hypothetical LOC100509703	0.0041	1.63	Normal up vs > 5 Years Off IS Tolerant
201258_PM_at	RPS16	ribosomal protein S16	0.0041	1.25	Normal up vs > 5 Years Off IS Tolerant
206187_PM_at	PTGIR	prostaglandin I2 (prostacyclin) receptor (IP)	0.0041	-1.51	Normal down vs > 5 Years Off IS Tolerant
239959_PM_x_at	---	---	0.0041	-2.70	Normal down vs > 5 Years Off IS Tolerant
226196_PM_s_at	C14orf179	chromosome 14 open reading frame 179	0.0041	1.47	Normal up vs > 5 Years Off IS Tolerant
216256_PM_at	GRM8	glutamate receptor, metabotropic 8	0.0041	-1.28	Normal down vs > 5 Years Off IS Tolerant
212039_PM_x_at	RPL3	ribosomal protein L3	0.0041	1.21	Normal up vs > 5 Years Off IS Tolerant
200693_PM_at	YWHAQ	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypepti	0.0041	1.32	Normal up vs > 5 Years Off IS Tolerant
200949_PM_x_at	RPS20	ribosomal protein S20	0.0041	1.26	Normal up vs > 5 Years Off IS Tolerant
1553701_PM_a_at	DUSP18	dual specificity phosphatase 18	0.0041	-1.42	Normal down vs > 5 Years Off IS Tolerant
238142_PM_at	---	---	0.0041	1.66	Normal up vs > 5 Years Off IS Tolerant
206199_PM_at	CEACAM7	carcinoembryonic antigen-related cell adhesion molecule 7	0.0041	-1.30	Normal down vs > 5 Years Off IS Tolerant
218784_PM_s_at	C6orf64	chromosome 6 open reading frame 64	0.0041	1.50	Normal up vs > 5 Years Off IS Tolerant
1554036_PM_at	ZBTB24	zinc finger and BTB domain containing 24	0.0041	2.07	Normal up vs > 5 Years Off IS Tolerant
217540_PM_at	FAM55C	family with sequence similarity 55, member C	0.0041	1.98	Normal up vs > 5 Years Off IS Tolerant
201391_PM_at	TRAP1	TNF receptor-associated protein 1	0.0041	1.43	Normal up vs > 5 Years Off IS Tolerant
239703_PM_at	---	---	0.0041	-1.24	Normal down vs > 5 Years Off IS Tolerant
1556684_PM_at	RPPH1	ribonuclease P RNA component H1	0.0041	1.49	Normal up vs > 5 Years Off IS Tolerant
203542_PM_s_at	KLF9	Kruppel-like factor 9	0.0041	1.81	Normal up vs > 5 Years Off IS Tolerant

200963_PM_x_at	RPL31 /// RPL31P11	ribosomal protein L31 /// ribosomal protein L31 pseudogene 11	0.0041	1.13	Normal up vs > 5 Years Off IS Tolerant
212771_PM_at	FAM171A1	family with sequence similarity 171, member A1	0.0041	1.78	Normal up vs > 5 Years Off IS Tolerant
230708_PM_at	PRICKLE1	prickle homolog 1 (Drosophila)	0.0041	-1.42	Normal down vs > 5 Years Off IS Tolerant
223911_PM_at	LOC440330	hypothetical protein LOC440330	0.0041	-1.40	Normal down vs > 5 Years Off IS Tolerant
1562947_PM_x_at	---	---	0.0041	-1.28	Normal down vs > 5 Years Off IS Tolerant
1561084_PM_at	---	---	0.0041	-1.39	Normal down vs > 5 Years Off IS Tolerant
209397_PM_at	ME2	malic enzyme 2, NAD(+)-dependent, mitochondrial	0.0041	-1.48	Normal down vs > 5 Years Off IS Tolerant
225617_PM_at	ODF2	outer dense fiber of sperm tails 2	0.0041	1.46	Normal up vs > 5 Years Off IS Tolerant
233859_PM_at	C14orf145	chromosome 14 open reading frame 145	0.0041	-1.40	Normal down vs > 5 Years Off IS Tolerant
203285_PM_s_at	HS2ST1	heparan sulfate 2-O-sulfotransferase 1	0.0041	1.77	Normal up vs > 5 Years Off IS Tolerant
217208_PM_s_at	DLG1	discs, large homolog 1 (Drosophila)	0.0041	1.92	Normal up vs > 5 Years Off IS Tolerant
1553919_PM_at	C9orf62	chromosome 9 open reading frame 62	0.0041	-1.35	Normal down vs > 5 Years Off IS Tolerant
241408_PM_at	CRIPAK	cysteine-rich PAK1 inhibitor	0.0041	1.48	Normal up vs > 5 Years Off IS Tolerant
204591_PM_at	CHL1	cell adhesion molecule with homology to L1CAM (close homolog of L1)	0.0041	-1.26	Normal down vs > 5 Years Off IS Tolerant
206137_PM_at	RIMS2	regulating synaptic membrane exocytosis 2	0.0041	-1.31	Normal down vs > 5 Years Off IS Tolerant
235905_PM_at	ZNF704	zinc finger protein 704	0.0041	-1.36	Normal down vs > 5 Years Off IS Tolerant
237177_PM_at	CNTN4	contactin 4	0.0041	-1.80	Normal down vs > 5 Years Off IS Tolerant
1563081_PM_at	---	---	0.0041	-1.34	Normal down vs > 5 Years Off IS Tolerant
202059_PM_s_at	KPNA1	karyopherin alpha 1 (importin alpha 5)	0.0041	1.50	Normal up vs > 5 Years Off IS Tolerant
228225_PM_at	PEX2	peroxisomal biogenesis factor 2	0.0042	1.59	Normal up vs > 5 Years Off IS Tolerant
209519_PM_at	NCBP1	nuclear cap binding protein subunit 1, 80kDa	0.0042	1.33	Normal up vs > 5 Years Off IS Tolerant
209442_PM_x_at	ANK3	ankyrin 3, node of Ranvier (ankyrin G)	0.0042	1.67	Normal up vs > 5 Years Off IS Tolerant
200943_PM_at	HMGN1	high-mobility group nucleosome binding domain 1	0.0042	1.25	Normal up vs > 5 Years Off IS Tolerant
1554148_PM_a_at	SLC33A1	solute carrier family 33 (acetyl-CoA transporter), member 1	0.0042	-1.50	Normal down vs > 5 Years Off IS Tolerant

234839_PM_at	---	---	0.0042	-1.32	Normal down vs > 5 Years Off IS Tolerant
226647_PM_at	TMEM25	transmembrane protein 25	0.0042	1.33	Normal up vs > 5 Years Off IS Tolerant
219237_PM_s_at	DNAJB14	DnaJ (Hsp40) homolog, subfamily B, member 14	0.0042	1.33	Normal up vs > 5 Years Off IS Tolerant
214236_PM_at	LOC100286895	Similar to cell division cycle protein 27	0.0042	-1.57	Normal down vs > 5 Years Off IS Tolerant
232611_PM_at	GOLGA2B	golgin A2 family, member B	0.0042	1.38	Normal up vs > 5 Years Off IS Tolerant
205830_PM_at	CLGN	calmegin	0.0042	-2.20	Normal down vs > 5 Years Off IS Tolerant
207954_PM_at	GATA2	GATA binding protein 2	0.0042	-1.26	Normal down vs > 5 Years Off IS Tolerant
1557283_PM_a_at	ZNF519	zinc finger protein 519	0.0042	-1.70	Normal down vs > 5 Years Off IS Tolerant
223176_PM_at	KCTD20	potassium channel tetramerisation domain containing 20	0.0042	1.86	Normal up vs > 5 Years Off IS Tolerant
239052_PM_at	HNRNPD	Heterogeneous nuclear ribonucleoprotein D (AU-rich element RNA binding protein 1, 37kDa)	0.0042	-1.45	Normal down vs > 5 Years Off IS Tolerant
223761_PM_at	FGF19	fibroblast growth factor 19	0.0042	-1.25	Normal down vs > 5 Years Off IS Tolerant
212439_PM_at	IP6K1	inositol hexakisphosphate kinase 1	0.0042	1.43	Normal up vs > 5 Years Off IS Tolerant
1569476_PM_at	DKFZP434L187	hypothetical LOC26082	0.0042	-1.61	Normal down vs > 5 Years Off IS Tolerant
219577_PM_s_at	ABCA7	ATP-binding cassette, sub-family A (ABC1), member 7	0.0042	1.37	Normal up vs > 5 Years Off IS Tolerant
221135_PM_s_at	ASTE1	asteroid homolog 1 (Drosophila)	0.0042	1.66	Normal up vs > 5 Years Off IS Tolerant
228666_PM_at	C15orf38	chromosome 15 open reading frame 38	0.0042	-1.34	Normal down vs > 5 Years Off IS Tolerant
200000_PM_s_at	PRPF8	PRP8 pre-mRNA processing factor 8 homolog (S. cerevisiae)	0.0042	1.33	Normal up vs > 5 Years Off IS Tolerant
211364_PM_at	MTAP	methylthioadenosine phosphorylase	0.0042	-1.48	Normal down vs > 5 Years Off IS Tolerant
207135_PM_at	HTR2A	5-hydroxytryptamine (serotonin) receptor 2A	0.0042	-1.83	Normal down vs > 5 Years Off IS Tolerant
1556601_PM_a_at	SPATA13	Spermatogenesis associated 13	0.0042	2.04	Normal up vs > 5 Years Off IS Tolerant
203713_PM_s_at	LLGL2	lethal giant larvae homolog 2 (Drosophila)	0.0042	1.65	Normal up vs > 5 Years Off IS Tolerant
244868_PM_at	---	---	0.0042	2.01	Normal up vs > 5 Years Off IS Tolerant
58900_PM_at	UBE2D4	ubiquitin-conjugating enzyme E2D 4 (putative)	0.0042	-1.51	Normal down vs > 5 Years Off IS Tolerant
212181_PM_s_at	NUDT4 /// NUDT4P1	nudix (nucleoside diphosphate linked moiety X)-type motif 4 /// nudix (nucleoside diphosphate)	0.0042	1.29	Normal up vs > 5 Years Off IS Tolerant

203025_PM_at	NAA10	N(alpha)-acetyltransferase 10, NatA catalytic subunit	0.0042	1.46	Normal up vs > 5 Years Off IS Tolerant
1557049_PM_at	BTBD19	BTB (POZ) domain containing 19	0.0042	2.17	Normal up vs > 5 Years Off IS Tolerant
214048_PM_at	MBD4	methyl-CpG binding domain protein 4	0.0042	1.82	Normal up vs > 5 Years Off IS Tolerant
220863_PM_at	MIP	major intrinsic protein of lens fiber	0.0042	-1.26	Normal down vs > 5 Years Off IS Tolerant
227713_PM_at	KATNAL1	katanin p60 subunit A-like 1	0.0042	1.43	Normal up vs > 5 Years Off IS Tolerant
201082_PM_s_at	DCTN1	dynactin 1	0.0042	-1.44	Normal down vs > 5 Years Off IS Tolerant
236076_PM_at	LOC257396	hypothetical LOC257396	0.0042	-1.26	Normal down vs > 5 Years Off IS Tolerant
200987_PM_x_at	PSME3	proteasome (prosome, macropain) activator subunit 3 (PA28 gamma; Ki)	0.0042	-1.50	Normal down vs > 5 Years Off IS Tolerant
208260_PM_at	AVPR1B	arginine vasopressin receptor 1B	0.0043	-1.56	Normal down vs > 5 Years Off IS Tolerant
210087_PM_s_at	MPZL1	myelin protein zero-like 1	0.0043	-1.42	Normal down vs > 5 Years Off IS Tolerant
227141_PM_at	TYW3	tRNA-yW synthesizing protein 3 homolog (<i>S. cerevisiae</i>)	0.0043	1.59	Normal up vs > 5 Years Off IS Tolerant
1552396_PM_at	WFDC6	WAP four-disulfide core domain 6	0.0043	-1.25	Normal down vs > 5 Years Off IS Tolerant
228589_PM_at	---	---	0.0043	-1.41	Normal down vs > 5 Years Off IS Tolerant
1555579_PM_s_at	PTPRM	protein tyrosine phosphatase, receptor type, M	0.0043	2.13	Normal up vs > 5 Years Off IS Tolerant
238241_PM_at	---	---	0.0043	-1.50	Normal down vs > 5 Years Off IS Tolerant
221587_PM_s_at	C19orf24	chromosome 19 open reading frame 24	0.0043	1.45	Normal up vs > 5 Years Off IS Tolerant
234486_PM_at	OR51B2	olfactory receptor, family 51, subfamily B, member 2	0.0043	-1.65	Normal down vs > 5 Years Off IS Tolerant
233896_PM_s_at	PAPLN	papilin, proteoglycan-like sulfated glycoprotein	0.0043	-1.29	Normal down vs > 5 Years Off IS Tolerant
230644_PM_at	LRFN5	leucine rich repeat and fibronectin type III domain containing 5	0.0043	-2.00	Normal down vs > 5 Years Off IS Tolerant
238985_PM_at	---	---	0.0043	-1.72	Normal down vs > 5 Years Off IS Tolerant
1566548_PM_at	---	---	0.0043	-1.44	Normal down vs > 5 Years Off IS Tolerant
226566_PM_at	TRIM11	tripartite motif-containing 11	0.0043	1.41	Normal up vs > 5 Years Off IS Tolerant
37793_PM_r_at	RAD51L3	RAD51-like 3 (<i>S. cerevisiae</i>)	0.0043	-1.60	Normal down vs > 5 Years Off IS Tolerant

227435_PM_at	KIAA2018	KIAA2018	0.0043	1.24	Normal up vs > 5 Years Off IS Tolerant
221184_PM_at	---	---	0.0043	-1.48	Normal down vs > 5 Years Off IS Tolerant
220107_PM_s_at	FAM164C	family with sequence similarity 164, member C	0.0043	-1.21	Normal down vs > 5 Years Off IS Tolerant
204433_PM_s_at	SPATA2	spermatogenesis associated 2	0.0043	1.57	Normal up vs > 5 Years Off IS Tolerant
1556472_PM_s_at	SCML4	sex comb on midleg-like 4 (Drosophila)	0.0043	1.79	Normal up vs > 5 Years Off IS Tolerant
229204_PM_at	---	---	0.0043	1.93	Normal up vs > 5 Years Off IS Tolerant
203458_PM_at	SPR	sepiapterin reductase (7,8-dihydrobiopterin:NADP+ oxidoreductase)	0.0043	-1.42	Normal down vs > 5 Years Off IS Tolerant
1556325_PM_at	FILIP1	filamin A interacting protein 1	0.0043	-1.27	Normal down vs > 5 Years Off IS Tolerant
217539_PM_at	C18orf25	chromosome 18 open reading frame 25	0.0043	-1.41	Normal down vs > 5 Years Off IS Tolerant
39891_PM_at	ZNF710	zinc finger protein 710	0.0043	-1.46	Normal down vs > 5 Years Off IS Tolerant
228501_PM_at	GALNTL2	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase-like 2	0.0043	-1.38	Normal down vs > 5 Years Off IS Tolerant
205863_PM_at	S100A12	S100 calcium binding protein A12	0.0043	-1.79	Normal down vs > 5 Years Off IS Tolerant
243878_PM_at	---	---	0.0043	1.89	Normal up vs > 5 Years Off IS Tolerant
208814_PM_at	HSPA4	heat shock 70kDa protein 4	0.0043	-1.73	Normal down vs > 5 Years Off IS Tolerant
227413_PM_at	UBLCP1	ubiquitin-like domain containing CTD phosphatase 1	0.0043	1.57	Normal up vs > 5 Years Off IS Tolerant
1570176_PM_at	---	---	0.0043	-1.29	Normal down vs > 5 Years Off IS Tolerant
200975_PM_at	PPT1	palmitoyl-protein thioesterase 1	0.0043	-1.40	Normal down vs > 5 Years Off IS Tolerant
236364_PM_at	---	---	0.0043	-1.60	Normal down vs > 5 Years Off IS Tolerant
205193_PM_at	MAFF	v-maf musculoaponeurotic fibrosarcoma oncogene homolog F (avian)	0.0043	4.82	Normal up vs > 5 Years Off IS Tolerant
1570398_PM_at	STBD1	Starch binding domain 1	0.0043	-1.22	Normal down vs > 5 Years Off IS Tolerant
223774_PM_at	SNHG12	small nucleolar RNA host gene 12 (non-protein coding)	0.0043	1.52	Normal up vs > 5 Years Off IS Tolerant
221199_PM_at	GFRA4	GDNF family receptor alpha 4	0.0043	-1.42	Normal down vs > 5 Years Off IS Tolerant

