

Supplementary Table 1 Complete List of Genes Meeting One-Way ANOVA, p-value 0.0005

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
7959786a	8.70E-07	1.23	down	1.23	up	1.11	down	1.34	down	AACS
7989953a	3.92E-07	1.08	up	1.31	down	1.23	up	1.42	down	AAGAB
8058914a	2.95E-09	1.35	up	1.39	up	1.20	up	1.27	down	AAMP
8015741a	4.57E-05	1.09	down	1.42	up	1.07	down	1.59	down	AARSD1
7943552a	7.18E-07	1.05	down	1.40	up	1.16	down	1.18	down	AASDHPPT;KBTBD3
8006690a	5.78E-09	1.17	up	1.47	up	1.30	up	1.79	down	AATF
8132743a	1.47E-05	1.01	up	1.03	up	1.01	up	1.14	up	ABCA13
8018038a	7.13E-08	1.40	up	1.03	down	2.32	up	1.83	down	ABCA5
8137310a	5.18E-05	1.05	down	1.30	up	1.02	up	1.05	down	ABCB8
7967337a	4.99E-05	1.23	up	1.16	up	1.35	up	1.15	up	ABCB9
7929779a	1.50E-05	1.30	up	1.10	down	1.13	up	1.40	up	ABCC2
8008454a	1.12E-05	1.48	up	1.81	down	2.37	up	1.47	up	ABCC3
8092418a	2.99E-05	1.03	up	1.72	up	1.13	up	1.29	down	ABCC5
7961710a	1.19E-05	1.04	down	1.25	up	1.03	down	1.27	up	ABCC9
8170704a	6.00E-06	1.14	up	1.72	down	1.10	up	1.68	up	ABCD1
8179112a	6.84E-08	1.39	up	1.20	up	1.32	up	1.02	down	ABCF1
8143905a	9.53E-06	1.12	down	1.31	up	1.14	down	1.24	down	ABCF2
8084360a	1.59E-05	1.13	up	1.37	up	1.08	up	1.26	down	ABCF3
8101675a	4.56E-08	1.03	up	1.23	up	1.03	down	3.20	up	ABCG2
8065469a	1.98E-08	1.95	down	1.05	up	1.94	down	1.23	up	ABHD12
8087825a	1.68E-06	1.18	up	1.31	down	1.09	up	1.22	up	ABHD14B
8013919a	4.81E-07	1.18	up	1.10	up	1.18	up	1.30	down	ABHD15
7985809a	2.68E-06	1.01	down	1.54	down	1.03	down	1.06	up	ABHD2
8022488a	2.38E-05	1.14	up	1.04	up	1.41	up	1.28	down	ABHD3
7973306a	7.90E-05	1.07	down	1.56	down	1.18	down	1.45	up	ABHD4
8047659a	6.19E-07	1.25	up	1.10	down	1.32	up	1.06	up	ABI2
8089145a	1.12E-09	1.77	up	6.03	down	5.09	up	5.22	up	ABI3BP
7922610a	9.39E-08	1.15	down	1.06	down	1.44	down	1.34	up	ABL2
7936463a	1.35E-05	1.33	down	2.34	down	1.65	down	1.52	up	ABLIM1
8109093a	2.37E-07	1.05	down	1.40	down	1.26	up	2.52	up	ABLIM3
8010983a	2.33E-07	1.21	up	1.33	down	1.35	up	1.03	down	ABR
8117522a	3.88E-06	1.27	up	1.05	up	1.26	up	1.00	down	ABT1
8014487a	2.91E-06	1.19	up	1.34	up	1.33	up	1.50	down	ACACA
7959220a	1.82E-05	1.11	up	1.17	up	1.33	up	1.10	down	ACADS
7931168a	1.17E-05	1.06	down	1.62	up	1.20	up	1.13	down	ACADSB
8092933a	2.44E-05	1.09	up	1.12	up	1.27	up	1.42	down	ACAP2
7943605a	2.05E-05	1.30	down	1.24	up	1.30	down	1.05	down	ACAT1
8007730a	6.40E-06	1.10	up	1.23	up	1.13	up	1.40	down	ACBD4
8015460a	6.99E-06	1.09	down	1.48	up	1.20	down	1.41	down	ACLY
7975598a	9.20E-06	1.51	up	1.23	down	1.02	down	1.16	up	ACOT1
8117219a	2.45E-05	1.38	up	1.11	down	1.53	up	1.01	up	ACOT13
7975602a	1.16E-06	1.64	up	1.71	down	1.20	up	1.19	up	ACOT2
7975607a	6.94E-06	1.28	down	1.11	down	1.90	down	1.15	up	ACOT4
8044353a	6.50E-07	1.07	down	1.25	up	1.08	down	1.09	up	ACOXL
8039961a	3.99E-07	1.15	up	1.30	down	1.29	up	1.23	up	ACP1
8083075a	3.08E-06	1.43	down	1.16	up	1.66	down	2.66	up	ACPL2
7997863a	3.07E-06	1.16	up	1.31	up	1.34	up	1.29	down	ACSF3
8174474a	1.45E-05	1.09	up	1.47	down	1.06	down	1.03	down	ACSL4
7957386a	1.15E-05	2.84	up	2.03	up	1.10	up	1.08	up	ACSS3
8019183a	2.41E-05	1.01	down	1.05	down	1.05	down	1.08	up	ACTG1
8028524a	2.65E-05	1.08	down	1.01	down	1.15	down	1.08	up	ACTN4
7974587a	6.91E-06	1.03	down	1.45	down	1.08	down	1.32	up	ACTR10

Transcript ID	Arsenic			Chromium		Nickel		Vanadium		Gene Symbol
	p-value	Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8056005a	7.16E-11	1.87	up	1.31	down	1.54	up	1.41	up	ACVR1
8045587a	3.13E-05	2.84	up	1.75	up	1.33	up	1.44	up	ACVR2A
8066431a	1.33E-09	1.06	up	1.82	down	1.51	up	2.07	up	ADA
7989224a	8.41E-05	1.01	down	1.29	down	1.12	down	1.27	down	ADAM10
8007675a	3.85E-05	1.10	up	1.01	up	1.24	up	1.22	down	ADAM11
7936968a	2.34E-07	2.10	down	2.92	down	2.65	down	4.14	up	ADAM12
8050190a	2.53E-06	1.27	up	1.21	down	1.16	up	1.54	up	ADAM17
8150395a	2.00E-05	1.09	up	1.18	down	1.06	up	1.04	down	ADAM2
8146024a	4.37E-08	1.06	down	2.04	down	2.06	down	1.85	up	ADAM32