206826_PM_at	PMP2	peripheral myelin protein 2	0.0043	-1.41	Normal down vs > 5 Years Off IS Tolerant
227748_PM_at	RBMXL1	RNA binding motif protein, X-linked-like 1	0.0043	1.73	Normal up vs > 5 Years Off IS Tolerant
238911_PM_at	STARD10	StAR-related lipid transfer (START) domain containing 10	0.0043	1.38	Normal up vs > 5 Years Off IS Tolerant
244536_PM_at	---	---	0.0043	1.88	Normal up vs > 5 Years Off IS Tolerant
223505_PM_s_at	DNAJC27	DnaJ (Hsp40) homolog, subfamily C, member 27	0.0043	1.42	Normal up vs > 5 Years Off IS Tolerant
1569490_PM_at	FNDC3B	fibronectin type III domain containing 3B	0.0043	-1.35	Normal down vs > 5 Years Off IS Tolerant
227861_PM_at	TMEM161B	transmembrane protein 161B	0.0043	1.45	Normal up vs > 5 Years Off IS Tolerant
229702_PM_at	CSNK1G3	casein kinase 1, gamma 3	0.0043	-1.32	Normal down vs > 5 Years Off IS Tolerant
1565576_PM_at	---	---	0.0044	-1.41	Normal down vs > 5 Years Off IS Tolerant
224581_PM_s_at	NUCKS1	nuclear casein kinase and cyclin-dependent kinase substrate 1	0.0044	1.38	Normal up vs > 5 Years Off IS Tolerant
201148_PM_s_at	TIMP3	TIMP metalloproteinase inhibitor 3	0.0044	-1.45	Normal down vs > 5 Years Off IS Tolerant
32259_PM_at	EZH1	enhancer of zeste homolog 1 (Drosophila)	0.0044	1.36	Normal up vs > 5 Years Off IS Tolerant
1553335_PM_x_at	LOC285696	hypothetical LOC285696	0.0044	-1.54	Normal down vs > 5 Years Off IS Tolerant
244495_PM_x_at	C18orf45	chromosome 18 open reading frame 45	0.0044	-1.98	Normal down vs > 5 Years Off IS Tolerant
201112_PM_s_at	CSE1L	CSE1 chromosome segregation 1-like (yeast)	0.0044	1.53	Normal up vs > 5 Years Off IS Tolerant
224590_PM_at	XIST	X (inactive)-specific transcript (non-protein coding)	0.0044	22.26	Normal up vs > 5 Years Off IS Tolerant
200092_PM_s_at	RPL37	ribosomal protein L37	0.0044	1.11	Normal up vs > 5 Years Off IS Tolerant
234414_PM_at	FAM22F /// FAM22G	family with sequence similarity 22, member F /// family with sequence similarity 22, me	0.0044	-1.69	Normal down vs > 5 Years Off IS Tolerant
217934_PM_x_at	STUB1	STIP1 homology and U-box containing protein 1, E3 ubiquitin protein ligase	0.0044	1.33	Normal up vs > 5 Years Off IS Tolerant
225071_PM_at	NUS1	nuclear undecaprenyl pyrophosphate synthase 1 homolog (S. cerevisiae)	0.0044	1.56	Normal up vs > 5 Years Off IS Tolerant
222770_PM_s_at	GUF1	GUF1 GTPase homolog (S. cerevisiae)	0.0044	1.66	Normal up vs > 5 Years Off IS Tolerant
210452_PM_x_at	CYP4F2	cytochrome P450, family 4, subfamily F, polypeptide 2	0.0044	-1.30	Normal down vs > 5 Years Off IS Tolerant
213484_PM_at	---	---	0.0044	1.35	Normal up vs > 5 Years Off IS Tolerant
200066_PM_at	IK	IK cytokine, down-regulator of HLA II	0.0044	1.16	Normal up vs > 5 Years Off IS Tolerant
237414_PM_at	F7	coagulation factor VII (serum prothrombin conversion accelerator)	0.0044	-1.35	Normal down vs > 5 Years Off IS Tolerant

1554110_PM_at	CDCP1	CUB domain containing protein 1	0.0044	-1.40	Normal down vs > 5 Years Off IS Tolerant
228151_PM_at	---	---	0.0044	1.50	Normal up vs > 5 Years Off IS Tolerant
209729_PM_at	GAS2L1	growth arrest-specific 2 like 1	0.0044	1.73	Normal up vs > 5 Years Off IS Tolerant
222263_PM_at	SLC35E1	solute carrier family 35, member E1	0.0044	1.96	Normal up vs > 5 Years Off IS Tolerant
229992_PM_at	LOC149837	hypothetical LOC149837	0.0044	-1.40	Normal down vs > 5 Years Off IS Tolerant
205435_PM_s_at	AAK1	AP2 associated kinase 1	0.0044	1.61	Normal up vs > 5 Years Off IS Tolerant
202920_PM_at	ANK2	ankyrin 2, neuronal	0.0044	-1.42	Normal down vs > 5 Years Off IS Tolerant
1555049_PM_at	C21orf29	chromosome 21 open reading frame 29	0.0044	-1.27	Normal down vs > 5 Years Off IS Tolerant
209056_PM_s_at	CDC5L	CDC5 cell division cycle 5-like (S. pombe)	0.0044	1.50	Normal up vs > 5 Years Off IS Tolerant
233987_PM_at	TFAP2D	transcription factor AP-2 delta (activating enhancer binding protein 2 delta)	0.0044	-1.26	Normal down vs > 5 Years Off IS Tolerant
219853_PM_at	FKRP	fukutin related protein	0.0044	1.52	Normal up vs > 5 Years Off IS Tolerant
223712_PM_at	PCBD2	pterin-4 alpha-carbinolamine dehydratase/dimerization cofactor of hepatocyte nuclear fa	0.0044	1.50	Normal up vs > 5 Years Off IS Tolerant
235518_PM_at	SLC8A1	solute carrier family 8 (sodium/calcium exchanger), member 1	0.0044	-1.75	Normal down vs > 5 Years Off IS Tolerant
1564211_PM_at	C14orf64	chromosome 14 open reading frame 64	0.0044	1.52	Normal up vs > 5 Years Off IS Tolerant
1569755_PM_at	NCRNA00276	non-protein coding RNA 276	0.0044	-1.50	Normal down vs > 5 Years Off IS Tolerant
1566691_PM_at	---	---	0.0044	-1.29	Normal down vs > 5 Years Off IS Tolerant
204109_PM_s_at	NFYA	nuclear transcription factor Y, alpha	0.0044	2.03	Normal up vs > 5 Years Off IS Tolerant
232811_PM_x_at	PRICKLE1	Prickle homolog 1 (Drosophila)	0.0044	-2.59	Normal down vs > 5 Years Off IS Tolerant
218280_PM_x_at	HIST2H2AA3 /// HIST2H2AA4	histone cluster 2, H2aa3 /// histone cluster 2, H2aa4	0.0044	1.60	Normal up vs > 5 Years Off IS Tolerant
243780_PM_at	---	---	0.0044	2.53	Normal up vs > 5 Years Off IS Tolerant
1570146_PM_at	---	---	0.0044	-1.27	Normal down vs > 5 Years Off IS Tolerant
225256_PM_at	---	---	0.0044	1.79	Normal up vs > 5 Years Off IS Tolerant
240989_PM_at	---	---	0.0044	-2.14	Normal down vs > 5 Years Off IS Tolerant
1566778_PM_at	---	---	0.0044	-1.30	Normal down vs > 5 Years Off IS Tolerant

1564744_PM_at	---	---	0.0044	-1.43	Normal down vs > 5 Years Off IS Tolerant
226620_PM_x_at	DAZAP1	DAZ associated protein 1	0.0044	1.24	Normal up vs > 5 Years Off IS Tolerant
209048_PM_s_at	ZMYND8	zinc finger, MYND-type containing 8	0.0044	1.47	Normal up vs > 5 Years Off IS Tolerant
1554355_PM_a_at	SIAE	sialic acid acetyltransferase	0.0044	-1.66	Normal down vs > 5 Years Off IS Tolerant
218472_PM_s_at	PELO	pelota homolog (Drosophila)	0.0045	1.75	Normal up vs > 5 Years Off IS Tolerant
218865_PM_at	MOSC1	MOCO sulphurase C-terminal domain containing 1	0.0045	-2.05	Normal down vs > 5 Years Off IS Tolerant
206299_PM_at	FAM155B	family with sequence similarity 155, member B	0.0045	-1.39	Normal down vs > 5 Years Off IS Tolerant
241601_PM_at	WIPF3	WAS/WASL interacting protein family, member 3	0.0045	-1.40	Normal down vs > 5 Years Off IS Tolerant
233306_PM_at	---	---	0.0045	-1.42	Normal down vs > 5 Years Off IS Tolerant
238380_PM_s_at	LOC100290278	Similar to homer homolog 2	0.0045	-1.64	Normal down vs > 5 Years Off IS Tolerant
235608_PM_at	---	---	0.0045	1.42	Normal up vs > 5 Years Off IS Tolerant
223369_PM_at	METTL11A	methyltransferase like 11A	0.0045	1.71	Normal up vs > 5 Years Off IS Tolerant
217276_PM_x_at	SERHL2	serine hydrolase-like 2	0.0045	-1.27	Normal down vs > 5 Years Off IS Tolerant
219133_PM_at	OXSM	3-oxoacyl-ACP synthase, mitochondrial	0.0045	1.59	Normal up vs > 5 Years Off IS Tolerant
1554850_PM_at	VWA5B2	von Willebrand factor A domain containing 5B2	0.0045	-1.32	Normal down vs > 5 Years Off IS Tolerant
204685_PM_s_at	ATP2B2	ATPase, Ca ⁺⁺ transporting, plasma membrane 2	0.0045	-1.36	Normal down vs > 5 Years Off IS Tolerant
1569690_PM_at	CCDC36	coiled-coil domain containing 36	0.0045	-1.42	Normal down vs > 5 Years Off IS Tolerant
1564674_PM_a_at	CDC20B	cell division cycle 20 homolog B (<i>S. cerevisiae</i>)	0.0045	-1.26	Normal down vs > 5 Years Off IS Tolerant
231291_PM_at	---	---	0.0045	1.40	Normal up vs > 5 Years Off IS Tolerant
207256_PM_at	MBL2	mannose-binding lectin (protein C) 2, soluble (opsonic defect)	0.0045	-1.47	Normal down vs > 5 Years Off IS Tolerant
1566177_PM_at	---	---	0.0045	-1.49	Normal down vs > 5 Years Off IS Tolerant
215908_PM_at	---	---	0.0045	1.52	Normal up vs > 5 Years Off IS Tolerant
233311_PM_at	LOC145845	hypothetical LOC145845	0.0045	-2.06	Normal down vs > 5 Years Off IS Tolerant

231474_PM_at	C6orf221	chromosome 6 open reading frame 221	0.0045	-1.29	Normal down vs > 5 Years Off IS Tolerant
232508_PM_at	ZMIZ1	zinc finger, MIZ-type containing 1	0.0045	-1.46	Normal down vs > 5 Years Off IS Tolerant
210201_PM_x_at	BIN1	bridging integrator 1	0.0045	1.69	Normal up vs > 5 Years Off IS Tolerant
202839_PM_s_at	NDUFB7	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 7, 18kDa	0.0045	1.51	Normal up vs > 5 Years Off IS Tolerant
228890_PM_at	ATOH8	atonal homolog 8 (Drosophila)	0.0045	-1.27	Normal down vs > 5 Years Off IS Tolerant
208794_PM_s_at	SMARCA4	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a	0.0045	1.26	Normal up vs > 5 Years Off IS Tolerant
219089_PM_s_at	ZNF576	zinc finger protein 576	0.0045	-1.48	Normal down vs > 5 Years Off IS Tolerant
214146_PM_s_at	PPBP	pro-platelet basic protein (chemokine (C-X-C motif) ligand 7)	0.0045	1.90	Normal up vs > 5 Years Off IS Tolerant
234551_PM_at	OTOP2	otopetrin 2	0.0045	-1.28	Normal down vs > 5 Years Off IS Tolerant
228622_PM_s_at	DNAJC4	DnaJ (Hsp40) homolog, subfamily C, member 4	0.0045	1.35	Normal up vs > 5 Years Off IS Tolerant
231332_PM_at	---	---	0.0045	1.71	Normal up vs > 5 Years Off IS Tolerant
229781_PM_at	LOC100506725	hypothetical LOC100506725	0.0045	-1.32	Normal down vs > 5 Years Off IS Tolerant
229335_PM_at	CADM4	cell adhesion molecule 4	0.0045	-1.24	Normal down vs > 5 Years Off IS Tolerant
241258_PM_at	---	---	0.0045	-1.24	Normal down vs > 5 Years Off IS Tolerant
1564083_PM_at	---	---	0.0045	-1.54	Normal down vs > 5 Years Off IS Tolerant
1553998_PM_at	DMRTC1 /// DMRTC1B	DMRT-like family C1 /// DMRT-like family C1B	0.0045	1.47	Normal up vs > 5 Years Off IS Tolerant
1557196_PM_a_at	---	---	0.0045	-1.42	Normal down vs > 5 Years Off IS Tolerant
41469_PM_at	PI3	peptidase inhibitor 3, skin-derived	0.0045	-1.22	Normal down vs > 5 Years Off IS Tolerant
38269_PM_at	PRKD2	protein kinase D2	0.0045	1.37	Normal up vs > 5 Years Off IS Tolerant
220705_PM_s_at	ADAMTS7	ADAM metallopeptidase with thrombospondin type 1 motif, 7	0.0045	-1.34	Normal down vs > 5 Years Off IS Tolerant
231729_PM_s_at	CAPS	calcyphosine	0.0045	1.35	Normal up vs > 5 Years Off IS Tolerant
216969_PM_s_at	KIF22	kinesin family member 22	0.0045	1.33	Normal up vs > 5 Years Off IS Tolerant

241579_PM_at	---	---	0.0045	-1.81	Normal down vs > 5 Years Off IS Tolerant
233207_PM_at	DISC1	disrupted in schizophrenia 1	0.0045	-1.54	Normal down vs > 5 Years Off IS Tolerant
235155_PM_at	BDH2	3-hydroxybutyrate dehydrogenase, type 2	0.0045	-1.50	Normal down vs > 5 Years Off IS Tolerant
232826_PM_at	---	---	0.0045	1.43	Normal up vs > 5 Years Off IS Tolerant
1560013_PM_at	PDXDC1	pyridoxal-dependent decarboxylase domain containing 1	0.0045	2.13	Normal up vs > 5 Years Off IS Tolerant
204635_PM_at	RPS6KA5	ribosomal protein S6 kinase, 90kDa, polypeptide 5	0.0045	1.44	Normal up vs > 5 Years Off IS Tolerant
218818_PM_at	FHL3	four and a half LIM domains 3	0.0046	-1.45	Normal down vs > 5 Years Off IS Tolerant
229423_PM_at	---	---	0.0046	1.48	Normal up vs > 5 Years Off IS Tolerant
212627_PM_s_at	EXOSC7	exosome component 7	0.0046	1.44	Normal up vs > 5 Years Off IS Tolerant
226326_PM_at	PCGF5	polycomb group ring finger 5	0.0046	1.44	Normal up vs > 5 Years Off IS Tolerant
59625_PM_at	NOL3	nucleolar protein 3 (apoptosis repressor with CARD domain)	0.0046	-1.34	Normal down vs > 5 Years Off IS Tolerant
237673_PM_at	---	---	0.0046	-1.23	Normal down vs > 5 Years Off IS Tolerant
241821_PM_at	---	---	0.0046	-1.49	Normal down vs > 5 Years Off IS Tolerant
228466_PM_at	GABPB2	GA binding protein transcription factor, beta subunit 2	0.0046	1.51	Normal up vs > 5 Years Off IS Tolerant
218217_PM_at	SCPEP1	serine carboxypeptidase 1	0.0046	-1.45	Normal down vs > 5 Years Off IS Tolerant
206164_PM_at	CLCA2	chloride channel accessory 2	0.0046	-1.40	Normal down vs > 5 Years Off IS Tolerant
225030_PM_at	BOD1	biorientation of chromosomes in cell division 1	0.0046	1.51	Normal up vs > 5 Years Off IS Tolerant
238255_PM_at	---	---	0.0046	-1.34	Normal down vs > 5 Years Off IS Tolerant
212925_PM_at	C19orf21	chromosome 19 open reading frame 21	0.0046	-1.33	Normal down vs > 5 Years Off IS Tolerant
208667_PM_s_at	ST13	suppression of tumorigenicity 13 (colon carcinoma) (Hsp70 interacting protein)	0.0046	1.63	Normal up vs > 5 Years Off IS Tolerant
225448_PM_at	NAPG	N-ethylmaleimide-sensitive factor attachment protein, gamma	0.0046	1.86	Normal up vs > 5 Years Off IS Tolerant
221425_PM_s_at	ISCA1	iron-sulfur cluster assembly 1 homolog (S. cerevisiae)	0.0046	2.06	Normal up vs > 5 Years Off IS Tolerant
234323_PM_at	THSD4	Thrombospondin, type I, domain containing 4	0.0046	-1.29	Normal down vs > 5 Years Off IS Tolerant

1554264_PM_at	CKAP2	cytoskeleton associated protein 2	0.0046	1.60	Normal up vs > 5 Years Off IS Tolerant
206342_PM_x_at	IDS	iduronate 2-sulfatase	0.0046	1.63	Normal up vs > 5 Years Off IS Tolerant
238213_PM_at	---	---	0.0046	-1.33	Normal down vs > 5 Years Off IS Tolerant
218368_PM_s_at	TNFRSF12A	tumor necrosis factor receptor superfamily, member 12A	0.0046	-1.80	Normal down vs > 5 Years Off IS Tolerant
236198_PM_at	---	---	0.0046	1.91	Normal up vs > 5 Years Off IS Tolerant
200098_PM_s_at	ANAPC5	anaphase promoting complex subunit 5	0.0046	1.20	Normal up vs > 5 Years Off IS Tolerant
232966_PM_at	LPIN3	lipin 3	0.0046	-1.33	Normal down vs > 5 Years Off IS Tolerant
232577_PM_at	LOC145945	hypothetical protein LOC145945	0.0046	-1.52	Normal down vs > 5 Years Off IS Tolerant
219946_PM_x_at	MYH14	myosin, heavy chain 14, non-muscle	0.0046	-1.47	Normal down vs > 5 Years Off IS Tolerant
203396_PM_at	PSMA4	proteasome (prosome, macropain) subunit, alpha type, 4	0.0046	-1.27	Normal down vs > 5 Years Off IS Tolerant
226513_PM_at	ASB7	ankyrin repeat and SOCS box-containing 7	0.0046	1.94	Normal up vs > 5 Years Off IS Tolerant
235980_PM_at	PIK3CA	phosphoinositide-3-kinase, catalytic, alpha polypeptide	0.0046	1.44	Normal up vs > 5 Years Off IS Tolerant
226540_PM_at	CCDC42B	coiled-coil domain containing 42B	0.0046	-1.62	Normal down vs > 5 Years Off IS Tolerant
201217_PM_x_at	RPL3	ribosomal protein L3	0.0046	1.21	Normal up vs > 5 Years Off IS Tolerant
225463_PM_x_at	GPR89A /// GPR89B /// GPR89C	G protein-coupled receptor 89A /// G protein-coupled receptor 89B /// G protein-coupled	0.0046	1.40	Normal up vs > 5 Years Off IS Tolerant
201451_PM_x_at	RHEB	Ras homolog enriched in brain	0.0046	-1.37	Normal down vs > 5 Years Off IS Tolerant
235646_PM_at	---	---	0.0046	1.51	Normal up vs > 5 Years Off IS Tolerant
1560402_PM_at	GAS5	growth arrest-specific 5 (non-protein coding)	0.0046	1.28	Normal up vs > 5 Years Off IS Tolerant
226983_PM_at	ZNF777	zinc finger protein 777	0.0046	1.33	Normal up vs > 5 Years Off IS Tolerant
160020_PM_at	MMP14	matrix metalloproteinase 14 (membrane-inserted)	0.0046	-1.50	Normal down vs > 5 Years Off IS Tolerant
200705_PM_s_at	EEF1B2	eukaryotic translation elongation factor 1 beta 2	0.0046	1.33	Normal up vs > 5 Years Off IS Tolerant
203565_PM_s_at	MNAT1	menage a trois homolog 1, cyclin H assembly factor (Xenopus laevis)	0.0046	1.45	Normal up vs > 5 Years Off IS Tolerant
1569554_PM_at	ESR2	Estrogen receptor 2 (ER beta)	0.0046	-1.53	Normal down vs > 5 Years Off IS Tolerant
218093_PM_s_at	ANKRD10	ankyrin repeat domain 10	0.0046	1.33	Normal up vs > 5 Years Off IS Tolerant

230895_PM_at	HAPLN1	hyaluronan and proteoglycan link protein 1	0.0046	-1.41	Normal down vs > 5 Years Off IS Tolerant
211087_PM_x_at	MAPK14	mitogen-activated protein kinase 14	0.0046	-1.52	Normal down vs > 5 Years Off IS Tolerant
1556058_PM_s_at	SPEN	spen homolog, transcriptional regulator (Drosophila)	0.0046	1.36	Normal up vs > 5 Years Off IS Tolerant
214702_PM_at	FN1	fibronectin 1	0.0047	-1.50	Normal down vs > 5 Years Off IS Tolerant
206101_PM_at	ECM2	extracellular matrix protein 2, female organ and adipocyte specific	0.0047	-1.40	Normal down vs > 5 Years Off IS Tolerant
228551_PM_at	DENND5B	DENN/MADD domain containing 5B	0.0047	1.68	Normal up vs > 5 Years Off IS Tolerant
233538_PM_s_at	CYBB	Cytochrome b-245, beta polypeptide	0.0047	-1.32	Normal down vs > 5 Years Off IS Tolerant
1558019_PM_at	---	---	0.0047	-1.38	Normal down vs > 5 Years Off IS Tolerant
205868_PM_s_at	PTPN11	protein tyrosine phosphatase, non-receptor type 11	0.0047	-1.46	Normal down vs > 5 Years Off IS Tolerant
1552490_PM_at	LACE1	lactation elevated 1	0.0047	-2.03	Normal down vs > 5 Years Off IS Tolerant
218760_PM_at	COQ6	coenzyme Q6 homolog, monooxygenase (S. cerevisiae)	0.0047	1.36	Normal up vs > 5 Years Off IS Tolerant
224288_PM_x_at	FKSG49	FKSG49	0.0047	-2.05	Normal down vs > 5 Years Off IS Tolerant
239435_PM_x_at	SHROOM1	shroom family member 1	0.0047	-1.82	Normal down vs > 5 Years Off IS Tolerant
220140_PM_s_at	SNX11	sorting nexin 11	0.0047	-1.60	Normal down vs > 5 Years Off IS Tolerant
201478_PM_s_at	DKC1	dyskeratosis congenita 1, dyskerin	0.0047	1.27	Normal up vs > 5 Years Off IS Tolerant
233997_PM_at	LOC100287166	Similar to hCG2019076	0.0047	-1.33	Normal down vs > 5 Years Off IS Tolerant
200036_PM_s_at	RPL10A	ribosomal protein L10a	0.0047	1.31	Normal up vs > 5 Years Off IS Tolerant
213934_PM_s_at	ZNF23	zinc finger protein 23 (KOX 16)	0.0047	1.66	Normal up vs > 5 Years Off IS Tolerant
243499_PM_at	---	---	0.0047	-1.32	Normal down vs > 5 Years Off IS Tolerant
239235_PM_at	---	---	0.0047	1.29	Normal up vs > 5 Years Off IS Tolerant
212945_PM_s_at	MGA	MAX gene associated	0.0047	1.81	Normal up vs > 5 Years Off IS Tolerant
212315_PM_s_at	NUP210	nucleoporin 210kDa	0.0047	1.50	Normal up vs > 5 Years Off IS Tolerant
213880_PM_at	LGR5	leucine-rich repeat-containing G protein-coupled receptor 5	0.0047	-1.67	Normal down vs > 5 Years Off IS Tolerant

244814_PM_at	UGGT1	UDP-glucose glycoprotein glucosyltransferase 1	0.0047	-1.30	Normal down vs > 5 Years Off IS Tolerant
214943_PM_s_at	ARID4B /// RBM34	AT rich interactive domain 4B (RBP1-like) /// RNA binding motif protein 34	0.0047	1.87	Normal up vs > 5 Years Off IS Tolerant
205214_PM_at	STK17B	serine/threonine kinase 17b	0.0047	1.81	Normal up vs > 5 Years Off IS Tolerant
203960_PM_s_at	HSPB11	heat shock protein family B (small), member 11	0.0047	1.81	Normal up vs > 5 Years Off IS Tolerant
203850_PM_s_at	KIF1A	kinesin family member 1A	0.0047	-1.57	Normal down vs > 5 Years Off IS Tolerant
222039_PM_at	KIF18B	kinesin family member 18B	0.0047	-1.28	Normal down vs > 5 Years Off IS Tolerant
208791_PM_at	CLU	clusterin	0.0047	2.92	Normal up vs > 5 Years Off IS Tolerant
232077_PM_s_at	YPEL3	yippee-like 3 (Drosophila)	0.0047	1.67	Normal up vs > 5 Years Off IS Tolerant
1554342_PM_s_at	HELQ	helicase, POLQ-like	0.0047	1.76	Normal up vs > 5 Years Off IS Tolerant
236966_PM_at	ARMC8	armadillo repeat containing 8	0.0047	1.58	Normal up vs > 5 Years Off IS Tolerant
218131_PM_s_at	GATAD2A	GATA zinc finger domain containing 2A	0.0047	1.36	Normal up vs > 5 Years Off IS Tolerant
1556226_PM_at	---	---	0.0047	1.51	Normal up vs > 5 Years Off IS Tolerant
226728_PM_at	SLC27A1	solute carrier family 27 (fatty acid transporter), member 1	0.0047	-1.57	Normal down vs > 5 Years Off IS Tolerant
224836_PM_at	TP53INP2	tumor protein p53 inducible nuclear protein 2	0.0047	3.28	Normal up vs > 5 Years Off IS Tolerant
213691_PM_at	LOC100506002	hypothetical protein LOC100506002	0.0047	1.43	Normal up vs > 5 Years Off IS Tolerant
213083_PM_at	SLC35D2	solute carrier family 35, member D2	0.0047	1.46	Normal up vs > 5 Years Off IS Tolerant
236024_PM_at	GPM6A	glycoprotein M6A	0.0047	-1.32	Normal down vs > 5 Years Off IS Tolerant
209123_PM_at	QDPR	quinoid dihydropteridine reductase	0.0047	1.81	Normal up vs > 5 Years Off IS Tolerant
243504_PM_at	---	---	0.0047	-1.25	Normal down vs > 5 Years Off IS Tolerant
202334_PM_s_at	UBE2B	ubiquitin-conjugating enzyme E2B (RAD6 homolog)	0.0047	1.42	Normal up vs > 5 Years Off IS Tolerant
244538_PM_at	KCTD19	potassium channel tetramerisation domain containing 19	0.0047	-1.28	Normal down vs > 5 Years Off IS Tolerant
217204_PM_at	MTRF1L	Mitochondrial translational release factor 1-like	0.0047	-1.67	Normal down vs > 5 Years Off IS Tolerant
1554980_PM_a_at	ATF3	activating transcription factor 3	0.0047	2.85	Normal up vs > 5 Years Off IS Tolerant
227033_PM_at	PDIA3	protein disulfide isomerase family A, member 3	0.0047	1.79	Normal up vs > 5 Years Off IS Tolerant
1562693_PM_at	---	---	0.0048	-1.35	Normal down vs > 5 Years Off IS Tolerant
207021_PM_at	ZPBP	zona pellucida binding protein	0.0048	-1.58	Normal down vs > 5 Years Off IS Tolerant
224588_PM_at	XIST	X (inactive)-specific transcript (non-protein coding)	0.0048	58.32	Normal up vs > 5 Years Off IS Tolerant
203240_PM_at	FCGBP	Fc fragment of IgG binding protein	0.0048	1.80	Normal up vs > 5 Years Off IS Tolerant

203710_PM_at	ITPR1	inositol 1,4,5-triphosphate receptor, type 1	0.0048	1.37	Normal up vs > 5 Years Off IS Tolerant
231357_PM_at	CLEC12B	C-type lectin domain family 12, member B	0.0048	-1.96	Normal down vs > 5 Years Off IS Tolerant
216305_PM_s_at	C2orf3	chromosome 2 open reading frame 3	0.0048	1.72	Normal up vs > 5 Years Off IS Tolerant
206568_PM_at	TNP1	transition protein 1 (during histone to protamine replacement)	0.0048	-1.28	Normal down vs > 5 Years Off IS Tolerant
203538_PM_at	CAMLG	calcium modulating ligand	0.0048	1.27	Normal up vs > 5 Years Off IS Tolerant
228011_PM_at	FAM92A1	family with sequence similarity 92, member A1	0.0048	-1.26	Normal down vs > 5 Years Off IS Tolerant
211924_PM_s_at	PLAUR	plasminogen activator, urokinase receptor	0.0048	2.74	Normal up vs > 5 Years Off IS Tolerant
210213_PM_s_at	EIF6	eukaryotic translation initiation factor 6	0.0048	1.43	Normal up vs > 5 Years Off IS Tolerant
219799_PM_s_at	DHRS9	dehydrogenase/reductase (SDR family) member 9	0.0048	-1.92	Normal down vs > 5 Years Off IS Tolerant
208815_PM_x_at	HSPA4	heat shock 70kDa protein 4	0.0048	1.41	Normal up vs > 5 Years Off IS Tolerant
218319_PM_at	PELI1	pellino homolog 1 (Drosophila)	0.0048	1.99	Normal up vs > 5 Years Off IS Tolerant
226709_PM_at	ROBO2	roundabout, axon guidance receptor, homolog 2 (Drosophila)	0.0048	-1.44	Normal down vs > 5 Years Off IS Tolerant
201110_PM_s_at	THBS1	thrombospondin 1	0.0048	6.94	Normal up vs > 5 Years Off IS Tolerant
236822_PM_at	LOC100509856	hypothetical LOC100509856	0.0048	-1.31	Normal down vs > 5 Years Off IS Tolerant
90265_PM_at	ADAP1	ArfGAP with dual PH domains 1	0.0048	-1.34	Normal down vs > 5 Years Off IS Tolerant
235082_PM_at	PCNX	pecanex homolog (Drosophila)	0.0048	1.39	Normal up vs > 5 Years Off IS Tolerant
1560116_PM_a_at	NEDD1	neural precursor cell expressed, developmentally down-regulated 1	0.0048	1.35	Normal up vs > 5 Years Off IS Tolerant
210597_PM_x_at	PRB1	proline-rich protein BstNI subfamily 1	0.0048	-1.42	Normal down vs > 5 Years Off IS Tolerant
218875_PM_s_at	FBXO5	F-box protein 5	0.0048	1.58	Normal up vs > 5 Years Off IS Tolerant
206582_PM_s_at	GPR56	G protein-coupled receptor 56	0.0048	-1.37	Normal down vs > 5 Years Off IS Tolerant
227291_PM_s_at	BOLA3	bolA homolog 3 (E. coli)	0.0048	1.63	Normal up vs > 5 Years Off IS Tolerant
242799_PM_at	---	---	0.0048	-1.33	Normal down vs > 5 Years Off IS Tolerant
210458_PM_s_at	TANK	TRAF family member-associated NFKB activator	0.0048	2.26	Normal up vs > 5 Years Off IS Tolerant
210601_PM_at	CDH6	cadherin 6, type 2, K-cadherin (fetal kidney)	0.0048	-1.64	Normal down vs > 5 Years Off IS Tolerant
229620_PM_at	---	---	0.0048	-1.34	Normal down vs > 5 Years Off IS Tolerant

238090_PM_at	HGSNAT	heparan-alpha-glucosaminide N-acetyltransferase	0.0048	-1.37	Normal down vs > 5 Years Off IS Tolerant
1553190_PM_s_at	PARD3B	par-3 partitioning defective 3 homolog B (C. elegans)	0.0048	-1.33	Normal down vs > 5 Years Off IS Tolerant
205212_PM_s_at	ACAP1	ArfGAP with coiled-coil, ankyrin repeat and PH domains 1	0.0048	1.46	Normal up vs > 5 Years Off IS Tolerant
208414_PM_s_at	HOXB3	homeobox B3	0.0048	-1.47	Normal down vs > 5 Years Off IS Tolerant
1861_PM_at	BAD	BCL2-associated agonist of cell death	0.0048	1.52	Normal up vs > 5 Years Off IS Tolerant
203773_PM_x_at	BLVRA	biliverdin reductase A	0.0048	-1.47	Normal down vs > 5 Years Off IS Tolerant
209565_PM_at	RNF113A	ring finger protein 113A	0.0048	1.60	Normal up vs > 5 Years Off IS Tolerant
216111_PM_x_at	PMS2P3	postmeiotic segregation increased 2 pseudogene 3	0.0048	1.54	Normal up vs > 5 Years Off IS Tolerant
237266_PM_at	LOC100289509	hypothetical LOC100289509	0.0048	-1.25	Normal down vs > 5 Years Off IS Tolerant
213061_PM_s_at	NTAN1	N-terminal asparagine amidase	0.0049	1.52	Normal up vs > 5 Years Off IS Tolerant
238801_PM_at	RBM33	RNA binding motif protein 33	0.0049	-1.31	Normal down vs > 5 Years Off IS Tolerant
208941_PM_s_at	SEPHS1	selenophosphate synthetase 1	0.0049	1.65	Normal up vs > 5 Years Off IS Tolerant
1559735_PM_at	---	---	0.0049	-1.30	Normal down vs > 5 Years Off IS Tolerant
1556852_PM_a_at	---	---	0.0049	-1.45	Normal down vs > 5 Years Off IS Tolerant
233642_PM_s_at	HEATR5B	HEAT repeat containing 5B	0.0049	1.41	Normal up vs > 5 Years Off IS Tolerant
221541_PM_at	CRISPLD2	cysteine-rich secretory protein LCCL domain containing 2	0.0049	-2.05	Normal down vs > 5 Years Off IS Tolerant
229349_PM_at	LIN28B	lin-28 homolog B (C. elegans)	0.0049	-1.70	Normal down vs > 5 Years Off IS Tolerant
212311_PM_at	SEL1L3	sel-1 suppressor of lin-12-like 3 (C. elegans)	0.0049	1.71	Normal up vs > 5 Years Off IS Tolerant
222173_PM_s_at	TBC1D2	TBC1 domain family, member 2	0.0049	-1.87	Normal down vs > 5 Years Off IS Tolerant
1563809_PM_a_at	MCF2L	MCF.2 cell line derived transforming sequence-like	0.0049	-1.31	Normal down vs > 5 Years Off IS Tolerant
1560142_PM_at	GRIK2	glutamate receptor, ionotropic, kainate 2	0.0049	-4.35	Normal down vs > 5 Years Off IS Tolerant
208843_PM_s_at	GORASP2	golgi reassembly stacking protein 2, 55kDa	0.0049	1.63	Normal up vs > 5 Years Off IS Tolerant
217718_PM_s_at	YWHAB	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta polypeptid	0.0049	-1.17	Normal down vs > 5 Years Off IS Tolerant

230953_PM_at	DNAJB3	DnaJ (Hsp40) homolog, subfamily B, member 3	0.0049	-1.25	Normal down vs > 5 Years Off IS Tolerant
242068_PM_at	---	---	0.0049	1.76	Normal up vs > 5 Years Off IS Tolerant
210311_PM_at	FGF5	fibroblast growth factor 5	0.0049	-1.70	Normal down vs > 5 Years Off IS Tolerant
236786_PM_at	FAM135B	family with sequence similarity 135, member B	0.0049	-1.31	Normal down vs > 5 Years Off IS Tolerant
1561268_PM_at	---	---	0.0049	-1.58	Normal down vs > 5 Years Off IS Tolerant
214263_PM_x_at	POLR2C	polymerase (RNA) II (DNA directed) polypeptide C, 33kDa	0.0049	1.28	Normal up vs > 5 Years Off IS Tolerant
1554198_PM_at	SH3YL1	SH3 domain containing, Ysc84-like 1 (<i>S. cerevisiae</i>)	0.0049	-1.35	Normal down vs > 5 Years Off IS Tolerant
222492_PM_at	PDXK	pyridoxal (pyridoxine, vitamin B6) kinase	0.0049	-1.35	Normal down vs > 5 Years Off IS Tolerant
237579_PM_at	---	---	0.0049	1.47	Normal up vs > 5 Years Off IS Tolerant
220062_PM_s_at	MAGEC2	melanoma antigen family C, 2	0.0049	-1.37	Normal down vs > 5 Years Off IS Tolerant
202587_PM_s_at	AK1	adenylate kinase 1	0.0049	1.87	Normal up vs > 5 Years Off IS Tolerant
216757_PM_at	---	---	0.0049	-1.39	Normal down vs > 5 Years Off IS Tolerant
217973_PM_at	DCXR	dicarbonyl/L-xylulose reductase	0.0049	1.55	Normal up vs > 5 Years Off IS Tolerant
201506_PM_at	TGFBI	transforming growth factor, beta-induced, 68kDa	0.0049	-1.48	Normal down vs > 5 Years Off IS Tolerant
205586_PM_x_at	VGF	VGF nerve growth factor inducible	0.0049	-1.27	Normal down vs > 5 Years Off IS Tolerant
211667_PM_x_at	---	---	0.0049	1.31	Normal up vs > 5 Years Off IS Tolerant
207900_PM_at	CCL17	chemokine (C-C motif) ligand 17	0.0049	-1.25	Normal down vs > 5 Years Off IS Tolerant
239411_PM_at	---	---	0.0049	1.51	Normal up vs > 5 Years Off IS Tolerant
209308_PM_s_at	BNIP2	BCL2/adenovirus E1B 19kDa interacting protein 2	0.0049	1.49	Normal up vs > 5 Years Off IS Tolerant
240662_PM_at	---	---	0.0049	-2.34	Normal down vs > 5 Years Off IS Tolerant
222101_PM_s_at	DCHS1	dachsous 1 (<i>Drosophila</i>)	0.0049	1.84	Normal up vs > 5 Years Off IS Tolerant
236407_PM_at	KCNE1	potassium voltage-gated channel, Isk-related family, member 1	0.0049	-1.29	Normal down vs > 5 Years Off IS Tolerant
1561668_PM_at	---	---	0.0049	-1.87	Normal down vs > 5 Years Off IS Tolerant