8146000a	2.68E-07	1.22	down	1.48	down	1.23	down	1.46	up	ADAM9
8069676a	6.19E-07	1.70	up	28.80	up	1.70	down	1.65	down	ADAMTS1
8111387a	5.50E-05	1.13	down	1.34	down	2.64	down	1.81	up	ADAMTS12
8104321a	2.82E-07	1.42	down	1.40	up	1.27	down	2.35	up	ADAMTS16
8100870a	1.93E-07	1.46	down	2.12	down	5.07	down	1.09	down	ADAMTS3
8069689a	2.81E-05	1.71	down	6.98	up	2.20	down	1.13	down	ADAMTS5
8154491a	3.96E-07	1.49	down	1.11	up	5.12	down	2.07	up	ADAMTSL1
8154512a	4.40E-09	1.33	down	1.05	down	2.65	down	1.59	up	ADAMTSL1
7985522a	2.13E-07	1.89	down	3.96	down	2.18	down	1.52	up	ADAMTSL3
8006214a	4.90E-08	1.05	up	1.16	up	1.27	up	1.32	down	ADAP2
8069178a	1.63E-08	2.12	up	2.38	up	1.34	up	2.49	down	ADARB1
8002904a	1.60E-06	1.02	up	1.33	down	1.02	down	1.45	up	ADAT1
8136591a	8.08E-06	1.24	up	1.13	up	1.89	up	1.25	down	ADCK2
7995492a	3.60E-06	1.06	up	1.22	down	1.02	up	1.76	up	ADCY7
7999079a	1.23E-08	1.27	down	1.45	down	1.37	down	1.50	up	ADCY9
7930380a	2.48E-05	1.20	down	1.53	down	1.33	down	1.38	up	ADD3
8101844a	1.61E-08	1.19	up	1.50	down	1.15	up	1.18	up	ADH5
8050071a	5.82E-07	1.23	up	1.72	down	1.04	up	1.33	up	ADI1
7938390a	6.66E-06	1.05	down	2.88	up	1.67	down	1.31	down	ADM
8071899a	4.36E-06	1.39	up	1.16	up	1.59	up	1.31	down	ADORA2A;CYTSA
7900087a	5.27E-05	1.24	up	1.26	up	1.01	down	1.16	down	ADPRHL2
8063893a	7.74E-05	1.23	up	1.30	up	1.28	up	1.01	down	ADRM1
7977273a	3.77E-05	1.46	up	1.03	down	1.40	up	1.13	up	ADSSL1
8099259a	8.38E-06	1.08	down	1.57	down	1.23	down	1.52	up	AFAP1
7936439a	7.81E-07	2.19	down	1.30	up	2.26	down	1.10	up	AFAP1L2
7998083a	9.80E-08	1.17	up	1.22	up	1.36	up	1.13	down	AFG3L1
8103834a	2.10E-05	1.48	up	1.08	up	1.09	up	1.22	down	AGA
8137381a	1.65E-06	1.17	down	1.18	up	1.14	down	1.04	down	AGAP3
7933574a	1.52E-06	1.40	down	1.22	up	1.38	down	1.05	down	AGAP4-10;LOC100294038
7947947a	2.67E-07	1.39	up	1.18	down	1.26	up	1.13	down	AGBL2
8040774a	2.24E-07	1.30	up	1.02	up	1.65	up	1.01	down	AGBL5
8048847a	2.07E-06	1.16	up	1.06	up	1.17	up	1.07	down	AGFG1
8106429a	7.32E-05	1.01	up	1.13	down	1.04	up	1.48	up	AGGF1
7912659a	1.15E-07	1.31	up	1.22	up	1.75	down	2.18	down	AGMAT
8179958a	7.15E-07	1.36	up	1.01	down	1.46	up	1.20	up	AGPAT1
8068952a	1.15E-06	1.06	down	1.31	up	1.03	up	1.30	down	AGPAT3
8130628a	2.73E-08	1.16	down	1.62	down	1.01	up	1.44	up	AGPAT4
7985192a	1.24E-06	1.17	up	1.25	down	1.32	up	1.55	down	AGPHD1
7981514a	9.35E-08	1.39	up	2.75	down	1.52	up	2.19	up	AHNAK2
8131614a	5.80E-07	1.19	down	1.11	down	1.45	down	1.50	up	AHR
8104180a	6.04E-05	1.22	up	1.12	up	1.32	up	1.33	up	AHRR;PDCD6
8175052a	1.15E-05	1.17	up	1.18	down	1.07	down	1.19	down	AIFM1
8121277a	1.08E-07	1.19	up	5.50	down	1.55	up	2.72	up	AIM1
7914617a	2.16E-05	1.05	down	1.32	up	1.11	down	1.06	down	AK2

Transcript ID	Arsenic			Chromium		Nickel		Vanadium		Gene Symbol
	p-value	Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
7916590a	1.53E-05	1.03	up	1.17	up	1.08	down	1.07	down	AK2
8159945a	3.78E-07	1.13	down	1.02	down	1.44	down	1.22	up	AK3
7902038a	1.82E-07	1.06	down	1.47	up	1.37	down	1.22	up	AK3L1
7962183a	1.63E-07	1.22	down	2.52	up	2.06	down	1.25	up	AK3L1
7902452a	4.70E-05	2.10	up	4.94	up	2.26	up	1.71	down	AK5
7985695a	3.66E-07	1.03	up	1.68	down	1.17	up	1.15	up	AKAP13
8122045a	9.93E-05	1.03	down	1.38	down	1.21	up	1.01	up	AKAP7
8035007a	8.99E-05	1.12	down	1.25	up	1.03	down	1.09	down	AKAP8
7900216a	6.74E-06	1.20	up	1.16	up	1.00	up	1.05	down	AKIRIN1
8128034a	8.02E-07	1.33	up	1.04	up	1.36	up	1.01	down	AKIRIN2
7981494a	3.08E-06	1.35	up	1.07	down	1.26	up	1.08	up	AKT1
7925531a	2.24E-07	1.15	down	1.55	down	1.22	down	1.19	up	AKT3
8001410a	4.64E-06	1.11	down	1.80	down	1.08	up	1.43	up	AKTIP
8081431a	2.40E-07	1.24	down	1.49	down	1.34	down	1.47	up	ALCAM
7935230a	1.62E-09	1.11	down	1.49	up	1.32	down	1.29	down	ALDH18A1
7986446a	2.32E-07	1.86	down	4.02	down	1.11	down	2.76	up	ALDH1A3
7958784a	7.06E-06	1.01	up	1.35	up	1.07	up	2.99	down	ALDH2
8005638a	1.90E-06	1.31	up	1.00	down	1.56	up	1.31	down	ALDH3A2