205058_PM_at	SLC26A1	solute carrier family 26 (sulfate transporter), member 1	0.0049	-1.32	Normal down vs > 5 Years Off IS Tolerant
236894_PM_at	L1TD1	LINE-1 type transposase domain containing 1	0.0049	-1.40	Normal down vs > 5 Years Off IS Tolerant
243954_PM_at	LOC285286	hypothetical LOC285286	0.0049	-1.69	Normal down vs > 5 Years Off IS Tolerant
201690_PM_s_at	TPD52	tumor protein D52	0.0049	1.79	Normal up vs > 5 Years Off IS Tolerant
224042_PM_at	UPB1	ureidopropionase, beta	0.0049	-1.35	Normal down vs > 5 Years Off IS Tolerant
239066_PM_at	LOC100506966	hypothetical LOC100506966	0.0049	-1.56	Normal down vs > 5 Years Off IS Tolerant
242687_PM_at	FAM160A1	family with sequence similarity 160, member A1	0.0049	-1.34	Normal down vs > 5 Years Off IS Tolerant
1559960_PM_x_at	SYCE1L	synaptonemal complex central element protein 1-like	0.0049	1.37	Normal up vs > 5 Years Off IS Tolerant
204272_PM_at	LGALS4	lectin, galactoside-binding, soluble, 4	0.0049	1.30	Normal up vs > 5 Years Off IS Tolerant
214736_PM_s_at	ADD1	adducin 1 (alpha)	0.0049	1.31	Normal up vs > 5 Years Off IS Tolerant
240885_PM_at	---	---	0.0049	-1.39	Normal down vs > 5 Years Off IS Tolerant
227456_PM_s_at	C6orf136	chromosome 6 open reading frame 136	0.0049	1.38	Normal up vs > 5 Years Off IS Tolerant
222102_PM_at	GSTA3	glutathione S-transferase alpha 3	0.0049	-1.32	Normal down vs > 5 Years Off IS Tolerant
244350_PM_at	MYO10	myosin X	0.0049	-1.35	Normal down vs > 5 Years Off IS Tolerant
236998_PM_at	CCDC56	Coiled-coil domain containing 56	0.0049	-1.32	Normal down vs > 5 Years Off IS Tolerant
213990_PM_s_at	PAK7	p21 protein (Cdc42/Rac)-activated kinase 7	0.0049	-1.30	Normal down vs > 5 Years Off IS Tolerant
204526_PM_s_at	TBC1D8	TBC1 domain family, member 8 (with GRAM domain)	0.0049	-1.70	Normal down vs > 5 Years Off IS Tolerant
225695_PM_at	C2orf18	chromosome 2 open reading frame 18	0.0050	-1.42	Normal down vs > 5 Years Off IS Tolerant
200829_PM_x_at	ZNF207	zinc finger protein 207	0.0050	1.22	Normal up vs > 5 Years Off IS Tolerant
1557673_PM_at	---	---	0.0050	-1.53	Normal down vs > 5 Years Off IS Tolerant
230787_PM_at	LOC100505481	hypothetical LOC100505481	0.0050	1.70	Normal up vs > 5 Years Off IS Tolerant
1562953_PM_s_at	NCRNA00247	non-protein coding RNA 247	0.0050	-1.28	Normal down vs > 5 Years Off IS Tolerant
242503_PM_at	CHST13	Carbohydrate (chondroitin 4) sulfotransferase 13	0.0050	-1.31	Normal down vs > 5 Years Off IS Tolerant

243058_PM_at	---	---	0.0050	-1.36	Normal down vs > 5 Years Off IS Tolerant
226818_PM_at	MPEG1	Macrophage expressed 1	0.0050	-1.41	Normal down vs > 5 Years Off IS Tolerant
235938_PM_at	---	---	0.0050	-1.26	Normal down vs > 5 Years Off IS Tolerant
1560934_PM_at	LOC284669	hypothetical protein LOC284669	0.0050	-1.30	Normal down vs > 5 Years Off IS Tolerant
228049_PM_x_at	LOC100507303	hypothetical LOC100507303	0.0050	1.94	Normal up vs > 5 Years Off IS Tolerant
218441_PM_s_at	RPAP1	RNA polymerase II associated protein 1	0.0050	1.39	Normal up vs > 5 Years Off IS Tolerant
1557818_PM_x_at	LOC100131941	Hypothetical LOC100131941	0.0050	-1.68	Normal down vs > 5 Years Off IS Tolerant
223644_PM_s_at	CRYGS	crystallin, gamma S	0.0050	1.65	Normal up vs > 5 Years Off IS Tolerant

Supplementary Table S7: Canonical pathways for the 4529 genes unique to the Tol group compared to the non-Tol group at Years 5 + 6

Canonical Pathways	(B-H p-value)	Ratio	Downregulated	No change	Upregulated	Molecules
Glucocorticoid Receptor Signaling	4.7863E-06	2.84E-01	57/250 (23%)	0/250 (0%)	14/250 (6%)	POU2F1,KAT2B,HSPA1L,NFATC2,JAK3,PIK3R5,SMARCA4,PRKACB,NFKBIA,POLR2K,MED14,SMAD3,TGFBR1,POLR2I,MAPK9,TRAF6,ERCC3,NCOA1,CCL5,IL1B,SMAD2,MED1,MAPK12,JAK1,PIK3C2B,POLR2C,TAT,TAF7,TGFBR2,PPP3R1,POLR2D,CD163,CXCL3,STAT5B,GTF2H1,IKBKE,JUN,MAPK14,AKT3,GTF2H3,TAF4B,SMARCA2,TAF3,TAF9B,HSPA14,PPP3CC,NCOA3,VCAM1,TSC22D3,PIK3CA,TNF,STAT1,GRB2,CREBBP,NCOR1,HSP90AA1,NPPA,NFATC4,CDK7,RRAS2,ATM,MNAT1,MAP3K14,AKT2,NFATC3,HSPA4,BCL2,TAF10,HSP90AB1,CD247,ICAM1
CD28 Signaling in T Helper Cells	0.00066069	3.15E-01	29/111 (26%)	0/111 (0%)	6/111 (5%)	JUN,ITPR2,AKT3,ACTR2,NFATC2,PIK3R5,ARPC5L,NFKBIA,PPP3CC,MALT1,CARD11,FYN,PIK3CA,BCL10,PTPN11,LCK,ITK,GRB2,CD80,ITPR1,LAT,MAPK9,ZAP70,NFATC4,ATM,MAPK12,PIK3C2B,ACTR3,AKT2,NFATC3,PPP3R1,ITPR3,PLCG1,CD247,IKBKE
p53 Signaling	0.00066069	3.3E-01	24/94 (26%)	0/94 (0%)	7/94 (7%)	JUN,KAT2B,MAPK14,PML,AKT3,APAF1,CCNG1,PIK3R5,GADD45B,THBS1,GNL3,PIK3CA,ATR,PIDD1,MDM4,CCND2,ATM,MED1,BIRC5,CDK2,PIK3C2B,ST13,AKT2,BAI1,CNK, BCL2,PPP1R13B,MDM2,FAS,HIPK2,CHEK1
EIF2 Signaling	0.00125893	2.72E-01	42/169 (25%)	0/169 (0%)	4/169 (2%)	RPS27L,UBA52,AKT3,RPS10,RPL32,PIK3R5,RPL35A,EIF3B,RPS5,RPS20,PIK3CA,RPL21,RPL37,RPS11,GRB2,RPL31,RPL3,AGO2,RPL14,RPL30,RPS25,EIF1AX,RRAS2,RPS18,ATM,INSR,PIK3C2B,RPS2,FAU,RPL13,AKT2,RPS19,AGO4,RPS16,EIF2S3,RPL24,RPL18,RPS17,EIF2A,RPL36,PAIP1,RPL34,RPL15,EIF2AK3,RPS15,RPL10A
Regulation of IL-2 Expression	0.0060256	3.21E-01	21/78 (27%)	0/78 (0%)	4/78 (5%)	JUN,NFATC2,NFKBIA,PPP3CC,MALT1,CARD11,FYN,BCL10,SMAD3,GRB2,CD80,TGFBR1,LAT,MAPK9,ZAP70,NFATC4,RRAS2,SMAD2,MAPK12,NFATC3,TGFBR2,PPP3R1,PLCG1,CD247,IKBKE
Inhibition of Angiogenesis by TSP1	0.00724436	4.24E-01	8/33 (24%)	0/33 (0%)	6/33 (18%)	JUN,MAPK14,AKT3,GUCY1A2,MAPK12,GUCY1A3,THBS1,AKT2,SDC1,CD36,TGFBR2,FYN,TGFBR1,MAPK9
iCOS-iCOSL Signaling in T Helper Cells	0.01023293	2.84E-01	26/102 (25%)	0/102 (0%)	3/102 (3%)	CAMK2B,ITPR2,AKT3,NFATC2,PIK3R5,IL2RB,NFKBIA,PPP3CC,PIK3CA,LCK,ITK,PLEKHA1,GRB2,CD80,ITPR1,LAT,ZAP70,NFATC4,ATM,ICOSLG/LOC102723996,PIK3C2B,AKT2,BAD,NFATC3,PPP3R1,ITPR3,PLCG1,CD247,IKBKE
HGF Signaling	0.01023293	2.84E-01	21/102 (21%)	0/102 (0%)	8/102 (8%)	JUN,AKT3,PIK3R5,ELF2,GAB1,MAP3K13,PIK3CA,PTPN11,ITGB1,GRB2,PRKCH,RAPGEF1,MAP3K3,MAPK9,RRAS2,PRKD3,CRKL,ATM,MAPK12,MAP3K14,CDK2,PIK3C2B,PTK2,AKT2,MAP3K9,MAP3K2,RAP1B,PLCG1,HGF
PKCθ Signaling in T Lymphocytes	0.01023293	2.77E-01	26/112 (23%)	0/112 (0%)	5/112 (4%)	JUN,CAMK2B,POU2F1,NFATC2,PIK3R5,NFKBIA,MAP3K13,PPP3CC,MALT1,CARD11,FYN,PIK3CA,BCL10,LCK,GRB2,CD80,LAT,MAP3K3,ZAP70,NFATC4,RRAS2,ATM,MAP3K14,PIK3C2B,MAP3K9,NFATC3,PPP3R1,MAP3K2,PLCG1,CD247,IKBKE
Protein Ubiquitination Pathway	0.01071519	2.29E-01	47/245 (19%)	0/245 (0%)	9/245 (4%)	HSPA1L,UBE2E3,USP11,SMURF2,USP7,BIRC3,ANAPC1,DNAJB2,ANAPC5,USP1,USP46,FBXW7,DNAJC9,STUB1,DNAJB14,USP32,TRAF6,PSMA4,UBE2G2,UBE2G1,PSMC2,USP51,UBE2D4,USP9X,NEDD4L,USP47,DNAJA1,USP54,DNAJC4,HSPA14,HSPE1,USP8,DNAJC27,SKP1,USP24,USP45,USP20,HSP90AA1,HSPB11,UBE2F,UBR1,UBE2N,B2M,UBE2D3,UBE3A,HSPA4,UBE2B,USP34,UBE2D2,USP12,DNAJB8,DNAJB4,UBE2Q1,MDM2,HSP90AB1,BAP1
Estrogen Receptor Signaling	0.01071519	2.66E-01	27/124 (22%)	0/124 (0%)	6/124 (5%)	KAT2B,GTF2H3,G6PC3,TAF4B,TAF3,SMARCA4,TAF9B,RBFOX2,POLR2K,NCOA3,MED14,GRB2,CREBBP,ESR2,MED10,NCOR1,POLR2I,ERCC3,CTBP1,MED13L,CDK7,RRAS2,NCOA1,MED1,MNAT1,MED17,POLR2C,HDAC3,TAF7,SPEN,POLR2D,TAF10,GTF2H1

Lymphotoxin β Receptor Signaling	0.01071519	3.4E-01	14/53 (26%)	0/53 (0%)	4/53 (8%)	AKT3,APAF1,ATM,MAP3K14,LTBR,PIK3R5,PIK3C2B,CYCS,NFKBIA,AKT2,VCAM1,TRAF5,PIK3CA,RELB,CREBBP,TRAF4,IKBKE,TRAF6
PPAR α /RXR α Activation	0.01348963	2.44E-01	27/168 (16%)	0/168 (0%)	14/168 (8%)	JUN,ACADL,MAPK14,GNA11,PRKACB,NFKBIA,NR2C2,NCOA3,CYP2C18,SMAD3,IL1RAPL2,GRB2,CREBBP,TGFBR1,NCOR1,HSP90AA1,PRKAR2A,TRAF6,PLCB1,SLC27A1,RRAS2,IL1B,SMAD2,MED1,PLCB4,ABCA1,MAP3K14,INSR,CPT1B,BMPR2,TGS1,CD36,TGFBR2,GNAS,PDIA3,PLCG1,PLCL2,HSP90AB1,STAT5B,ACVR1,IKBKE
B Cell Receptor Signaling	0.01348963	2.44E-01	30/168 (18%)	0/168 (0%)	11/168 (7%)	JUN,CAMK2B,MAPK14,AKT3,NFATC2,PIK3R5,GAB1,NFKBIA,MAP3K13,PPP3CC,MAL T1,INPP5B,PIK3CA,BCL10,PTPN11,INPP5K,GRB2,APBB1IP,CREBBP,SYNJ2,FOXO1,MAP3K3,MAPK9,NFATC4,TCF3,RRAS2,ATM,MAPK12,MAP3K14,PIK3C2B,PTK2,AKT2,BAD,CFL2,MAP3K9,NFATC3,PPP3R1,MAP3K2,EBF1,RAP1B,IKBKE
Role of NFAT in Cardiac Hypertrophy	0.01380384	2.41E-01	30/174 (17%)	0/174 (0%)	12/174 (7%)	CAMK2B,ITPR2,MAPK14,AKT3,RCAN3,SLC8A1,PIK3R5,PRKACB,PPP3CC,PIK3CA,GN G4,GRB2,ITPR1,TGFBR1,PRKCH,MAPK9,PRKAR2A,PLCB1,NFATC4,HDAC5,RRAS2,GNB2L1,PRKD3,ATM,MAPK12,PLCB4,PIK3C2B,CAMK1D,HDAC3,AKT2,IL6ST,GNB1L,TGFBR2,SLC8A2,GNAS,PPP3R1,ITPR3,GNB5,PDIA3,PLCG1,GN G2,PLCL2
Gaq Signaling	0.01584893	2.5E-01	25/144 (17%)	0/144 (0%)	11/144 (8%)	RHOH,ITPR2,GNA11,AKT3,NFATC2,PIK3R5,PLD1,NFKBIA,PPP3CC,PIK3CA,GN G4,ITPR1,PRKCH,AVPR1A,HTR2A,FNBP1,PLCB1,NFATC4,GNB2L1,PRKD3,ATM,PLCB4,PIK3C2B,AKT2,NFATC3,GNB1L,ADRBK1,GNAS,PPP3R1,ITPR3,GNB5,PLCG1,GN G2,RHOF,AVPR1B,IKBKE
IL-15 Signaling	0.01584893	3.08E-01	16/65 (25%)	0/65 (0%)	4/65 (6%)	IL15,MAPK14,AKT3,RRAS2,MAPK12,ATM,JAK3,PIK3R5,IL2RB,PIK3C2B,JAK1,PTK2,AKT2,VCAM1,PIK3CA,TNF,BCL2,LCK,PLCG1,STAT5B
fMLP Signaling in Neutrophils	0.01659587	2.67E-01	20/105 (19%)	0/105 (0%)	8/105 (8%)	ITPR2,ACTR2,NFATC2,PIK3R5,ARPC5L,NFKBIA,PPP3CC,PIK3CA,GN G4,ITPR1,PRKCH,PLCB1,NFATC4,RRAS2,GNB2L1,PRKD3,ATM,PLCB4,PIK3C2B,ACTR3,NFATC3,GNB1L,GNAS,PPP3R1,ITPR3,GNB5,GN G2,CYBB
Role of NFAT in Regulation of the Immune Response	0.01659587	2.41E-01	31/162 (19%)	0/162 (0%)	8/162 (5%)	JUN,ITPR2,GNA11,AKT3,NFATC2,RCAN3,PIK3R5,NFKBIA,PPP3CC,MS4A2,FYN,PIK3CA,LCK,GN G4,ITK,CSNK1G3,GRB2,CD80,ITPR1,LAT,ZAP70,PLCB1,NFATC4,RRAS2,GNB2L1,ATM,PLCB4,PIK3C2B,AKT2,NFATC3,GNB1L,GNAS,PPP3R1,ITPR3,GNB5,PLCG1,GN G2,CD247,IKBKE
Tec Kinase Signaling	0.01737801	2.43E-01	27/152 (18%)	0/152 (0%)	10/152 (7%)	RHOH,GNA11,JAK3,PIK3R5,TNFRSF25,PAK7,MS4A2,FYN,PIK3CA,ACTG1,STAT1,AC TB,TNF,LCK,GN G4,ITGB1,ITK,PRKCH,MAPK9,FNBP1,STAT4,GNB2L1,PRKD3,ATM,MAPK12,JAK1,PIK3C2B,PTK2,TXK,GNB1L,GNAS,GNB5,PLCG1,GN G2,FAS,STAT5B,RHOF
RANK Signaling in Osteoclasts	0.01737801	2.79E-01	19/86 (22%)	0/86 (0%)	5/86 (6%)	JUN,MAPK14,AKT3,NFATC2,MAPK12,ATM,MAP3K14,PIK3R5,PIK3C2B,TAB2,NFKBIA,AKT2,MAP3K13,PPP3CC,MAP3K9,TRAF5,BIRC3,PIK3CA,PPP3R1,MAP3K2,MAP3K3,MAPK9,IKBKE,TRAF6
T Cell Receptor Signaling	0.01737801	2.71E-01	24/96 (25%)	0/96 (0%)	2/96 (2%)	JUN,NFATC2,PIK3R5,NFKBIA,PPP3CC,RASGRP1,MALT1,CARD11,FYN,PIK3CA,BCL10,LCK,ITK,GRB2,LAT,ZAP70,NFATC4,RRAS2,ATM,PIK3C2B,TXK,NFATC3,PPP3R1,PLCG1,CD247,IKBKE
UVA-Induced MAPK Signaling	0.01905461	2.76E-01	18/87 (21%)	0/87 (0%)	6/87 (7%)	JUN,PLCB1,MAPK14,RRAS2,MAPK12,PLCB4,ATM,SMPD1,PIK3R5,PIK3C2B,PARP8,CYCS,PARP6,PARP10,TIPARP,RPS6KA5,PIK3CA,STAT1,TNKS2,PDIA3,PLCG1,PLCL2,SMPD4,MAPK9
Leptin Signaling in Obesity	0.01949845	2.88E-01	15/73 (21%)	0/73 (0%)	6/73 (8%)	PLCB1,AKT3,SOCS3,PLCB4,PDE3B,ATM,PIK3R5,PIK3C2B,LEPR,PRKACB,AKT2,GHRL,GNAS,PIK3CA,PTPN11,GRB2,PDIA3,PLCG1,PLCL2,FOXO1,PRKAR2A
Ephrin Receptor Signaling	0.01949845	2.34E-01	20/171 (12%)	0/171 (0%)	20/171 (12%)	ARHGEF15,GNA11,AKT3,ACTR2,EPHA3,ARPC5L,RGS3,PAK7,GRIN2C,GRIN3B,CXCR4,FYN,PTPN11,GN G4,ITGB1,GRB2,EPHA5,CREBBP,RAPGEF1,VEGFB,NCK1,EFNB1,EPHB6,RRAS2,GNB2L1,CRKL,MAP3K14,EPHB2,EPHA7,PTK2,ACTR3,AKT2,CFL2,GNB1L,PROK1,GNAS,ACP1,GNB5,RAP1B,GN G2

ATM Signaling	0.01949845	3.05E-01	14/59 (24%)	0/59 (0%)	4/59 (7%)	JUN,MAPK14,TLK2,MAPK12,ATM,CDK2,TLK1,GADD45B,TDP1,NFKBIA,SMC3,FANCD2,CREBBP,MDM2,MRE11A,MAPK9,CHEK1,MDM4
Dendritic Cell Maturation	0.01949845	2.39E-01	26/155 (17%)	0/155 (0%)	11/155 (7%)	CCR7,IL15,MAPK14,IL12A,AKT3,PIK3R5,LEPR,NFKBIA,CD83,PIK3CA,STAT1,RELB,TNF,CD80,CREBBP,TLR2,MAPK9,TRAF6,PLCB1,STAT4,IL1B,ATM,MAPK12,PLCB4,COL3A1,LTBR,MAP3K14,COL1A2,PIK3C2B,B2M,AKT2,IL1A,PDIA3,PLCG1,PLCL2,ICAM1,IKBKE
Phospholipase C Signaling	0.02089296	2.21E-01	36/222 (16%)	0/222 (0%)	13/222 (6%)	PEBP1,ITPR2,NFATC2,PLD1,MPRIP,LCK,GNG4,ITPR1,LAT,PRKCH,PLA2G4A,ZAP70,HDAC5,PRKD3,PLCB4,HDAC3,GNB1L,PPP3R1,GNB5,MYL3,RAP1B,ARHGEF9,PLA2G2D,ARHGEF11,ARHGEF15,RHOH,PPP1R14A,PPP3CC,FYN,ARHGEF7,ITGB1,ITK,GRB2,CREBBP,ARHGEF18,FNBP1,PLCB1,NFATC4,RRAS2,GNB2L1,MYL12A,NFATC3,GNAS,ITPR3,PLA2G12A,PLCG1,GNG2,CD247,RHOF
HIF1α Signaling	0.02089296	2.63E-01	15/99 (15%)	0/99 (0%)	11/99 (11%)	JUN,MAPK14,AKT3,MMP2,PIK3R5,P4HTM,PIK3CA,ARNT,CREBBP,VEGFB,HSP90AA1,MMP28,MAPK9,NAA10,MMP11,RRAS2,NCOA1,ATM,MAPK12,PIK3C2B,AKT2,MMP7,PROK1,MDM2,MMP24,MMP14
Angiopoietin Signaling	0.02238721	2.92E-01	15/65 (23%)	0/65 (0%)	4/65 (6%)	AKT3,RRAS2,ATM,BIRC5,PIK3R5,PIK3C2B,PTK2,NFKBIA,AKT2,PAK7,BAD,PIK3CA,PTPN11,GRB2,TNIP1,STAT5B,NCK1,FOXO1,IKBKE
IL-3 Signaling	0.02290868	2.86E-01	17/70 (24%)	0/70 (0%)	3/70 (4%)	JUN,AKT3,RRAS2,CRKL,PRKD3,ATM,PIK3R5,PIK3C2B,JAK1,AKT2,PPP3CC,BAD,PIK3CA,PPP3R1,STAT1,GRB2,PRKCH,RAPGEF1,STAT5B,FOXO1
NF-κB Signaling	0.02511886	2.32E-01	30/164 (18%)	0/164 (0%)	8/164 (5%)	AKT3,PIK3R5,TAB2,PRKACB,NFKBIA,PELI1,MALT1,CARD11,PIK3CA,BCL10,RELB,TNF,LCK,CREBBP,TGFBR1,NTRK2,TLR2,MAP3K3,ZAP70,TRAF6,SIGIRR,TANK,TNFSF13B,TAB3,RRAS2,IL1B,ATM,LTBR,MAP3K14,UBE2N,INSR,PIK3C2B,AKT2,TRAF5,BMPR2,TGFBR2,IL1A,TNIP1
Thrombin Signaling	0.02511886	2.26E-01	27/186 (15%)	0/186 (0%)	15/186 (8%)	CAMK2B,GATA2,RHOH,ARHGEF11,ARHGEF15,ITPR2,MAPK14,GNA11,AKT3,PIK3R5,MPRIPI,PIK3CA,GNG4,GRB2,ITPR1,PRKCH,F2,FNBP1,PLCB1,RRAS2,F2RL2,GNB2L1,PRKD3,ATM,MAPK12,PLCB4,MYL12A,PIK3C2B,CAMK1D,PTK2,AKT2,GNB1L,GNAS,ITPR3,GNB5,MYL3,PDIA3,PLCG1,GNG2,PLCL2,ARHGEF9,RHOF
Leukocyte Extravasation Signaling	0.02511886	2.24E-01	22/192 (11%)	0/192 (0%)	21/192 (11%)	RHOH,MAPK14,MMP2,CLDN8,PIK3R5,ITGB2,RASGRP1,VCAM1,CXCR4,PIK3CA,ACTG1,ACTB,PTPN11,ITGB1,ITK,PRKCH,MMP28,MAPK9,CTNNA1,JAM2,MMP11,PRKD3,CRKL,VASP,ATM,MAPK12,EZR,CLDN18,ITGA6,ARHGAP35,PIK3C2B,CTNNA3,PTK2,TXK,MMP7,TIMP3,RAP1B,ARHGAP4,PLCG1,ICAM1,CYBB,MMP24,MMP14
Protein Kinase A Signaling	0.02570396	2.01E-01	49/364 (13%)	0/364 (0%)	24/364 (7%)	CAMK2B,ITPR2,ADD1,NFATC2,DUSP26,PRKACB,NFKBIA,ANAPC1,ANAPC5,DUSP18,SMAD3,GNG4,ITPR1,TGFBR1,PRKCH,AKAP1,DUSP16,PRKAR2A,PTPN14,PTPRM,PRKD3,LEF1,PLCB4,PTK2,DUSP2,BAD,PTPN1,ADD3,GNB1L,TGFBR2,ACP1,PPP3R1,GNB5,PTPRG,MYL3,RAP1B,PDIA3,FLNB,YWHAQ,PPP1R14A,PHKA2,DUSP11,PDE3B,PTPN22,PPP3CC,PTPN4,PPP1R3D,HIST1H1C,PDE11A,PDE7A,PTPN11,DCC,CREBBP,SIRPA,YWHAB,AKAP6,PLCB1,NFATC4,PTPN9,TCF3,GNB2L1,VASP,PDE1B,MYL12A,NFATC3,PDE8A,GNAS,ITPR3,PLCG1,GNG2,PLCL2,TTN,CDC25B
Aryl Hydrocarbon Receptor Signaling	0.02630268	2.41E-01	19/133 (14%)	0/133 (0%)	13/133 (10%)	JUN,RARA,APAF1,RBL2,MCM7,SMARCA4,NCOA3,ALDH1A2,TNF,ATR,ARNT,ESR2,ALDH1B1,CDK6,HSP90AA1,CYP1B1,MGST3,GSTA3,CCND2,IL1B,ATM,ALDH7A1,MED1,CDK2,ALDH18A1,ALDH4A1,IL1A,MDM2,FAS,HSP90AB1,CHEK1,NFE2L2
Ketolysis	0.02691535	6.25E-01	3/8 (38%)	0/8 (0%)	2/8 (25%)	ACAT2,BDH1,ACAT1,OXCT1,BDH2
Cell Cycle: G2/M DNA Damage Checkpoint Regulation	0.03090295	3.06E-01	12/49 (24%)	0/49 (0%)	3/49 (6%)	KAT2B,YWHAQ,PPM1D,CDK7,AURKA,PTPMT1,ATM,SKP1,ATR,MDM2,HIPK2,YWHAB,CHEK1,CDC25B,MDM4

CREB Signaling in Neurons	0.03090295	2.26E-01	24/168 (14%)	0/168 (0%)	14/168 (8%)	CAMK2B,ITPR2,GNA11,AKT3,PIK3R5,PRKACB,GRIN2C,POLR2K,PIK3CA,GNG4,GRI A2,GRB2,CREBBP,ITPR1,PRKCH,POLR2I,GRM8,PRKAR2A,PLCB1,GRIK5,RRAS2,G NB2L1,PRKD3,GRIK2,ATM,PLCB4,PIK3C2B,POLR2C,AKT2,GNB1L,GNAS,ITPR3,POL R2D,GNB5,PDIA3,PLCG1,GNG2,PLCL2
B Cell Activating Factor Signaling	0.03090295	3.25E-01	9/40 (23%)	0/40 (0%)	4/40 (10%)	JUN,NFATC4,MAPK14,TNFSF13B,NFATC2,MAPK12,MAP3K14,NFKBIA,TRAF5,NFAT C3,MAPK9,IKBKE,TRAF6
Role of Osteoblasts, Osteoclasts and Chondrocytes in Rheumatoid Arthritis	0.03090295	2.16E-01	30/213 (14%)	0/213 (0%)	16/213 (8%)	JUN,MAPK14,AKT3,NFATC2,FZD2,PIK3R5,TAB2,NFKBIA,PPP3CC,BIRC3,APC,WNT8 B,PIK3CA,ADAMTS5,TNF,ITGB1,IL1RAPL2,BMP6,FOXO1,MAPK9,BMP7,TRAF6,NFAT C4,TCF3,IL1B,WNT7B,ATM,MAPK12,LEF1,MAP3K14,PIK3C2B,AKT2,DVL1,BAD,TRA F5,NFATC3,BMPR2,NAIP,PPP3R1,BCL2,BMP1,IL1A,FRZB,APC2,MMP14,IKBKE
1D-myo-inositol Hexakisphosphate Biosynthesis II (Mammalian)	0.03090295	4.21E-01	6/19 (32%)	0/19 (0%)	2/19 (11%)	ITPK1,INPP5B,ITPKB,INPP5E,INPP5K,SYNJ2,SEC16A,INPP5A
3-phosphoinositide Degradation	0.03090295	2.35E-01	22/136 (16%)	0/136 (0%)	10/136 (7%)	NUDT3,PPP1R14A,SOCS3,PPFIA2,ATP1A1,DUSP11,PTPN22,ILKAP,INPP5B,DUSP1 4,TNS3,PTPN11,INPP5E,INPP5K,SYNJ2,SIRPA,DUSP16,MTMR1,PTPRM,PTPMT1,DU SP2,PTPN1,ITPK1,STYX,ACP1,TMEM55B,UBLCP1,EYA4,NUDT4,PPP1R13B,CDC25B ,PGAM5
Xenobiotic Metabolism Signaling	0.03235937	2.1E-01	29/248 (12%)	0/248 (0%)	23/248 (9%)	GAL3ST2,CAMK2B,CYP3A7,PIK3R5,SCAND1,ANKRA2,ARNT,PRKCH,ALDH1B1,CYP 1B1,ABCC3,MGST3,MAPK9,CHST2,HDAC5,GSTA3,NCOA1,IL1B,PRKD3,ALDH7A1,M ED1,MAPK12,PIK3C2B,ALDH18A1,CAMK1D,MAF,CYP3A5,IL1A,MAPK14,CHST13,IL4I 1,MAP3K13,ALDH1A2,PIK3CA,TNF,CREBBP,HSP90AA1,MAP3K3,HS3ST3B1,HS2ST1 ,RRAS2,ATM,MAP3K14,CES1,PPP2R2A,MAP3K9,ALDH4A1,MAP3K2,FTL,HSP90AB1, EIF2AK3,NFE2L2
Reelin Signaling in Neurons	0.03235937	2.66E-01	16/79 (20%)	0/79 (0%)	5/79 (6%)	ARHGEF15,ARHGEF11,CRKL,MAPK12,ATM,ITGA6,MAP4K1,PIK3R5,PIK3C2B,ITGB2, LRP8,MAP3K9,FYN,CDK5R1,PIK3CA,ITGB1,LCK,ARHGEF9,PAFAH1B3,APBB1,MAP K9
Fc Epsilon RI Signaling	0.03235937	2.48E-01	17/105 (16%)	0/105 (0%)	9/105 (9%)	PLA2G2D,MAPK14,AKT3,PIK3R5,GAB1,MS4A2,FYN,INPP5B,PIK3CA,PTPN11,TNF,IN PP5K,GRB2,SYNJ2,LAT,PRKCH,PLA2G4A,MAPK9,RRAS2,PRKD3,ATM,MAPK12,PIK 3C2B,AKT2,PLA2G12A,PLCG1
NGF Signaling	0.03235937	2.48E-01	19/105 (18%)	0/105 (0%)	7/105 (7%)	AKT3,PIK3R5,GAB1,MAP3K13,RPS6KA5,PIK3CA,PTPN11,GRB2,CREBBP,TRAF4,MA P3K3,MAPK9,TRAF6,RRAS2,ATM,MAPK12,SMPD1,MAP3K14,PIK3C2B,AKT2,MAP3K 9,MAP3K2,RAP1B,PLCG1,SMPD4,IKBKE
eNOS Signaling	0.03235937	2.34E-01	22/137 (16%)	0/137 (0%)	10/137 (7%)	HSPA1L,ITPR2,LPAR1,AKT3,CHRNA10,PIK3R5,GUCY1A3,PRKACB,HSPA14,AQP3,P IK3CA,STUB1,ITPR1,ESR2,PRKCH,LPAR3,VEGFB,HSP90AA1,PRKAR2A,GUCY1A2, PRKD3,ATM,PIK3C2B,AKT2,NOSIP,PROK1,HSPA4,GNAS,ITPR3,DNM2,PLCG1,HSP9 0AB1
G Protein Signaling Mediated by Tubby	0.03311311	3.44E-01	6/32 (19%)	0/32 (0%)	5/32 (16%)	PLCB1,GNB1L,GNAS,GNB2L1,GNB5,GNG4,PLCB4,LCK,INSR,PLCG1,GNG2
IL-17A Signaling in Airway Cells	0.03388442	2.83E-01	14/60 (23%)	0/60 (0%)	3/60 (5%)	MAPK14,AKT3,MAPK12,ATM,JAK3,PIK3R5,CCL20,PIK3C2B,JAK1,NFKBIA,AKT2,IL17 RA,PIK3CA,CXCL3,MAPK9,IKBKE,TRAF6