8117207a	9.27E-06	1.27	up	1.37	up	2.03	up	1.86	down	ALDH5A1
7993071a	5.06E-05	1.03	up	1.03	down	1.47	down	1.13	up	ALG1;FAM86A
7969228a	3.62E-05	1.05	down	1.43	down	1.48	down	1.16	up	ALG11;UTP14C
8169419a	7.11E-05	1.00	up	1.42	down	1.49	down	1.28	down	ALG13
8162827a	2.70E-07	1.03	down	1.39	up	1.04	up	1.65	down	ALG2
7951633a	1.91E-07	1.16	down	1.23	up	1.17	down	1.20	down	ALG9
7966183a	7.35E-06	1.01	up	1.12	down	1.11	up	1.75	up	ALKBH2
8141757a	9.57E-05	1.18	up	1.22	up	1.05	up	1.13	down	ALKBH4
8005399a	1.10E-05	1.28	up	1.37	up	1.04	up	1.05	down	ALKBH5
7968344a	1.36E-07	1.04	up	2.22	down	1.07	down	1.50	up	ALOX5AP
8058203a	7.78E-05	1.13	up	1.03	up	1.35	down	1.16	up	ALS2CR12
8111430a	2.84E-06	1.49	up	1.15	up	1.29	up	1.06	down	AMACR
7947652a	3.78E-05	1.16	up	1.25	up	1.04	up	1.08	down	AMBRA1
8001477a	2.48E-05	1.06	up	1.16	down	1.12	up	1.40	up	AMFR
7962579a	3.12E-05	1.37	down	3.77	down	1.16	up	1.79	up	AMIGO2
8055096a	4.74E-05	1.13	up	1.19	down	1.17	up	1.00	down	AMMECR1L
7943263a	1.23E-05	1.20	down	1.27	up	1.19	down	1.22	up	AMOTL1
7938396a	7.46E-06	1.15	down	1.30	up	1.26	down	1.44	up	AMPD3
8009432a	3.50E-07	1.23	up	1.05	down	1.28	up	1.08	up	AMZ2
8054437a	8.12E-06	1.24	up	1.51	up	1.14	up	1.49	down	ANAPC1
8054614a	3.59E-08	1.22	up	1.34	up	1.13	up	1.24	down	ANAPC1;LOC285074
8010686a	6.12E-07	1.20	up	1.22	down	1.26	up	1.08	up	ANAPC11
7973084a	1.90E-05	1.22	up	1.22	up	1.35	up	1.29	down	ANG;RNASE4
8164200a	4.06E-08	1.02	down	1.30	up	1.15	down	2.91	down	ANGPTL2
8011599a	4.17E-06	1.30	up	1.12	up	1.17	up	1.39	down	ANKFY1
8112596a	2.66E-06	1.08	down	1.64	down	1.13	up	1.90	up	ANKRA2
7934979a	7.19E-05	1.75	down	1.26	up	6.63	down	1.09	up	ANKRD1
8003448a	3.66E-06	1.21	up	1.31	up	1.34	up	1.24	down	ANKRD11
8161388a	1.70E-06	1.08	up	1.01	up	2.12	up	1.61	down	ANKRD20A1-5;ANKRD20B
8053744a	4.21E-05	1.09	down	1.05	up	2.38	up	1.35	down	ANKRD20B;ANKRD20A1-4
8161384a	2.61E-06	1.12	down	1.17	up	1.71	up	2.31	down	ANKRD20B;CCDC29
8155591a	6.64E-06	1.19	down	1.01	up	2.93	up	2.14	down	ANKRD20B
8053984a	8.41E-05	1.03	up	1.34	up	1.07	up	1.06	down	ANKRD23;ANKRD39
8053998a	1.29E-09	1.42	up	1.15	up	1.39	up	1.28	down	ANKRD39
8102720a	1.45E-05	1.06	up	1.82	down	1.12	up	1.19	up	ANKRD50

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8121095a	9.23E-08	1.45	up	1.18	up	1.84	up	1.75	down	ANKRD6
8135697a	8.46E-05	1.00	up	1.32	up	1.27	down	1.00	down	ANKRD7
8118863a	6.87E-06	1.24	up	1.19	up	1.31	up	1.00	down	ANKS1A
8086467a	4.91E-06	1.16	down	1.27	down	1.20	down	1.38	up	ANO10
7960438a	3.44E-10	3.84	down	1.24	up	4.31	down	1.34	up	ANO2
7957861a	8.56E-10	1.07	down	1.84	up	1.13	down	4.52	down	ANO4
8156750a	1.73E-06	1.04	down	1.34	up	1.04	down	1.37	down	ANP32B
7991335a	7.87E-05	1.41	up	2.86	down	1.27	up	1.71	up	ANPEP
8042439a	1.33E-05	1.15	up	1.30	down	1.53	up	1.13	up	ANTXR1
8101260a	2.66E-05	1.06	down	1.04	down	2.13	down	2.53	up	ANTXR2
7933237a	6.61E-09	1.14	up	1.22	up	1.28	up	2.93	down	ANUBL1
8154836a	1.62E-05	1.12	down	1.14	down	1.11	down	1.05	up	ANXA2P2
8095986a	2.42E-07	1.79	down	3.52	down	1.65	down	1.37	up	ANXA3
8042468a	8.47E-05	1.30	up	1.46	down	1.36	up	1.34	up	ANXA4
8102619a	3.68E-08	1.07	down	1.27	down	1.07	down	1.46	up	ANXA5
8117081a	9.84E-05	1.22	up	1.01	down	1.42	up	1.09	up	AOF1
8047300a	7.65E-07	1.15	down	3.32	down	2.82	down	2.21	up	AOX1
8002592a	5.05E-05	1.02	up	1.22	down	1.07	up	1.30	up	AP1G1
8034084a	1.13E-06	1.59	up	1.79	up	1.07	down	1.45	down	AP1M2
8112772a	1.34E-08	1.22	down	1.34	down	1.06	down	1.64	up	AP3B1
7934513a	1.36E-05	1.02	down	1.10	up	1.03	up	1.37	down	AP3M1
8146159a	8.94E-05	1.16	up	1.22	down	1.28	up	1.10	up	AP3M2
8134712a	2.98E-06	1.18	up	1.39	down	1.29	up	1.27	up	AP4M1
7982187a	5.39E-09	1.42	up	3.10	up	2.98	up	4.32	down	APBA2
8099982a	3.58E-08	1.16	down	2.51	down	1.36	down	1.78	up	APBB2
8079772a	2.59E-05	1.34	down	1.23	down	1.28	down	1.34	up	APEH
8167854a	1.23E-08	1.44	up	1.23	down	1.29	up	1.15	down	APEX2
7984124a	1.93E-06	1.19	up	1.56	down	1.29	down	1.43	up	APH1B
7939424a	8.04E-08	1.06	up	1.29	up	1.05	up	1.30	down	API5
7947490a	1.09E-05	1.08	up	1.34	up	1.07	up	1.30	down	APIP;PDHX
8073088a	9.97E-10	2.25	up	1.27	down	2.61	up	1.81	down	APOBEC3G
7964142a	2.69E-05	1.14	down	1.27	up	1.15	down	1.02	up	APOF
8072735a	6.10E-06	1.30	up	1.19	up	1.30	up	3.01	down	APOL1
8072710a	6.70E-06	1.50	up	1.18	down	1.77	up	1.89	down	APOL6
8003401a	2.12E-07	1.36	up	1.13	up	1.45	up	1.32	down	APRT
8160602a	3.11E-05	1.33	up	1.17	up	1.17	up	1.32	down	APTX
8167998a	3.24E-07	2.03	up	2.56	down	2.04	up	1.41	up	AR
8167165a	6.02E-09	1.32	up	1.17	down	1.23	up	1.18	down	ARAF
7944285a	8.57E-05	1.04	up	1.29	up	1.02	down	1.13	down	ARCN1
8175924a	8.07E-05	1.04	down	1.39	down	1.09	down	1.12	up	ARD1A
7974249a	7.28E-05	1.23	up	1.27	down	1.05	up	1.31	up	ARF6
7947784a	1.99E-06	1.20	up	1.41	up	1.09	up	1.24	down	ARFGAP2
8076515a	5.27E-06	1.01	up	1.04	down	1.23	down	1.26	up	ARFGAP3
8097813a	4.22E-05	1.04	up	1.39	down	1.01	down	1.07	down	ARFIP1
7946201a	3.22E-08	1.38	up	1.66	up	1.14	up	1.11	down	ARFIP2
7947681a	6.55E-06	1.37	up	1.38	up	1.30	up	1.06	down	ARHGAP1
8097717a	6.30E-07	1.21	down	1.56	down	1.16	down	1.38	up	ARHGAP10
7982358a	3.50E-05	1.11	down	1.29	down	1.04	up	1.42	down	ARHGAP11A
8129458a	2.05E-06	2.37	up	1.15	down	2.49	up	2.07	up	ARHGAP18
7935403a	1.48E-07	1.44	down	1.14	down	1.39	down	1.25	down	ARHGAP19
7951565a	3.16E-05	1.27	down	1.46	up	1.23	down	2.74	down	ARHGAP20
8006779a	3.37E-05	1.18	up	1.06	down	1.16	up	1.67	down	ARHGAP23
8096160a	1.01E-07	2.05	up	2.07	down	1.15	up	1.10	up	ARHGAP24

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8042416a	4.10E-05	1.26	up	1.04	up	1.12	up	1.03	down	ARHGAP25
8016215a	4.99E-08	1.03	up	1.22	up	1.03	up	1.24	down	ARHGAP27
8019964a	1.42E-07	1.42	up	2.34	up	2.49	up	9.09	down	ARHGAP28
7973840a	2.80E-05	1.19	down	1.13	down	1.59	down	1.04	down	ARHGAP5
8019765a	3.47E-05	1.16	up	1.17	down	1.17	up	1.05	up	ARHGDI
8029147a	1.20E-05	1.10	up	1.25	up	1.01	down	1.14	down	ARHGEF1
8144281a	5.11E-05	1.21	down	1.42	down	1.08	down	1.04	up	ARHGEF10
8173217a	2.71E-05	1.19	down	1.70	down	1.30	down	1.04	up	ARHGEF9
8110158a	4.23E-10	1.59	down	1.30	down	2.89	down	1.21	up	ARL10
8112033a	6.28E-07	1.48	down	1.73	down	1.01	down	1.82	up	ARL15
8016300a	1.05E-05	1.12	down	1.27	up	1.05	down	1.60	down	ARL17P1;NBR2
7936041a	2.25E-07	1.16	down	1.28	down	1.19	down	1.28	up	ARL3
8080926a	4.13E-07	1.03	down	1.67	down	1.09	down	1.47	up	ARL6IP5
7923394a	7.54E-05	1.03	down	1.38	down	1.11	down	1.24	up	ARL8A
8121370a	4.14E-05	1.16	up	1.04	up	1.29	up	1.10	down	ARMC2
8049044a	8.92E-08	1.17	up	1.35	down	1.44	up	1.12	up	ARMC9
8168868a	5.10E-06	1.24	up	1.22	down	1.50	down	1.13	up	ARMCX1
8168875a	2.01E-08	1.43	up	1.70	down	1.04	down	1.09	down	ARMCX3
8168958a	2.21E-06	1.14	up	1.53	down	1.10	down	1.10	down	ARMCX5
7985285a	1.04E-06	1.38	up	1.18	up	1.89	up	1.64	down	ARNT2
8048234a	8.99E-06	1.06	up	1.12	down	1.08	up	1.06	up	ARPC2
7922793a	3.34E-08	1.01	up	1.29	down	1.13	down	1.28	up	ARPC5
8092002a	3.03E-05	1.21	up	1.13	up	1.05	down	1.37	down	ARPM1
8026915a	2.16E-05	1.15	up	1.07	down	1.36	up	1.01	up	ARRDC2
8113073a	1.18E-07	1.13	down	3.96	down	1.30	down	3.05	up	ARRDC3
8112807a	4.18E-07	1.09	down	1.35	down	1.02	up	1.88	up	ARSB
8171148a	1.63E-09	1.87	up	1.68	up	1.67	up	2.04	down	ARSD
8106962a	2.46E-08	1.03	up	1.56	down	1.07	up	2.17	up	ARSK
7930181a	9.37E-06	1.31	up	1.37	up	1.44	up	2.51	down	AS3MT;C10orf32
7952341a	9.32E-08	1.21	up	2.40	down	1.49	down	6.46	up	ASAM
8040113a	1.23E-08	1.10	up	1.52	down	1.05	up	1.99	up	ASAP2
7986433a	1.58E-05	1.12	up	1.01	down	1.07	up	1.28	down	ASB7
8121734a	4.03E-05	1.11	down	1.52	down	1.23	down	1.19	up	ASF1A
8145894a	1.18E-05	1.10	up	1.32	down	1.19	up	1.12	up	ASH2L
8177011a	4.49E-06	1.44	up	1.06	up	1.79	up	1.02	down	ASMTL
8046997a	9.88E-09	1.20	up	1.16	up	1.22	up	1.37	down	ASNSD1
7994675a	3.05E-07	1.50	up	1.01	up	1.10	up	1.27	down	ASPHD1
8010702a	3.31E-05	1.14	up	1.13	down	1.32	up	1.05	up	ASPSCR1