Hypoxia Signaling in the Cardiovascular System	0.03388442	2.77E-01	14/65 (22%)	0/65 (0%)	4/65 (6%)	JUN,UBE2F,UBE2G2,ATM,UBE2E3,UBE2N,NFKBIA,UBE2D3,UBE2G1,UBE2D4,UBE2B,UBE2D2,CREBBP,ARNT,UBE2Q1,MDM2,HSP90AB1,HSP90AA1
Regulation of eIF4 and p70S6K Signaling	0.03388442	2.32E-01	27/138 (20%)	0/138 (0%)	5/138 (4%)	RPS27L,MAPK14,AKT3,RPS10,PIK3R5,EIF3B,RPS5,RPS20,PIK3CA,ITGB1,RPS11,GRB2,AGO2,RPS25,EIF1AX,RRAS2,RPS18,ATM,MAPK12,PIK3C2B,RPS2,FAU,PPP2R2A,AKT2,RPS19,AGO4,RPS16,EIF2S3,RPS17,EIF2A,PAIP1,RPS15
Amyotrophic Lateral Sclerosis Signaling	0.03630781	2.5E-01	13/96 (14%)	0/96 (0%)	11/96 (11%)	SOD1,GRIK5,CACNA1E,AKT3,APAF1,GRIK2,ATM,RAB5A,PIK3R5,PIK3C2B,SSR4,CYCS,CACNA1A,GRIN2C,BIRC3,NAIP,GRIN3B,PROK1,PIK3CA,GRIA2,BCL2,CACNA1C,VEGFB,CAPN7
IL-22 Signaling	0.03630781	3.75E-01	6/24 (25%)	0/24 (0%)	3/24 (13%)	MAPK14,AKT3,SOCS3,STAT1,MAPK12,JAK1,STAT5B,AKT2,MAPK9
EGF Signaling	0.03715352	2.86E-01	12/56 (21%)	0/56 (0%)	4/56 (7%)	JUN,ITPR2,MAPK14,AKT3,MAPK12,ATM,PIK3R5,PIK3C2B,JAK1,AKT2,PIK3CA,ITPR3,STAT1,GRB2,PLCG1,ITPR1
Role of Tissue Factor in Cancer	0.03715352	2.43E-01	16/107 (15%)	0/107 (0%)	10/107 (9%)	FGF5,MAPK14,GNA11,AKT3,PIK3R5,RPS6KA5,FYN,PIK3CA,PTPN11,LCK,ITGB1,F2,PLCB1,HBEGF,RRAS2,IL1B,F7,ATM,MAPK12,ITGA6,PLAUR,PIK3C2B,AKT2,CFL2,FGB,STAT5B
Small Cell Lung Cancer Signaling	0.03715352	2.68E-01	17/71 (24%)	0/71 (0%)	2/71 (3%)	AKT3,APAF1,ATM,CDK2,PIK3R5,PIK3C2B,CYCS,PTK2,NFKBIA,MAX,AKT2,TRAF5,PIK3CA,BCL2,CDKN2B,CDK6,TRAF4,IKBKE,TRAF6
Nucleotide Excision Repair	0.03801894	3.33E-01	10/33 (30%)	0/33 (0%)	1/33 (3%)	ERCC1,GTF2H3,CDK7,POLR2D,MNAT1,RPA1,POLR2C,POLR2I,POLR2K,ERCC3,GTF2H1
RAR Activation	0.03801894	2.2E-01	28/173 (16%)	0/173 (0%)	10/173 (6%)	KAT2B,JUN,MAPK14,PML,AKT3,GTF2H3,DHRS9,RARA,SMARCA2,NSD1,SMARCA4,RDH13,PRKACB,SCAND1,ALDH1A2,RDH14,PIK3CA,RELB,SMAD3,CREBBP,NCOR1,PRKCH,MAPK9,PRKAR2A,ERCC3,CDK7,NCOA1,PRKD3,SMAD2,MED1,MAPK12,MNAT1,AKT2,GNAS,PRMT2,TNIP1,STAT5B,GTF2H1
April Mediated Signaling	0.04168694	3.16E-01	9/38 (24%)	0/38 (0%)	3/38 (8%)	JUN,NFATC3,NFATC4,MAPK14,NFATC2,MAPK12,MAP3K14,NFKBIA,MAPK9,TRAF5,TRAF6,IKBKE
Netrin Signaling	0.04168694	3.16E-01	7/38 (18%)	0/38 (0%)	5/38 (13%)	NFATC3,NFATC4,PPP3R1,NFATC2,DCC,UNC5B,ABLIM1,PRKACB,NCK1,PPP3CC,ENAH,PRKAR2A
Production of Nitric Oxide and Reactive Oxygen Species in Macrophages	0.04265795	2.19E-01	26/169 (15%)	0/169 (0%)	11/169 (7%)	JUN,RHOH,PPP1R14A,MAPK14,AKT3,JAK3,PIK3R5,NFKBIA,MAP3K13,PPP1R3D,PIK3CA,STAT1,TNF,CREBBP,PRKCH,SIRPA,TLR2,MAP3K3,MAPK9,ALB,FNBP1,PRKD3,ATM,MAPK12,MAP3K14,JAK1,PIK3C2B,PPP2R2A,AKT2,MAP3K9,MAP3K2,CLU,RAP1B,PLCG1,CYBB,RHOF,IKBKE
Natural Killer Cell Signaling	0.04265795	2.47E-01	19/93 (20%)	0/93 (0%)	4/93 (4%)	AKT3,RRAS2,PRKD3,KLRB1,ATM,PIK3R5,PIK3C2B,AKT2,PAK7,FYN,INPP5B,PIK3CA,PTPN11,LCK,INPP5K,GRB2,PLCG1,SYNJ2,LAT,PRKCH,CD247,NCK1,ZAP70
Role of JAK family kinases in IL-6-type Cytokine Signaling	0.04265795	3.6E-01	5/25 (20%)	0/25 (0%)	4/25 (16%)	MAPK14,SOCS3,PTPN11,STAT1,MAPK12,JAK1,STAT5B,IL6ST,MAPK9
Systemic Lupus Erythematosus Signaling	0.04265795	2.17E-01	33/175 (19%)	0/175 (0%)	5/175 (3%)	JUN,SNRPB2,AKT3,NFATC2,PIK3R5,SNRPD1,HNRNPC,RNPC3,LSM5,PIK3CA,PRPF18,TNF,PRPF8,LCK,SNRPA1,IGHM,GRB2,CD80,LAT,NFATC4,TNFSF13B,RRAS2,IL1B,ATM,LSM8,PIM2,PIK3C2B,PRPF3,AKT2,SART1,NFATC3,SNRPD2,SNRPN,IL1A,PRPF40A,PLCG1,CD247,PRPF31
Assembly of RNA Polymerase II Complex	0.04466836	2.92E-01	13/48 (27%)	0/48 (0%)	1/48 (2%)	GTF2H3,CDK7,MNAT1,TAF4B,TAF3,TAF9B,POLR2C,TAF7,POLR2K,POLR2D,TAF10,POLR2I,ERCC3,GTF2H1

Role of CHK Proteins in Cell Cycle Checkpoint Control	0.04466836	2.83E-01	13/53 (25%)	0/53 (0%)	2/53 (4%)	RFC3,TLK2,ATM,CDK2,TLK1,E2F3,PPP2R2A,RFC1,RFC5,ATR,RPA1,RAD17,MRE11A,ATMIN,CHEK1
IL-2 Signaling	0.04466836	2.83E-01	13/53 (25%)	0/53 (0%)	2/53 (4%)	JUN,AKT3,RRAS2,ATM,JAK3,PIK3R5,IL2RB,PIK3C2B,JAK1,AKT2,PIK3CA,PTPN11,LCK,GRB2,STAT5B
CCR3 Signaling in Eosinophils	0.04570882	2.36E-01	17/110 (15%)	0/110 (0%)	9/110 (8%)	PLA2G2D,ITPR2,MAPK14,PIK3R5,PAK7,MPRIIP,PIK3CA,GNG4,ITPR1,PRKCH,PLA2G4A,PLCB1,RRAS2,GNB2L1,PRKD3,ATM,MAPK12,PLCB4,PIK3C2B,CFL2,GNB1L,GNAS,ITPR3,GNB5,PLA2G12A,GNG2
VEGF Signaling	0.04677351	2.47E-01	16/89 (18%)	0/89 (0%)	6/89 (7%)	EIF1AX,AKT3,RRAS2,ATM,PIK3R5,PIK3C2B,PTK2,AKT2,BAD,PROK1,EIF2S3,PIK3CA,ACTG1,ACTB,PTPN11,BCL2,GRB2,PLCG1,ARNT,ELAVL1,VEGFB,FOXO1
IL-8 Signaling	0.04786301	2.15E-01	26/177 (15%)	0/177 (0%)	12/177 (7%)	JUN,RHOH,AKT3,MMP2,PIK3R5,ITGB2,PLD1,VCAM1,PIK3CA,GNG4,PRKCH,VEGFB,MAPK9,TRAF6,FNBP1,HBEGF,RRAS2,CCND2,GNB2L1,PRKD3,VASP,ATM,MAPK12,RAB11FIP2,PIK3C2B,PTK2,AKT2,GNB1L,PROK1,GNAS,GNB5,CXCR1,BCL2,GNG2,ICAM1,CYBB,RHOF,IKBKE
CXCR4 Signaling	0.04786301	2.21E-01	24/149 (16%)	0/149 (0%)	9/149 (6%)	JUN,RHOH,ARHGEF11,ITPR2,GNA11,AKT3,PIK3R5,PAK7,CXCR4,PIK3CA,GNG4,ITPR1,PRKCH,MAPK9,FNBP1,PLCB1,RRAS2,GNB2L1,PRKD3,ATM,MAPK12,PLCB4,MYL12A,PIK3C2B,PTK2,AKT2,GNB1L,GNAS,ITPR3,GNB5,MYL3,GNG2,RHOF
HER-2 Signaling in Breast Cancer	0.04897788	2.57E-01	15/74 (20%)	0/74 (0%)	4/74 (5%)	AKT3,MMP2,RRAS2,PRKD3,ATM,PIK3R5,PIK3C2B,ITGB2,AKT2,BAD,AREG,PIK3CA,ITGB1,GRB2,PLCG1,MDM2,PRKCH,CDK6,FOXO1
Cellular Effects of Sildenafil (Viagra)	0.04897788	2.3E-01	12/122 (10%)	0/122 (0%)	16/122 (13%)	SLC4A11,ITPR2,PDE3B,GUCY1A3,PRKACB,MPRIIP,MYH14,ACTG1,ACTB,MYH11,ITPR1,PRKAR2A,NPPA,PLCB1,CACNA1E,GUCY1A2,PLCB4,MYL12A,PDE1B,CACNG1,CACNA1A,GNAS,ITPR3,MYL3,CACNA1C,PDIA3,PLCG1,PLCL2
Adipogenesis pathway	0.04897788	2.3E-01	21/122 (17%)	0/122 (0%)	7/122 (6%)	GTF2H3,ATG5,FZD2,RBP7,DGKD,LPIN1,FBXW7,TNF,SMAD3,FOXO1,BMP7,ERCC3,CTBP1,NFATC4,HDAC5,FABP4,CDK7,SREBF1,MNAT1,SAP18,ATG7,HDAC3,KLF3,EBF1,NR1D2,XBP1,STAT5B,GTF2H1
Role of Macrophages, Fibroblasts and Endothelial Cells in Rheumatoid Arthritis	0.04897788	1.98E-01	36/288 (13%)	0/288 (0%)	21/288 (7%)	CAMK2B,NFATC2,PIK3R5,NFKBIA,IL1RAPL2,PRKCH,TLR2,MAPK9,TRAF6,TNFSF13B,CCL5,IL1B,PRKD3,LEF1,PLCB4,LTBR,PIK3C2B,TRAF5,PROK1,IL17RA,PPP3R1,IL1A,PDIA3,IKBKE,JUN,IL15,MAPK14,AKT3,SOCS3,FZD2,PPP3CC,APC,VCAM1,WNT8B,FN1,PIK3CA,TNF,CREBBP,CEBPE,TRAF4,VEGFB,PLCB1,NFATC4,TCF3,RRAS2,WNT7B,ATM,MAP3K14,AKT2,DVL1,IL6ST,NFATC3,PLCG1,PLCL2,FRZB,ICAM1,APC2
SAPK/JNK Signaling	0.04897788	2.44E-01	15/90 (17%)	0/90 (0%)	7/90 (8%)	JUN,MAP4K2,RRAS2,ZAK,CRKL,MAP4K5,MAPK12,ATM,MAP4K1,PIK3R5,PIK3C2B,GAB1,MAP3K13,MAP3K9,NFATC3,PIK3CA,MAP3K2,LCK,GRB2,GNG2,MAP3K3,MAPK9
Death Receptor Signaling	0.04897788	2.44E-01	15/90 (17%)	0/90 (0%)	7/90 (8%)	TANK,CASP10,APAF1,HTRA2,MAP3K14,PARP8,CYCS,NFKBIA,TNFRSF25,ACIN1,PARP6,BIRC3,PARP10,TIPARP,NAIP,ACTG1,ACTB,TNF,BCL2,TNKS2,FAS,IKBKE

Supplementary Table S8: Immune/inflammatory molecules among the 357 gene signature of Tolerance.

Categories	Diseases or Functions Annotation	p-value	Molecules	# Molecules
Cell-To-Cell Signaling and Interaction, Cellular Function and Maintenance, Hematological System Development and Function, Inflammatory Response	phagocytosis of leukocyte cell lines	5.18E-04	FGR,MRC1,TLR4	3
Cell-To-Cell Signaling and Interaction, Hematological System Development and Function, Immune Cell Trafficking, Inflammatory Response, Tissue Development	binding of neutrophils	1.19E-03	FGR,LSP1,TLR4	3
Antimicrobial Response, Inflammatory Response	antibacterial response	1.68E-03	CARD9,FGR,LYST,NLRC4,TLR4	5
Cell-To-Cell Signaling and Interaction, Hematological System Development and Function, Inflammatory Response	binding of professional phagocytic cells	2.08E-03	FGR,LSP1,NOTCH2,TLR4	4
Inflammatory Response	immune response of cells	5.95E-03	CARD9,CLEC7A,ETS2,FGR,MRC1,MYO7A,SCARF1,TLR4	8
Antimicrobial Response, Inflammatory Response	antimicrobial response	6.20E-03	CARD9,CLEC7A,FGR,LYST,NLRC4,TLR4	6
Inflammatory Response	innate immune response	6.56E-03	CARD9,CLEC7A,TLR4,TRIM59	4
Cellular Function and Maintenance, Inflammatory Response	phagocytosis	6.92E-03	CLEC7A,ETS2,FGR,MRC1,MYO7A,TLR4,TPCN2	7
Cell-To-Cell Signaling and Interaction, Inflammatory Response	immune response of renal tubular epithelial cells	1.26E-02	TLR4	1
Hematological System Development and Function, Inflammatory Response, Tissue Morphology	number of non-plasmacytoid dendritic cells	1.26E-02	NOTCH2	1
Hematological System Development and Function, Inflammatory Response, Tissue Morphology	quantity of spleen-derived dendritic cells	1.26E-02	RPTOR	1
Cell Morphology, Inflammatory Response	size of Langerhans cells	1.26E-02	RPTOR	1
Cell-To-Cell Signaling and Interaction, Cellular Growth and Proliferation, Hematological System Development and Function, Hypersensitivity Response, Inflammatory Response	stimulation of BMDC cells	1.26E-02	TLR4	1
Cellular Function and Maintenance, Inflammatory Response	turnover of Langerhans cells	1.26E-02	RPTOR	1
Cell-To-Cell Signaling and Interaction, Cellular Growth and Proliferation, Hematological System Development and Function, Inflammatory Response	stimulation of phagocytes	1.31E-02	IL4R,TLR4	2
Antimicrobial Response, Humoral Immune Response, Inflammatory Response	antifungal response	1.50E-02	CARD9,CLEC7A	2
Cell-To-Cell Signaling and Interaction, Cellular Function and Maintenance, Inflammatory Response	phagocytosis of cells	1.66E-02	CLEC7A,ETS2,FGR,MRC1,MYO7A,TLR4	6
Cell Morphology, Cellular Assembly and Organization, Cellular Function and Maintenance, Inflammatory Response	accumulation of autophagosomes	2.51E-02	TPCN2	1
Antimicrobial Response, Humoral Immune Response, Inflammatory Response	detection of yeast	2.51E-02	CLEC7A	1
Cell Morphology, Cellular Assembly and Organization, Cellular Function and Maintenance, Inflammatory Response	fusion of autophagosomes	2.51E-02	TPCN2	1
Cell Morphology, Hematological System Development and Function, Inflammatory Response	polarization of neutrophils	2.51E-02	LSP1	1
Immunological Disease, Inflammatory Disease, Inflammatory Response, Respiratory Disease	allergic inflammation of airway	3.74E-02	TLR4	1

Immunological Disease, Inflammatory Disease, Inflammatory Response, Organismal Injury and Abnormalities, Renal and Urological Disease	lupus-like autoimmune nephritis	3.74E-02	IL21R	1
Cellular Development, Cellular Growth and Proliferation, Hematological System Development and Function, Inflammatory Response	proliferation of mononuclear phagocyte progenitors	3.74E-02	CSF1R	1
Cell-To-Cell Signaling and Interaction, Cellular Movement, Hematological System Development and Function, Immune Cell Trafficking, Inflammatory Response	recruitment of tumor-associated macrophages	3.74E-02	CSF1R	1
Cell-To-Cell Signaling and Interaction, Cellular Growth and Proliferation, Hematological System Development and Function, Inflammatory Response	stimulation of bone marrow-derived dendritic cells	3.74E-02	TLR4	1
Inflammatory Response	acute inflammatory response of lung	4.96E-02	TLR4	1
Auditory Disease, Dermatological Diseases and Conditions, Immunological Disease, Inflammatory Disease, Inflammatory Response	allergic contact dermatitis of ear	4.96E-02	TLR4	1
Cell-To-Cell Signaling and Interaction, Hematological System Development and Function, Hypersensitivity Response, Inflammatory Response	binding of mast cells	4.96E-02	NOTCH2	1
Infectious Disease, Inflammatory Disease, Inflammatory Response	experimentally induced bacterial peritonitis	4.96E-02	CMKLR1	1
Cell-To-Cell Signaling and Interaction, Cellular Growth and Proliferation, Hematological System Development and Function, Inflammatory Response	induction of alternatively activated macrophages	4.96E-02	IL4R	1
Cell Morphology, Hematological System Development and Function, Inflammatory Response, Organismal Development	morphology of peritoneal macrophages	4.96E-02	ETS2	1
Cell-To-Cell Signaling and Interaction, Cellular Function and Maintenance, Inflammatory Response	phagocytosis of leukemia cell lines	4.96E-02	ETS2	1
Cell-To-Cell Signaling and Interaction, Cellular Function and Maintenance, Inflammatory Response	phagocytosis of osteoclast precursor cells	4.96E-02	TLR4	1
Cell-To-Cell Signaling and Interaction, Cellular Function and Maintenance, Inflammatory Response	phagocytosis of photoreceptors	4.96E-02	MYO7A	1
Cell Morphology, Hematological System Development and Function, Inflammatory Response	size of blood platelets	4.96E-02	IL4R	1

Supplementary Table S9

Supplementary Table S9: Gene signatures of Tolerance in Renal Biopsies.				
Probeset ID	Gene Symbol	Gene Title	p-value (Year 1 & 2 TOL vs. Year 1 & 2 nTOL)	Fold-Change (Year 1 & 2 TOL vs. Year 1 & 2 nTOL)
1561477_PM_at	CCDC144A	coiled-coil domain containing 144A	1.64E-05	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
207751_PM_at	EST1	EST1	1.69E-05	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1560119_PM_at	LOC389634	hypothetical LOC389634	2.03E-05	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1558523_PM_at	FAM184A	family with sequence similarity 184, member A	2.77E-05	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
233253_PM_at	EST2	EST2	2.96E-05	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
208176_PM_at	DUX1	double homeobox 1	3.58E-05	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
65585_PM_at	FAM86B1 /// FAM86C /// FAM86DP	family with sequence similarity 86, member B1 /// family with sequence similarity 86, m	4.31E-05	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
219997_PM_s_at	COPS7B	COP9 constitutive photomorphogenic homolog subunit 7B (Arabidopsis)	4.41E-05	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
229257_PM_at	TNRC18	trinucleotide repeat containing 18	4.86E-05	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
237284_PM_at	DNAJB8	DnaJ (Hsp40) homolog, subfamily B, member 8	5.63E-05	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
237325_PM_at	C22orf43	chromosome 22 open reading frame 43	6.04E-05	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
229312_PM_s_at	GKAP1	G kinase anchoring protein 1	6.46E-05	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1553027_PM_a_at	KLHL4	kelch-like 4 (Drosophila)	8.40E-05	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
33132_PM_at	CPSF1	cleavage and polyadenylation specific factor 1, 160kDa	9.07E-05	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1563792_PM_at	EST3	EST3	0.00012673	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
211377_PM_x_at	MYCN	v-myc myelocytomatosis viral related oncogene, neuroblastoma derived (avian)	0.00014296	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
203028_PM_s_at	CYBA	cytochrome b-245, alpha polypeptide	0.0001478	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
211702_PM_s_at	USP32	ubiquitin specific peptidase 32	0.00015166	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
238324_PM_at	GATAD2A	GATA zinc finger domain containing 2A	0.0001593	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1558373_PM_s_at	EST39	EST39	0.00016859	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
203335_PM_at	PHYH	phytanoyl-CoA 2-hydroxylase	0.00017244	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1561329_PM_s_at	RPUSD3	RNA pseudouridylate synthase domain containing 3	0.00018118	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
229227_PM_at	FLJ45244	hypothetical locus FLJ45244	0.00018264	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
228367_PM_at	ALPK2	alpha-kinase 2	0.00018702	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
244179_PM_x_at	GGT2	gamma-glutamyltransferase 2	0.00018795	Year 1 & 2 TOL up vs Year 1 & 2 nTOL

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1561293_PM_at	LOC100287584	Hypothetical protein LOC100287584	0.00019298	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
208751_PM_at	NAPA	N-ethylmaleimide-sensitive factor attachment protein, alpha	0.00020732	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
221784_PM_at	WIZ	widely interspaced zinc finger motifs	0.00021016	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
202407_PM_s_at	PRPF31	PRP31 pre-mRNA processing factor 31 homolog (<i>S. cerevisiae</i>)	0.00021437	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
238386_PM_x_at	EST40	EST40	0.00021511	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
201638_PM_s_at	CPSF1	cleavage and polyadenylation specific factor 1, 160kDa	0.00021774	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1562923_PM_at	EST4	EST4	0.00023199	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
237672_PM_at	EST41	EST41	0.00025509	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
243074_PM_at	EST5	EST5	0.00026492	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
207163_PM_s_at	AKT1	v-akt murine thymoma viral oncogene homolog 1	0.00028043	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
216641_PM_s_at	LAD1	ladinin 1	0.00028049	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
235191_PM_at	LOC148189	Hypothetical LOC148189	0.00028099	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
206848_PM_at	FAM36A /// HOXA7	family with sequence similarity 36, member A /// homeobox A7	0.00029678	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
214904_PM_at	ZNF41	zinc finger protein 41	0.00030231	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
205378_PM_s_at	ACHE	acetylcholinesterase	0.00030239	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
207548_PM_at	GRM7	glutamate receptor, metabotropic 7	0.00031552	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
240465_PM_at	C4orf32	chromosome 4 open reading frame 32	0.00031931	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1559048_PM_at	BAHCC1	BAH domain and coiled-coil containing 1	0.00032416	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
201391_PM_at	TRAP1	TNF receptor-associated protein 1	0.0003243	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
233141_PM_s_at	ST7L	suppression of tumorigenicity 7 like	0.00032524	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
226186_PM_at	TMOD2	tropomodulin 2 (neuronal)	0.00033536	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
227063_PM_at	C17orf61	chromosome 17 open reading frame 61	0.00033678	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
51200_PM_at	C19orf60	chromosome 19 open reading frame 60	0.00043507	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
205690_PM_s_at	BUD31	BUD31 homolog (<i>S. cerevisiae</i>)	0.00044293	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
243626_PM_at	EST6	EST6	0.00044546	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
239490_PM_at	C7orf44	chromosome 7 open reading frame 44	0.00046489	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
220951_PM_s_at	A1CF	APOBEC1 complementation factor	0.00047387	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1558001_PM_s_at	ARID5B	AT rich interactive domain 5B (MRF1-like)	0.00047627	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
224574_PM_at	C17orf49	chromosome 17 open reading frame 49	0.00048859	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
215707_PM_s_at	PRNP	prion protein	0.00050515	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1560841_PM_at	LOC389247	hypothetical LOC389247	0.00051116	Year 1 & 2 TOL up vs Year 1 & 2 nTOL

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1562793_PM_at	EST42	EST42	0.00052125	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
224810_PM_s_at	ANKRD13A	ankyrin repeat domain 13A	0.00052295	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
205760_PM_s_at	OGG1	8-oxoguanine DNA glycosylase	0.00053678	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
232333_PM_at	EST7	EST7	0.00053763	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
228035_PM_at	STK33	serine/threonine kinase 33	0.00054817	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
224082_PM_at	EST8	EST8	0.00054907	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
228552_PM_s_at	ISYNA1	inositol-3-phosphate synthase 1	0.00054955	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
212289_PM_at	ANKRD12	ankyrin repeat domain 12	0.00056509	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
212117_PM_at	RHOQ	ras homolog gene family, member Q	0.0005666	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
220233_PM_at	FBXO17 /// SARS2	F-box protein 17 /// seryl-tRNA synthetase 2, mitochondrial	0.00058109	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
218922_PM_s_at	LASS4	LAG1 homolog, ceramide synthase 4	0.00059362	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
227917_PM_at	FAM85A /// FAM85B	family with sequence similarity 85, member A /// family with sequence similarity 85, me	0.00059516	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
208699_PM_x_at	TKT	transketolase	0.00059824	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
206787_PM_at	BRDT	bromodomain, testis-specific	0.00060127	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
233915_PM_at	C5orf36	chromosome 5 open reading frame 36	0.00060463	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
236585_PM_at	EST9	EST9	0.00061396	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
236428_PM_at	EST43	EST43	0.0006141	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
1565705_PM_x_at	EST10	EST10	0.00062683	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
239727_PM_at	DIO3-OS	DIO3 opposite strand (non-protein coding)	0.0006322	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
218087_PM_s_at	SORBS1	sorbin and SH3 domain containing 1	0.00067516	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
222993_PM_at	MRPL37	mitochondrial ribosomal protein L37	0.00067751	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
207859_PM_s_at	CHRN3	cholinergic receptor, nicotinic, beta 3	0.00068301	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
218921_PM_at	LOC100294402 /// SIGIRR	single Ig IL-1-related receptor-like /// single immunoglobulin and toll-interleukin 1 r	0.00068385	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
214338_PM_at	DNAJB12	DnaJ (Hsp40) homolog, subfamily B, member 12	0.00069407	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
228910_PM_at	EST44	EST44	0.0007379	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
219872_PM_at	FAM198B	family with sequence similarity 198, member B	0.00074365	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
211890_PM_x_at	CAPN3	calpain 3, (p94)	0.00079718	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
212392_PM_s_at	PDE4DIP	phosphodiesterase 4D interacting protein	0.00081565	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
237786_PM_at	EST45	EST45	0.00083332	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
219398_PM_at	CIDEC	cell death-inducing DFFA-like effector c	0.00085919	Year 1 & 2 TOL down vs Year 1 & 2 nTOL

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223732_PM_at	SLC23A1	solute carrier family 23 (nucleobase transporters), member 1	0.00086864	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
218059_PM_at	ZNF706	zinc finger protein 706	0.00087922	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
204859_PM_s_at	APAF1	apoptotic peptidase activating factor 1	0.00088358	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
230790_PM_x_at	EST46	EST46	0.00089159	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
226896_PM_at	CHCHD1	coiled-coil-helix-coiled-coil-helix domain containing 1	0.00089218	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
205921_PM_s_at	SLC6A6	solute carrier family 6 (neurotransmitter transporter, taurine), member 6	0.00090881	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1553533_PM_at	JPH1	junctionophilin 1	0.00092636	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
229634_PM_at	TMEM139	transmembrane protein 139	0.00095947	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
206488_PM_s_at	CD36	CD36 molecule (thrombospondin receptor)	0.00096421	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
1570516_PM_s_at	OR51B5	olfactory receptor, family 51, subfamily B, member 5	0.00096679	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
215882_PM_at	CEP152	centrosomal protein 152kDa	0.00096951	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
207221_PM_at	F2RL3	coagulation factor II (thrombin) receptor-like 3	0.00097024	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
233375_PM_at	EFCAB2	EF-hand calcium binding domain 2	0.00097627	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
212960_PM_at	TBC1D9	TBC1 domain family, member 9 (with GRAM domain)	0.00098088	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
226435_PM_at	PAPLN	papilin, proteoglycan-like sulfated glycoprotein	0.001002	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
219521_PM_at	B3GAT1	beta-1,3-glucuronyltransferase 1 (glucuronosyltransferase P)	0.00100917	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
210824_PM_at	EST47	EST47	0.00102201	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
228873_PM_at	COL22A1	collagen, type XXII, alpha 1	0.00102618	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
235807_PM_at	EST48	EST48	0.00104541	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
214196_PM_s_at	TPP1	tripeptidyl peptidase I	0.00104754	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
221430_PM_s_at	RNF146	ring finger protein 146	0.00110149	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1554853_PM_at	CYP2U1	cytochrome P450, family 2, subfamily U, polypeptide 1	0.001103	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
224991_PM_at	CMIP	c-Maf-inducing protein	0.0011136	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
205074_PM_at	SLC22A5	solute carrier family 22 (organic cation/carnitine transporter), member 5	0.00111494	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
231916_PM_at	NOS1	nitric oxide synthase 1 (neuronal)	0.00114022	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
205181_PM_at	ZNF193	zinc finger protein 193	0.00114251	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
234924_PM_s_at	ZNF687	zinc finger protein 687	0.00114889	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
208726_PM_s_at	EIF2S2	eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa	0.0011597	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
213613_PM_s_at	NADK	NAD kinase	0.00117687	Year 1 & 2 TOL up vs Year 1 & 2 nTOL

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222625_PM_s_at	NDE1	nudE nuclear distribution gene E homolog 1 (A. nidulans)	0.00118124	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
204559_PM_s_at	LSM7	LSM7 homolog, U6 small nuclear RNA associated (S. cerevisiae)	0.00118768	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
244661_PM_at	SOAT1	sterol O-acyltransferase 1	0.0012324	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
241338_PM_at	EST49	EST49	0.00123628	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
223157_PM_at	C4orf14	chromosome 4 open reading frame 14	0.00124137	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
203100_PM_s_at	CDYL	chromodomain protein, Y-like	0.00126851	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
205511_PM_at	FLJ10038	hypothetical protein FLJ10038	0.00128698	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
239398_PM_at	KLHL31	kelch-like 31 (Drosophila)	0.0012887	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
228766_PM_at	CD36	CD36 molecule (thrombospondin receptor)	0.00130961	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
215764_PM_x_at	AP2A2	adaptor-related protein complex 2, alpha 2 subunit	0.00131612	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
203667_PM_at	TBCA	tubulin folding cofactor A	0.00133997	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
205572_PM_at	ANGPT2	angiopoietin 2	0.00134652	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
230799_PM_at	LOC100134259	similar to hCG1987718	0.0013564	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
211889_PM_x_at	CEACAM1	carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein)	0.00136732	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
224480_PM_s_at	AGPAT9	1-acylglycerol-3-phosphate O-acyltransferase 9	0.001374	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
218119_PM_at	TIMM23 /// TIMM23B	translocase of inner mitochondrial membrane 23 homolog (yeast) /// translocase of inner	0.00137566	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
201400_PM_at	PSMB3	proteasome (prosome, macropain) subunit, beta type, 3	0.00137653	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
228479_PM_at	SOAT1	sterol O-acyltransferase 1	0.00137665	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
243669_PM_s_at	PRAP1	proline-rich acidic protein 1	0.00139099	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
244018_PM_at	EST11	EST11	0.00139357	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1554250_PM_s_at	TRIM73	tripartite motif-containing 73	0.0014056	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
225001_PM_at	RAB3D	RAB3D, member RAS oncogene family	0.00141527	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
222750_PM_s_at	SRD5A3	steroid 5 alpha-reductase 3	0.00144178	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
200714_PM_x_at	OS9	osteosarcoma amplified 9, endoplasmic reticulum lectin	0.00144868	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
240846_PM_at	PCBD2	pterin-4 alpha-carbinolamine dehydratase/dimerization cofactor of hepatocyte nuclear fa	0.00148018	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
228912_PM_at	VIL1	villin 1	0.00148129	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
226536_PM_at	NSMCE2	non-SMC element 2, MMS21 homolog (S. cerevisiae)	0.00149445	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
214928_PM_at	OBSL1	obscurin-like 1	0.00150944	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
205710_PM_at	LRP2	low density lipoprotein receptor-related protein 2	0.00152531	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
202382_PM_s_at	GNPDA1	glucosamine-6-phosphate deaminase 1	0.00152602	Year 1 & 2 TOL up vs Year 1 & 2 nTOL

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229608_PM_at	C1orf183	chromosome 1 open reading frame 183	0.0015371	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
236829_PM_at	EST50	EST50	0.00153879	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
234733_PM_s_at	FANCM	Fanconi anemia, complementation group M	0.00154143	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
211089_PM_s_at	NEK3	NIMA (never in mitosis gene a)-related kinase 3	0.00154256	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
239242_PM_at	LOC100303728	hypothetical LOC100303728	0.00154375	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
213100_PM_at	UNC5B	unc-5 homolog B (C. elegans)	0.0015596	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1553701_PM_a_at	DUSP18	dual specificity phosphatase 18	0.00156368	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1568619_PM_s_at	ITPRIPL2	inositol 1,4,5-triphosphate receptor interacting protein-like 2	0.00157596	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
212681_PM_at	EPB41L3	erythrocyte membrane protein band 4.1-like 3	0.00157847	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
215673_PM_at	TEF	thyrotrophic embryonic factor	0.0015982	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
203818_PM_s_at	SF3A3	splicing factor 3a, subunit 3, 60kDa	0.00159923	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
224293_PM_at	TTY10	testis-specific transcript, Y-linked 10 (non-protein coding)	0.00160226	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1558561_PM_at	HM13	histocompatibility (minor) 13	0.00160925	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1561450_PM_at	EST51	EST51	0.00161577	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
220119_PM_at	EPB41L4A	erythrocyte membrane protein band 4.1 like 4A	0.00163113	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1556508_PM_s_at	EST52	EST52	0.00164185	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
225923_PM_at	VAPB	VAMP (vesicle-associated membrane protein)-associated protein B and C	0.00164538	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
207768_PM_at	EGR4	early growth response 4	0.00165347	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
205076_PM_s_at	MTMR11	myotubularin related protein 11	0.00166796	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
237150_PM_at	EST53	EST53	0.0016682	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
211055_PM_s_at	INVS	inversin	0.00167418	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
205816_PM_at	ITGB8	integrin, beta 8	0.00168374	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
210474_PM_s_at	CDK11A /// CDK11B	cyclin-dependent kinase 11A /// cyclin-dependent kinase 11B	0.00168769	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
50376_PM_at	ZNF444	zinc finger protein 444	0.00170278	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
234356_PM_at	DKFZP434K028	hypothetical LOC26070	0.00172962	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
210565_PM_at	GCGR	glucagon receptor	0.00174191	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
1554311_PM_a_at	SUPT6H	suppressor of Ty 6 homolog (S. cerevisiae)	0.0017609	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
208052_PM_x_at	CEACAM3	carcinoembryonic antigen-related cell adhesion molecule 3	0.00176364	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
218505_PM_at	WDR59	WD repeat domain 59	0.00180695	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
215190_PM_at	EIF3M	eukaryotic translation initiation factor 3, subunit M	0.00183717	Year 1 & 2 TOL down vs Year 1 & 2 nTOL

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204895_PM_x_at	MUC4	mucin 4, cell surface associated	0.00184386	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
226211_PM_at	MEG3	maternally expressed 3 (non-protein coding)	0.0018551	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
33778_PM_at	TBC1D22A	TBC1 domain family, member 22A	0.00189263	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
223723_PM_at	MFI2	antigen p97 (melanoma associated) identified by monoclonal antibodies 133.2 and 96.5	0.00189376	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
224327_PM_s_at	DGAT2	diacylglycerol O-acyltransferase 2	0.00195681	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
200836_PM_s_at	MAP4	microtubule-associated protein 4	0.00196386	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
219214_PM_s_at	NT5C	5', 3'-nucleotidase, cytosolic	0.00197573	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
243124_PM_at	RRN3P2	RNA polymerase I transcription factor homolog (<i>S. cerevisiae</i>) pseudogene 2	0.00198325	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
235280_PM_at	EST12	EST12	0.00198493	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
237553_PM_at	LZTFL1	leucine zipper transcription factor-like 1	0.00200863	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
226899_PM_at	UNC5B	unc-5 homolog B (<i>C. elegans</i>)	0.00201054	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
230863_PM_at	LRP2	low density lipoprotein receptor-related protein 2	0.00202239	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1569779_PM_at	EST54	EST54	0.00202858	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
1556809_PM_a_at	EST13	EST13	0.00203754	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
209884_PM_s_at	SLC4A7	solute carrier family 4, sodium bicarbonate cotransporter, member 7	0.00207084	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
232350_PM_x_at	GPR161	G protein-coupled receptor 161	0.00208574	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
239594_PM_at	LOC145837	hypothetical LOC145837	0.00208786	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
206066_PM_s_at	RAD51C	RAD51 homolog C (<i>S. cerevisiae</i>)	0.00210563	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1561455_PM_at	LOC284294	hypothetical LOC284294	0.00210885	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
221193_PM_s_at	ZCCHC10	zinc finger, CCHC domain containing 10	0.00212496	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1563263_PM_at	PLCG2	Phospholipase C, gamma 2 (phosphatidylinositol-specific)	0.00213111	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
203364_PM_s_at	ATG13	ATG13 autophagy related 13 homolog (<i>S. cerevisiae</i>)	0.00214761	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
220974_PM_x_at	SFXN3	sideroflexin 3	0.00214999	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1561085_PM_at	LOC153910	hypothetical LOC153910	0.00219102	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
1553811_PM_at	MGC14436	hypothetical LOC84983	0.00222019	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
1553107_PM_s_at	C5orf24	chromosome 5 open reading frame 24	0.00223729	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
209393_PM_s_at	EIF4E2	eukaryotic translation initiation factor 4E family member 2	0.00223798	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1553914_PM_at	MGC34800	hypothetical protein MGC34800	0.00223994	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
1552792_PM_at	SOCS4	suppressor of cytokine signaling 4	0.00226861	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
224992_PM_s_at	CMIP	c-Maf-inducing protein	0.00228782	Year 1 & 2 TOL up vs Year 1 & 2 nTOL