7940643a	7.98E-06	1.10	down	1.63	up	1.07	up	1.89	down	ASRGL1
8158671a	6.17E-07	1.30	up	1.20	up	1.62	up	2.31	down	ASS1
8152668a	1.20E-05	1.05	down	1.23	up	1.20	up	1.32	down	ATAD2
7896961a	5.48E-07	1.10	up	1.31	up	1.06	down	1.20	down	ATAD3B;ATAD3A
8006187a	1.41E-05	1.01	up	1.26	up	1.12	up	1.51	down	ATAD5
8056909a	9.02E-09	1.32	up	1.00	up	1.43	up	1.26	down	ATF2
8178727a	8.43E-06	1.02	down	1.41	down	1.25	up	1.20	up	ATF6B;TNXB
7954104a	2.85E-05	1.02	up	1.42	up	1.19	up	1.29	down	ATF7IP
7993167a	1.51E-05	1.08	down	2.18	up	1.07	up	1.66	down	ATF7IP2
8106709a	1.06E-08	1.12	down	2.03	down	1.00	down	2.34	up	ATG10
8077211a	5.04E-06	1.18	up	1.26	up	1.33	up	1.31	down	ATG4B
8025659a	2.05E-07	1.03	down	1.29	up	1.13	up	1.23	down	ATG4D
8059139a	2.64E-05	1.12	up	1.00	up	1.45	up	1.01	up	ATG9A
8048120a	7.48E-06	1.25	up	1.34	up	1.12	up	1.04	down	ATIC
7974270a	2.95E-09	1.33	up	2.52	down	2.24	down	2.72	up	ATL1

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
7948995a	5.12E-07	1.38	down	1.55	down	1.54	down	1.40	up	ATL3
7948997a	4.31E-05	1.09	down	1.29	down	1.27	down	1.27	up	ATL3
7943620a	9.80E-05	1.41	down	1.08	up	1.30	down	1.16	down	ATM;NPAT
7997396a	6.90E-10	1.50	up	1.30	up	1.49	up	1.38	down	ATMIN
8156575a	2.40E-06	1.56	up	1.37	up	1.41	up	1.03	down	ATMIN
8094911a	4.46E-08	1.25	up	1.71	down	1.06	down	1.85	up	ATP10D
7970162a	6.83E-06	1.32	down	1.26	up	1.69	down	1.06	down	ATP11A
8175492a	8.42E-05	1.42	up	1.28	down	1.10	up	1.51	down	ATP11C
7907160a	1.53E-07	1.05	down	1.63	down	1.06	down	1.19	up	ATP1B1
7908940a	1.47E-07	1.47	down	1.37	down	2.11	down	1.82	up	ATP2B4
8067288a	5.81E-05	1.03	down	1.19	down	1.04	up	1.28	up	ATP5E
8056930a	9.91E-05	1.14	up	1.06	down	1.20	up	1.08	down	ATP5G3
8098762a	3.23E-05	1.02	down	1.61	down	1.11	down	1.12	up	ATP5I;MYL5
8069633a	5.57E-05	1.19	up	1.13	up	1.09	up	1.27	down	ATP5J
7944216a	2.31E-05	1.09	down	1.17	up	1.03	up	1.23	down	ATP5L
8037037a	1.27E-09	1.11	down	1.31	up	1.04	down	1.47	down	ATP5SL
8170882a	5.17E-08	1.07	down	1.65	down	1.25	down	1.21	up	ATP6AP1
8166805a	2.12E-09	1.35	down	1.77	down	1.37	down	1.53	up	ATP6AP2
8143221a	3.75E-05	1.05	down	1.62	up	1.19	down	1.90	down	ATP6VOA4
8002041a	1.19E-06	1.20	up	1.33	down	1.19	up	1.39	up	ATP6VOD1;LOC100132855
8144931a	2.31E-07	1.16	up	1.47	down	1.03	up	1.16	up	ATP6V1B2
8147724a	9.81E-06	1.11	up	1.25	up	1.18	up	1.35	down	ATP6V1C1
8051989a	4.85E-08	1.29	up	1.10	down	1.37	up	1.06	down	ATP6V1E2
8179762a	4.35E-06	1.53	up	1.07	up	1.10	up	1.42	up	ATP6V1G2;BAT1
8168472a	2.03E-05	1.24	up	1.58	down	1.03	down	1.08	up	ATP7A
7905754a	7.52E-07	1.19	down	1.16	down	1.65	down	1.26	up	ATP8B2
7915870a	3.66E-07	1.04	down	1.20	up	1.15	down	1.09	down	ATPAF1;KIAA0494
8013179a	2.07E-05	1.22	up	1.37	up	1.12	up	1.32	down	ATPAF2
7987369a	2.60E-05	1.36	down	1.90	down	1.22	down	1.07	up	ATPBD4
8060627a	7.94E-07	2.11	down	1.07	down	2.02	down	1.05	down	ATRN
8173673a	1.60E-06	1.05	up	2.01	down	1.10	down	1.36	down	ATRX
8176276a	2.92E-05	1.05	up	1.92	down	1.07	down	1.45	down	ATRX
8124040a	4.29E-07	1.20	up	1.78	down	1.74	up	2.04	up	ATXN1
8073799a	6.79E-07	1.04	down	1.23	down	1.08	down	1.20	up	ATXN10
7994386a	9.25E-07	1.31	up	1.33	up	1.21	up	1.06	down	ATXN2L
8015955a	5.22E-05	1.04	up	1.15	up	1.02	down	1.62	down	ATXN7L3
8162264a	1.05E-07	1.03	up	1.39	up	1.17	up	1.58	down	AUH
8012403a	3.87E-06	1.09	up	1.30	up	1.08	up	1.24	down	AURKB
8133233a	9.22E-07	1.03	up	1.04	down	2.33	up	1.10	up	AUTS2
7935521a	9.10E-06	1.02	up	1.26	up	1.41	down	1.20	up	AVPI1
8029006a	1.65E-05	1.22	down	1.04	up	1.17	down	1.01	up	AXL
8152222a	3.41E-07	1.13	up	1.02	down	1.33	up	1.31	down	AZIN1
7983360a	1.06E-07	1.13	down	1.90	down	1.04	down	1.05	down	B2M
8091780a	2.83E-06	1.03	up	1.78	up	1.53	down	2.58	down	B3GALNT1
7968370a	1.12E-07	1.06	down	1.80	down	1.06	down	1.37	up	B3GALTL
8042211a	2.08E-06	1.36	up	1.18	down	1.25	up	1.15	down	B3GNT2
8001932a	1.11E-06	1.13	up	1.28	down	1.81	down	1.79	up	B3GNT9;C16orf70
7964484a	3.25E-05	1.12	down	1.50	down	1.52	up	1.20	up	B4GALNT1;SLC26A10
8160637a	8.21E-08	1.03	up	1.27	down	1.04	down	1.38	up	B4GALT1
8066939a	3.27E-05	1.15	up	1.13	down	1.25	up	1.27	up	B4GALT5
8013331a	4.29E-05	1.27	up	1.28	up	1.27	up	1.09	down	B9D1
7951910a	2.85E-06	1.26	up	1.77	down	1.01	up	2.30	up	BACE1
8128247a	3.31E-05	1.23	down	1.13	down	1.44	down	1.63	up	BACH2

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
7930921a	8.94E-05	1.25	up	1.12	down	1.06	up	1.13	up	BAG3
8069494a	8.76E-08	1.09	down	1.63	up	1.03	down	2.23	down	BAGE2;LOC441666
8141206a	3.20E-06	2.33	up	2.13	up	3.91	up	1.16	down	BAIAP2L1
8125766a	9.18E-06	1.30	up	1.03	down	1.33	up	1.06	down	BAK1
8058695a	9.18E-05	1.13	up	1.05	up	1.31	up	1.11	down	BARD1
8178011a	3.66E-08	1.32	up	1.05	up	1.46	up	1.02	down	BAT2
8179782a	9.95E-06	1.26	up	1.18	up	1.43	up	1.05	down	BAT3
8124998a	1.09E-06	1.35	up	1.14	up	1.40	up	1.11	up	BAT4
7924166a	2.27E-05	1.12	up	1.45	up	1.21	down	1.20	down	BATF3
8056060a	1.08E-05	1.02	up	1.96	down	1.16	down	1.09	down	BAZ2B
8001507a	2.90E-07	1.10	down	1.60	down	1.21	up	1.69	up	BBS2
8046147a	1.37E-05	1.84	up	1.33	up	1.72	up	1.82	down	BBS5;KBTBD10
8081465a	3.97E-06	1.27	up	1.14	up	1.42	up	1.31	down	BBX
8175835a	5.25E-08	1.13	down	1.48	down	1.21	down	1.39	up	BCAP31
8029065a	3.65E-05	1.20	down	1.28	up	1.35	down	1.27	down	BCKDHA
8044375a	1.29E-05	1.37	up	1.48	up	1.38	up	1.55	down	BCL2L11
7959354a	1.39E-07	1.19	down	1.41	up	1.35	down	1.07	down	BCL7A
8000948a	1.95E-06	1.38	up	1.03	down	1.25	up	1.00	down	BCL7C
8172088a	2.59E-07	1.13	up	1.86	down	1.01	up	1.01	up	BCOR
8169882a	5.45E-07	1.24	up	1.01	down	1.23	down	1.03	up	BCORL1
8048370a	3.52E-06	1.37	up	1.04	down	1.41	up	1.01	up	BCS1L
8093219a	1.09E-07	1.49	down	1.25	up	2.38	down	1.49	down	BDH1
7976567a	7.82E-06	1.53	up	5.71	down	1.31	down	2.13	up	BDKRB1
8015715a	6.23E-06	1.21	up	1.38	up	1.04	down	1.71	down	BECN1;CNTD1
7945349a	3.68E-08	1.71	up	1.28	up	1.25	up	1.05	up	BET1L
8174201a	1.91E-07	1.21	up	1.18	down	9.39	down	1.42	up	BEX1
8170648a	1.32E-07	1.05	up	6.04	down	1.37	up	1.28	up	BGN
8077441a	8.77E-07	1.12	up	2.28	down	1.67	up	1.13	up	BHLHE40
7961891a	3.49E-06	1.13	down	1.14	down	1.32	down	1.87	up	BHLHE41
8054945a	4.98E-08	1.63	up	1.02	down	1.57	up	1.22	up	BIN1
8149707a	8.10E-06	1.18	up	1.17	down	1.30	up	1.06	up	BIN3
7943413a	9.99E-08	1.25	up	1.09	down	1.50	up	2.90	down	BIRC3
8036913a	5.44E-06	1.45	up	1.05	down	1.24	up	1.19	up	BLVRB
7926609a	1.14E-07	1.14	down	1.47	down	1.89	down	1.15	up	BMI1
8145055a	3.31E-07	1.15	down	1.75	down	1.22	down	1.49	up	BMP1
8060850a	5.33E-06	1.07	up	1.27	down	1.12	up	1.04	down	BMP2
8096004a	5.01E-07	1.10	down	1.35	down	1.37	down	1.47	up	BMP2K
8132250a	7.52E-08	1.52	down	1.59	up	2.19	down	1.16	up	BMPER
7952305a	1.35E-05	1.24	down	1.07	down	1.29	down	1.02	down	BMPR1A
8047538a	2.23E-07	1.04	up	1.62	down	1.13	up	1.09	up	BMPR2
8115865a	3.16E-05	1.12	up	1.16	up	1.16	up	1.28	down	BOD1
8049876a	8.29E-05	1.21	up	1.09	down	1.49	up	1.08	up	BOK
7905092a	5.62E-05	1.34	up	1.16	down	1.00	up	1.36	up	BOLA1
8000692a	4.60E-06	1.40	up	1.22	up	1.28	up	1.10	up	BOLA2;BOLA2B
8136341a	2.09E-06	1.20	up	1.13	down	1.25	up	1.18	down	BPGM
8116635a	1.02E-06	1.65	up	1.10	down	1.47	up	1.22	up	BPHL;LOC100130927
8015769a	4.72E-09	1.00	up	1.41	up	1.17	up	2.08	down	BRCA1
8171006a	3.92E-07	1.05	down	1.83	down	1.58	down	1.14	up	BRCC3
8179504a	8.92E-08	1.37	up	1.21	up	1.47	up	1.01	up	BRD2
7959777a	7.14E-05	1.11	down	1.50	up	1.09	up	1.08	down	BRI3BP
8017262a	7.37E-06	1.25	down	1.69	down	1.04	down	1.09	up	BRIP1
8119034a	2.62E-05	1.20	up	1.01	up	1.24	up	1.13	down	BRPF3
8173766a	1.88E-05	1.21	down	1.71	down	1.44	down	1.11	down	BRWD3

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8094228a	8.74E-05	1.30	up	1.60	down	1.21	down	1.75	up	BST1
7929201a	2.99E-09	1.28	down	1.26	up	1.34	down	1.19	down	BTAF1
8060988a	1.27E-08	2.41	down	1.20	down	1.82	down	1.12	up	BTBD3
7965423a	6.04E-05	1.46	up	1.04	down	1.69	up	1.19	up	BTG1