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221256_PM_s_at	HDHD3	haloacid dehalogenase-like hydrolase domain containing 3	0.00228967	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
213069_PM_at	HEG1	HEG homolog 1 (zebrafish)	0.00229408	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
200606_PM_at	DSP	desmoplakin	0.00230131	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
236516_PM_at	EST14	EST14	0.0023119	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
244486_PM_at	EST55	EST55	0.00234764	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
230312_PM_at	EST15	EST15	0.00235466	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1554747_PM_a_at	2-Sep	septin 2	0.00235856	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
225077_PM_at	CHD2	chromodomain helicase DNA binding protein 2	0.00237477	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
231008_PM_at	UNC5CL	unc-5 homolog C (C. elegans)-like	0.00239479	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
224903_PM_at	CIRH1A	cirrhosis, autosomal recessive 1A (cirhin)	0.00239524	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
238030_PM_at	ZNF268	zinc finger protein 268	0.00240235	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
229321_PM_s_at	EST56	EST56	0.00244441	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
219442_PM_at	KIAA0664L3	KIAA0664-like 3	0.00244988	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
239860_PM_at	LOC100130232	LP2209	0.00250583	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
221996_PM_s_at	CLTB	Clathrin, light chain (Lcb)	0.00251555	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
219639_PM_x_at	PARP6	poly (ADP-ribose) polymerase family, member 6	0.00252406	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
205326_PM_at	RAMP3	receptor (G protein-coupled) activity modifying protein 3	0.00252896	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
222900_PM_at	NRIP3	nuclear receptor interacting protein 3	0.00256548	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
202244_PM_at	PSMB4	proteasome (prosome, macropain) subunit, beta type, 4	0.00257101	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
229534_PM_at	ACOT4	acyl-CoA thioesterase 4	0.00257804	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
202507_PM_s_at	SNAP25	synaptosomal-associated protein, 25kDa	0.00257898	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
214154_PM_s_at	PKP2	plakophilin 2	0.00260832	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
206092_PM_x_at	RTEL1	regulator of telomere elongation helicase 1	0.00262931	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
218457_PM_s_at	DNMT3A	DNA (cytosine-5-)-methyltransferase 3 alpha	0.00263768	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
201676_PM_x_at	PSMA1	proteasome (prosome, macropain) subunit, alpha type, 1	0.00264692	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1570014_PM_at	EST57	EST57	0.00266298	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
236545_PM_at	EST16	EST16	0.00268014	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
220715_PM_at	EST17	EST17	0.00270486	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
212155_PM_at	RNF187	ring finger protein 187	0.00270943	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1570292_PM_at	EST18	EST18	0.00273218	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
203979_PM_at	CYP27A1	cytochrome P450, family 27, subfamily A, polypeptide 1	0.0027481	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
239276_PM_at	EST19	EST19	0.00276626	Year 1 & 2 TOL up vs Year 1 & 2 nTOL

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228900_PM_at	SPECC1	sperm antigen with calponin homology and coiled-coil domains 1	0.0027884	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
239302_PM_s_at	LOC100506922	hypothetical LOC100506922	0.00278892	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
220657_PM_at	KLHL11	kelch-like 11 (Drosophila)	0.00280548	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
216161_PM_at	SBNO1	strawberry notch homolog 1 (Drosophila)	0.00280758	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
235774_PM_at	LOC100422737	hypothetical LOC100422737	0.00281203	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
209399_PM_at	HLCS	holocarboxylase synthetase (biotin-(propionyl-CoA-carboxylase (ATP-hydrolysing)) ligase	0.00284752	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
238834_PM_at	MYLK3	myosin light chain kinase 3	0.00286037	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
205740_PM_s_at	RBM42	RNA binding motif protein 42	0.00286259	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
224107_PM_at	EST58	EST58	0.00286967	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
236471_PM_at	NFE2L3	nuclear factor (erythroid-derived 2)-like 3	0.00291372	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
1566215_PM_at	EST59	EST59	0.00291776	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
233197_PM_at	KLHL9	kelch-like 9 (Drosophila)	0.00295388	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
238485_PM_at	EST20	EST20	0.00295394	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
239940_PM_at	EST60	EST60	0.00295839	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
211871_PM_x_at	GNB5	guanine nucleotide binding protein (G protein), beta 5	0.00297625	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
234026_PM_at	EML2	Echinoderm microtubule associated protein like 2	0.00298744	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
235873_PM_at	EST61	EST61	0.00301579	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
215384_PM_s_at	MAP1A	microtubule-associated protein 1A	0.00303754	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
241691_PM_at	SCARF2	Scavenger receptor class F, member 2	0.00305567	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
235204_PM_at	ENTPD7	ectonucleoside triphosphate diphosphohydrolase 7	0.00305821	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
234393_PM_at	HDAC9	histone deacetylase 9	0.00309992	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
220867_PM_s_at	SLC24A2	solute carrier family 24 (sodium/potassium/calcium exchanger), member 2	0.00312303	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
233603_PM_at	EST62	EST62	0.00313967	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
240845_PM_at	EST21	EST21	0.00314159	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
225825_PM_at	C20orf194	chromosome 20 open reading frame 194	0.00315091	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
202313_PM_at	PPP2R2A	protein phosphatase 2, regulatory subunit B, alpha	0.0031602	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1552884_PM_at	NKX6-3	NK6 homeobox 3	0.00316776	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
209667_PM_at	CES2	carboxylesterase 2	0.00317205	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
220100_PM_at	SLC22A11	solute carrier family 22 (organic anion/urate transporter), member 11	0.00318528	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
233407_PM_at	EST63	EST63	0.00318607	Year 1 & 2 TOL down vs Year 1 & 2 nTOL

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206496_PM_at	FMO3	flavin containing monooxygenase 3	0.00318986	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
201201_PM_at	CSTB	cystatin B (stefin B)	0.0032311	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
208220_PM_x_at	AMELY	amelogenin, Y-linked	0.00324387	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
208034_PM_s_at	PROZ	protein Z, vitamin K-dependent plasma glycoprotein	0.00324583	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
220192_PM_x_at	SPDEF	SAM pointed domain containing ets transcription factor	0.00324758	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
230239_PM_at	ROCK1	Rho-associated, coiled-coil containing protein kinase 1	0.00324994	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
206287_PM_s_at	ITIH4 /// MUSTN1	inter-alpha (globulin) inhibitor H4 (plasma Kallikrein-sensitive glycoprotein) /// musc	0.00325111	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1556131_PM_s_at	FBF1	Fas (TNFRSF6) binding factor 1	0.00326308	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
240052_PM_at	ITPR1	inositol 1,4,5-triphosphate receptor, type 1	0.00326887	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
239492_PM_at	SEC14L4	SEC14-like 4 (<i>S. cerevisiae</i>)	0.00327576	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
52940_PM_at	LOC100294402 /// SIGIRR	single Ig IL-1-related receptor-like /// single immunoglobulin and toll-interleukin 1 r	0.00327783	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
214080_PM_x_at	PRKCSH	protein kinase C substrate 80K-H	0.0032947	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
202052_PM_s_at	RAI14	retinoic acid induced 14	0.00330028	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
213695_PM_at	PON3	paraoxonase 3	0.00330079	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
206709_PM_x_at	GPT	glutamic-pyruvate transaminase (alanine aminotransferase)	0.00330969	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
236958_PM_at	EST22	EST22	0.00331128	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1558522_PM_at	EST23	EST23	0.00331322	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
213649_PM_at	SRSF7	serine/arginine-rich splicing factor 7	0.0033427	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
221613_PM_s_at	ZFAND6	zinc finger, AN1-type domain 6	0.00336452	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
226318_PM_at	TBRG1	transforming growth factor beta regulator 1	0.0033818	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
201233_PM_at	PSMD13	proteasome (prosome, macropain) 26S subunit, non-ATPase, 13	0.00338345	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
238722_PM_x_at	NAPEPLD	N-acyl phosphatidylethanolamine phospholipase D	0.0033886	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
228391_PM_at	CYP4V2	cytochrome P450, family 4, subfamily V, polypeptide 2	0.0033905	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1559134_PM_a_at	EST64	EST64	0.0034104	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
1557879_PM_at	LOC100129175	hypothetical protein LOC100129175	0.0034353	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1555827_PM_at	CCNL1	Cyclin L1	0.00345117	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
204458_PM_at	PLA2G15	phospholipase A2, group XV	0.00345247	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1557866_PM_at	C9orf117	chromosome 9 open reading frame 117	0.00346124	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
208708_PM_x_at	EIF5	eukaryotic translation initiation factor 5	0.00346251	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
219424_PM_at	EBI3	Epstein-Barr virus induced 3	0.00346702	Year 1 & 2 TOL up vs Year 1 & 2 nTOL

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204106_PM_at	TESK1	testis-specific kinase 1	0.00347243	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
229241_PM_at	LDHD	lactate dehydrogenase D	0.00349349	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
217527_PM_s_at	NFATC2IP	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 interacting p	0.00350053	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
241396_PM_at	NEDD4L	neural precursor cell expressed, developmentally down-regulated 4-like	0.00352365	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
216985_PM_s_at	STX3	syntaxin 3	0.00353648	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
224181_PM_at	C18orf2	chromosome 18 open reading frame 2	0.00355255	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
229567_PM_at	FITM1	fat storage-inducing transmembrane protein 1	0.00355738	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
202397_PM_at	NUTF2	nuclear transport factor 2	0.00356312	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
237798_PM_at	EST24	EST24	0.00356866	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
208680_PM_at	PRDX1	peroxiredoxin 1	0.00358856	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
243200_PM_at	EST25	EST25	0.00359117	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
235971_PM_at	EST65	EST65	0.00359165	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
207131_PM_x_at	GGT1	gamma-glutamyltransferase 1	0.00365208	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
221181_PM_at	EST26	EST26	0.00365481	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1552493_PM_s_at	CYP11B1	cytochrome P450, family 11, subfamily B, polypeptide 1	0.00365982	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
233198_PM_at	GOLGA2B	golgin A2 family, member B	0.00366258	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
218847_PM_at	IGF2BP2	insulin-like growth factor 2 mRNA binding protein 2	0.003665	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
215366_PM_at	SNX13	sorting nexin 13	0.00367119	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
200617_PM_at	MLEC	malectin	0.00367585	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1564333_PM_a_at	PSAPL1	prosaposin-like 1 (gene/pseudogene)	0.00367627	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
231544_PM_s_at	POLR3G	Polymerase (RNA) III (DNA directed) polypeptide G (32kD)	0.00367651	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
214832_PM_at	HNF4A	hepatocyte nuclear factor 4, alpha	0.00369829	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
204970_PM_s_at	MAFG	v-maf musculoaponeurotic fibrosarcoma oncogene homolog G (avian)	0.00370231	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
228295_PM_at	WDR59	WD repeat domain 59	0.00370884	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
209875_PM_s_at	SPP1	secreted phosphoprotein 1	0.00371611	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
203433_PM_at	MTHFS	5,10-methenyltetrahydrofolate synthetase (5-formyltetrahydrofolate cyclo-ligase)	0.00371882	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
227962_PM_at	ACOX1	acyl-CoA oxidase 1, palmitoyl	0.00371972	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
236651_PM_at	KALRN	kalirin, RhoGEF kinase	0.00372075	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
211119_PM_at	ESR2	estrogen receptor 2 (ER beta)	0.00375497	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
1563009_PM_at	LOC284930	Hypothetical protein LOC284930	0.00377058	Year 1 & 2 TOL up vs Year 1 & 2 nTOL

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234228_PM_at	EST66	EST66	0.00382554	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
205082_PM_s_at	AOX1	aldehyde oxidase 1	0.00383734	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
204981_PM_at	SLC22A18	solute carrier family 22, member 18	0.00386069	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
215255_PM_at	IGSF9B	immunoglobulin superfamily, member 9B	0.00386658	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
235326_PM_at	EST27	EST27	0.00390513	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
206102_PM_at	GIN51	GIN5 complex subunit 1 (Psf1 homolog)	0.00390538	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
224232_PM_s_at	PRELID1	PRELI domain containing 1	0.00392309	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
243961_PM_at	EST67	EST67	0.00392503	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
204622_PM_x_at	NR4A2	nuclear receptor subfamily 4, group A, member 2	0.00393115	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
231782_PM_s_at	KLK4	kallikrein-related peptidase 4	0.00396928	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
211983_PM_x_at	ACTG1	actin, gamma 1	0.003984	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
211717_PM_at	ANKRD40	ankyrin repeat domain 40	0.00401368	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
204020_PM_at	PURA	purine-rich element binding protein A	0.00403596	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1570409_PM_x_at	EST28	EST28	0.00403738	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
213314_PM_at	C6orf162	chromosome 6 open reading frame 162	0.00404059	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
205455_PM_at	MST1R	macrophage stimulating 1 receptor (c-met-related tyrosine kinase)	0.0040499	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
223623_PM_at	C2orf40	chromosome 2 open reading frame 40	0.00405875	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1569609_PM_at	EST68	EST68	0.00407173	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
215155_PM_at	HEXA	Hexosaminidase A (alpha polypeptide)	0.00408467	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
215960_PM_at	SLC5A4	solute carrier family 5 (low affinity glucose cotransporter), member 4	0.00408836	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
200663_PM_at	CD63	CD63 molecule	0.00409939	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
232203_PM_at	EST69	EST69	0.00410659	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
217720_PM_at	CHCHD2	coiled-coil-helix-coiled-coil-helix domain containing 2	0.00410707	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
223509_PM_at	CLDN2	claudin 2	0.00415727	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
240211_PM_at	LOC100130468	hypothetical protein LOC100130468	0.00416463	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
207593_PM_at	ABCG4	ATP-binding cassette, sub-family G (WHITE), member 4	0.00418213	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
221675_PM_s_at	CHPT1	choline phosphotransferase 1	0.00419774	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
235607_PM_at	EST70	EST70	0.00420179	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
211631_PM_x_at	B4GALT1	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 1	0.00420723	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
212405_PM_s_at	METTL13	methyltransferase like 13	0.00420754	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1556568_PM_a_at	EST29	EST29	0.00422423	Year 1 & 2 TOL up vs Year 1 & 2 nTOL

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228635_PM_at	PCDH10	protocadherin 10	0.00424124	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
219575_PM_s_at	COG8 /// PDF	component of oligomeric golgi complex 8 /// peptide deformylase (mitochondrial)	0.00424152	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
213826_PM_s_at	EST71	EST71	0.00424445	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
240666_PM_at	EST30	EST30	0.00424461	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
224814_PM_at	DPP7	dipeptidyl-peptidase 7	0.00424795	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1559034_PM_at	SIRPB2	signal-regulatory protein beta 2	0.00425627	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
224209_PM_s_at	GDA	guanine deaminase	0.00426225	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
207672_PM_at	EST72	EST72	0.00428931	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
217282_PM_at	MAN1A2	mannosidase, alpha, class 1A, member 2	0.00429463	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
201106_PM_at	GPX4	glutathione peroxidase 4 (phospholipid hydroperoxidase)	0.00432	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1555989_PM_at	EST31	EST31	0.00432781	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
204264_PM_at	CPT2	carnitine palmitoyltransferase 2	0.00432798	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
228823_PM_at	POLR2J2	polymerase (RNA) II (DNA directed) polypeptide J2	0.00432975	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
214423_PM_x_at	ALDOB	Aldolase B, fructose-bisphosphate	0.00434112	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1562443_PM_at	CLVS2	clavesin 2	0.00434115	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
243781_PM_at	EST32	EST32	0.00435813	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
201894_PM_s_at	SSR1	signal sequence receptor, alpha	0.00438517	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
214475_PM_x_at	CAPN3	calpain 3, (p94)	0.00438834	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1566680_PM_at	EST33	EST33	0.00443373	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
207858_PM_s_at	PKLR	pyruvate kinase, liver and RBC	0.0044341	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1556096_PM_s_at	UNC13C	unc-13 homolog C (C. elegans)	0.00444295	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
201639_PM_s_at	CPSF1	cleavage and polyadenylation specific factor 1, 160kDa	0.00446419	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
218510_PM_x_at	FAM134B	family with sequence similarity 134, member B	0.00447801	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
209605_PM_at	TST	thiosulfate sulfurtransferase (rhodanese)	0.00450448	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
208911_PM_s_at	PDHB	pyruvate dehydrogenase (lipoamide) beta	0.0045129	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
235487_PM_at	LOC100506701	hypothetical LOC100506701	0.00452095	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
206739_PM_at	HOXC5	homeobox C5	0.00452343	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1560846_PM_at	EST34	EST34	0.0045256	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
224725_PM_at	MIB1	mindbomb homolog 1 (Drosophila)	0.00453677	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
201805_PM_at	PRKAG1	protein kinase, AMP-activated, gamma 1 non-catalytic subunit	0.00456613	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
229042_PM_s_at	DYNC1H1	dynein, cytoplasmic 1, heavy chain 1	0.00456864	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1558608_PM_a_at	PAPPA	pregnancy-associated plasma protein A, pappalysin 1	0.00457164	Year 1 & 2 TOL up vs Year 1 & 2 nTOL

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237156_PM_at	EST73	EST73	0.00458361	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
225989_PM_at	HERC4	hect domain and RLD 4	0.00458536	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
202432_PM_at	PPP3CB	protein phosphatase 3, catalytic subunit, beta isozyme	0.00458873	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
224920_PM_x_at	MYADM	myeloid-associated differentiation marker	0.00459688	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
237396_PM_at	EST35	EST35	0.00459995	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
237571_PM_at	EST74	EST74	0.00462819	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
234266_PM_at	EST36	EST36	0.00464735	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1557189_PM_at	DNASE1	deoxyribonuclease I	0.00465611	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
236025_PM_at	NCOR2	nuclear receptor corepressor 2	0.0047071	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
237620_PM_at	ODF3L2	outer dense fiber of sperm tails 3-like 2	0.00472631	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
221047_PM_s_at	MARK1	MAP/microtubule affinity-regulating kinase 1	0.00477089	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
236294_PM_at	HUWE1	HECT, UBA and WWE domain containing 1	0.00477946	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
218002_PM_s_at	CXCL14	chemokine (C-X-C motif) ligand 14	0.00479114	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
236416_PM_at	ARHGEF7	Rho guanine nucleotide exchange factor (GEF) 7	0.00482108	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
204555_PM_s_at	PPP1R3D	protein phosphatase 1, regulatory (inhibitor) subunit 3D	0.00484097	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
236598_PM_at	EST37	EST37	0.00487855	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
205307_PM_s_at	KMO	kynurenine 3-monooxygenase (kynurenine 3-hydroxylase)	0.00489271	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
218112_PM_at	MRPS34	mitochondrial ribosomal protein S34	0.00491629	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
236080_PM_at	LOC100507670	hypothetical LOC100507670	0.00494748	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1555203_PM_s_at	SLC44A4	solute carrier family 44, member 4	0.00495487	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
230830_PM_at	OSTBETA	organic solute transporter beta	0.00496926	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
225494_PM_at	EST38	EST38	0.00497259	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
206963_PM_s_at	NAT8 /// NAT8B	N-acetyltransferase 8 (GCN5-related, putative) /// N-acetyltransferase 8B (GCN5-related)	0.00498266	Year 1 & 2 TOL up vs Year 1 & 2 nTOL
1553319_PM_at	OXGR1	oxoglutarate (alpha-ketoglutarate) receptor 1	0.00498266	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
216147_PM_at	EST75	EST75	0.00499435	Year 1 & 2 TOL down vs Year 1 & 2 nTOL
211196_PM_at	DBT	dihydrolipoamide branched chain transacylase E2	0.00499702	Year 1 & 2 TOL up vs Year 1 & 2 nTOL