8069565a	3.37E-06	1.29	up	1.41	down	1.04	up	1.33	up	BTG3
8117485a	4.09E-06	1.41	up	1.15	down	1.34	up	1.17	up	BTN2A1
8117458a	6.43E-05	1.43	up	1.48	down	1.51	up	1.16	up	BTN3A1
8117435a	3.65E-05	1.46	up	1.86	down	1.37	up	1.38	up	BTN3A2
8054580a	3.31E-07	1.14	up	1.16	up	1.14	up	1.17	down	BUB1
7951826a	1.39E-06	1.01	down	1.30	up	1.14	up	1.29	down	BUD13
8104825a	3.10E-05	1.25	up	1.49	up	1.20	up	1.35	down	BXDC2;RAD1
8119492a	9.76E-05	1.33	up	1.33	up	1.21	up	1.07	down	BYSL
8047339a	2.55E-05	1.19	up	1.05	up	1.19	up	1.05	down	BZW1L1
7929609a	1.15E-05	1.09	down	1.05	up	1.45	down	1.10	up	C10orf12
7936918a	4.42E-05	1.04	down	1.25	down	1.24	down	1.30	up	C10orf122
7937208a	9.21E-06	1.39	up	1.48	down	1.42	up	1.79	up	C10orf125
7930162a	4.58E-06	1.22	up	1.49	down	1.25	up	1.31	up	C10orf26
7928671a	7.74E-06	1.42	down	1.27	up	1.14	down	1.14	down	C10orf57
7933488a	5.18E-07	1.24	down	1.03	up	1.18	down	1.57	up	C10orf72
7939087a	4.43E-07	1.26	up	1.21	up	1.14	up	1.31	down	C11orf46
7943162a	1.92E-07	1.02	down	1.84	up	1.01	down	1.59	down	C11orf54
7943842a	2.47E-07	1.04	down	1.42	up	1.19	down	1.44	down	C11orf57
7944751a	6.42E-05	1.45	up	1.03	down	1.83	up	1.22	down	C11orf63
7940493a	2.89E-05	1.23	up	1.08	up	1.26	up	1.06	down	C11orf66
7942783a	5.90E-05	1.14	down	1.58	down	1.06	up	1.23	up	C11orf67;INTS4
7951004a	6.91E-08	1.50	up	1.88	up	1.03	down	1.82	down	C11orf75
7941714a	4.71E-05	1.35	down	1.32	down	1.16	down	1.22	up	C11orf80;RCE1
7961964a	6.14E-05	1.11	up	1.19	up	1.24	up	1.21	down	C12orf11
7954711a	4.05E-06	1.12	up	1.17	down	1.53	up	1.22	down	C12orf35
7967109a	2.13E-07	1.12	up	1.32	up	1.16	up	1.24	down	C12orf43
7955606a	4.31E-05	1.22	up	1.14	down	1.10	up	1.02	up	C12orf44
7958950a	5.55E-07	1.30	up	1.47	up	1.36	up	1.02	down	C12orf52
7953936a	7.87E-09	3.22	up	2.22	up	4.75	up	7.37	down	C12orf59
7964677a	3.60E-06	1.60	up	1.52	up	1.12	up	1.18	down	C12orf66
7971644a	4.17E-06	1.09	down	1.11	down	1.29	down	1.18	up	C13orf1
7968351a	2.11E-08	1.78	down	3.63	down	3.58	down	2.22	up	C13orf33
7980309a	1.19E-07	1.25	up	1.34	down	1.27	up	1.15	up	C14orf1
7980403a	7.47E-05	1.10	up	1.32	down	1.02	down	1.37	up	C14orf133
7974771a	1.74E-05	1.09	down	1.35	down	1.07	down	1.54	up	C14orf135
7980690a	4.93E-05	1.07	down	1.35	down	1.03	up	1.21	up	C14orf143
7979437a	8.19E-06	1.08	up	1.54	down	1.31	down	1.58	up	C14orf149
7980338a	1.17E-08	1.18	up	1.55	down	1.37	up	1.36	up	C14orf4
7975081a	3.03E-05	1.48	up	1.03	up	1.08	up	1.03	up	C14orf50
7985352a	9.60E-06	1.26	up	1.08	down	1.10	up	1.05	down	C15orf26
7991049a	1.33E-08	1.16	up	1.47	down	1.12	up	1.35	down	C15orf40
7983478a	1.04E-05	1.21	up	1.59	down	1.04	up	1.62	up	C15orf48
7982587a	2.76E-05	1.18	down	1.07	up	1.21	down	1.18	up	C15orf53
7987526a	5.05E-07	1.19	up	1.59	down	1.19	up	1.09	down	C15orf57;MRPL42P5
7984405a	4.21E-05	1.24	up	1.35	down	1.32	up	1.14	down	C15orf61
8002992a	4.76E-06	1.35	up	1.56	up	1.38	up	1.24	down	C16orf46
7999160a	9.30E-05	1.03	down	1.23	up	1.37	down	1.38	up	C16orf5
7994655a	1.94E-06	1.41	up	1.33	up	1.22	up	1.03	down	C16orf53
7997976a	3.28E-06	1.19	up	1.27	up	1.27	up	1.14	down	C16orf55

Transcript ID	Arsenic			Chromium		Nickel		Vanadium		Gene Symbol
	p-value	Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8002987a	1.32E-05	1.28	up	1.12	up	1.45	up	1.23	down	C16orf61;CENPN
7993114a	1.13E-05	1.21	up	1.51	up	1.02	down	1.10	down	C16orf68
7996403a	2.08E-06	1.01	down	1.14	down	1.05	up	1.50	up	C16orf70
7993159a	6.43E-06	1.40	up	1.25	up	1.14	up	1.06	down	C16orf72
8003210a	1.02E-05	1.42	up	1.24	up	1.48	up	1.13	down	C16orf74
8001178a	2.82E-05	1.04	up	1.34	down	1.01	down	1.95	up	C16orf87
7999903a	4.43E-06	1.53	up	1.01	up	1.27	up	1.12	up	C16orf88
8000932a	1.19E-06	1.45	up	1.23	up	1.52	up	1.03	up	C16orf93
8005305a	6.19E-09	1.04	down	1.41	up	1.20	down	1.25	down	C17orf39
8007569a	3.07E-07	1.02	up	1.52	up	1.11	up	1.43	down	C17orf53
8017831a	1.73E-06	1.42	up	1.02	up	1.35	up	1.10	down	C17orf58
8019507a	3.94E-05	1.16	up	1.09	down	1.23	up	1.02	down	C17orf62
8013776a	5.81E-06	1.17	up	1.11	up	1.21	up	1.46	down	C17orf63
8012423a	9.70E-05	1.06	down	1.18	up	1.23	down	1.45	down	C17orf68
8007803a	5.82E-07	1.01	down	1.25	up	1.03	down	1.37	down	C17orf69
8004293a	8.20E-09	1.22	up	1.38	up	1.12	up	1.32	down	C17orf81
8019238a	4.14E-08	1.35	up	1.01	up	1.18	up	1.07	down	C17orf90
8022310a	3.04E-10	7.15	up	1.14	down	12.43	up	1.09	up	C18orf58
8027416a	5.48E-07	1.23	down	1.17	up	1.45	down	1.01	up	C19orf2
8032127a	1.89E-05	1.08	up	1.09	down	1.26	up	1.18	down	C19orf22
8028325a	4.36E-06	1.44	down	1.18	down	1.52	down	1.44	up	C19orf33;YIF1B
8027510a	5.61E-05	1.06	up	1.14	down	1.08	down	1.30	up	C19orf40
8038624a	3.59E-05	1.19	down	1.16	up	1.35	down	1.11	up	C19orf48
8036956a	9.14E-05	1.07	up	1.39	up	1.07	down	1.00	up	C19orf54
8030706a	9.02E-05	1.33	down	1.04	up	1.37	down	1.12	up	C19orf63;FAM71E1
8029996a	3.32E-05	1.01	down	1.30	up	1.06	down	1.14	down	C19orf68
8052698a	3.51E-05	1.23	up	1.05	down	1.03	up	1.14	down	C1D
8131475a	2.29E-07	1.03	down	1.24	down	1.43	down	1.60	up	C1GALT1
7909478a	3.18E-07	1.15	up	1.56	down	1.19	down	1.20	up	C1orf107
7915045a	2.97E-05	1.05	up	1.36	up	1.10	down	1.04	down	C1orf109
7909862a	3.22E-07	1.20	up	1.37	up	1.27	up	1.49	down	C1orf115
7898894a	1.17E-07	1.28	up	1.46	up	1.03	up	1.04	down	C1orf128
7925033a	4.00E-06	1.28	up	1.27	down	1.02	down	1.09	up	C1orf131
7916219a	4.29E-06	1.20	up	1.40	up	1.14	down	1.06	down	C1orf163
7913787a	2.31E-07	1.02	up	1.46	up	1.29	down	1.27	up	C1orf201
7915500a	7.02E-05	1.04	up	1.43	up	1.03	up	1.08	down	C1orf210
7908966a	8.97E-05	1.12	up	1.01	down	1.43	down	1.41	up	C1orf217
7899394a	2.60E-07	1.45	up	1.11	up	1.45	up	1.42	down	C1orf38
7905154a	7.26E-05	1.15	up	1.21	up	1.22	up	2.14	up	C1orf51
7905324a	2.26E-06	1.20	up	1.26	up	1.35	down	1.32	down	C1orf56
7909931a	7.04E-05	1.20	up	1.01	up	1.13	up	1.29	down	C1orf58
7901592a	3.77E-06	1.30	up	1.43	up	1.14	up	1.11	down	C1orf83
7907404a	6.17E-06	1.21	down	1.08	down	1.48	down	1.24	up	C1orf9
8011850a	1.09E-05	1.10	up	1.27	up	1.02	up	1.25	down	C1QBP;RPAIN
7963061a	7.25E-06	1.37	up	1.29	up	2.00	up	1.02	down	C1QL4
7960744a	9.60E-05	1.35	up	1.30	down	1.90	up	1.07	up	C1R
7953603a	3.62E-05	2.24	up	1.35	down	2.17	up	1.05	down	C1S
8179331a	7.80E-05	1.57	up	1.17	up	1.26	up	1.05	down	C2
8065612a	4.28E-07	1.34	up	1.34	down	1.67	up	1.34	down	C20orf112
8065202a	9.71E-05	1.40	down	1.15	up	1.45	down	1.19	down	C20orf12
8061305a	9.22E-05	1.51	down	1.10	down	1.51	down	1.18	down	C20orf19
8064637a	4.13E-08	2.07	down	1.19	down	2.43	down	1.03	down	C20orf194
8060796a	1.16E-05	1.21	down	1.36	down	1.26	down	1.23	up	C20orf196

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8064739a	5.68E-06	1.34	down	1.37	up	1.38	down	1.16	down	C20orf27
8060698a	3.05E-06	1.35	down	1.23	up	1.31	down	1.16	down	C20orf29
8065433a	2.33E-07	2.43	down	1.02	down	2.51	down	1.18	up	C20orf3
8064833a	2.60E-05	1.53	down	1.02	down	1.50	down	1.07	down	C20orf30
8064388a	8.71E-05	1.22	down	1.09	up	1.20	down	1.07	up	C20orf54
8061019a	5.25E-08	2.08	down	1.01	down	2.10	down	1.07	down	C20orf7
8061129a	1.44E-07	1.76	down	1.11	up	2.01	down	1.08	up	C20orf72
8068200a	2.90E-06	1.44	up	1.07	up	1.28	up	1.33	down	C21orf119
8070744a	2.66E-05	1.19	up	1.04	down	1.19	up	1.12	down	C21orf2
8069026a	4.83E-07	1.21	up	1.38	up	1.08	up	1.23	down	C21orf33;PWP2
8067932a	6.48E-06	2.48	up	1.87	down	1.28	up	1.73	up	C21orf34
8069933a	3.66E-06	1.07	down	1.31	up	1.10	down	1.26	down	C21orf45
8069998a	8.46E-06	1.07	up	1.50	up	1.03	up	1.15	down	C21orf59
8070046a	9.43E-06	1.03	down	1.29	up	1.11	down	1.41	down	C21orf66
8069574a	1.51E-07	1.36	up	1.85	down	1.07	up	1.68	up	C21orf91
8071301a	6.59E-05	1.39	up	1.14	up	1.53	up	1.13	down	C22orf25
8075585a	8.72E-05	1.10	up	1.27	up	1.09	up	1.21	down	C22orf28
7944418a	2.36E-07	1.03	down	1.48	up	1.14	down	1.33	down	C2CD2L;DPAGT1
8059097a	1.50E-05	1.31	up	1.34	up	1.34	up	1.00	down	C2orf24
8043937a	4.53E-07	1.22	up	1.15	up	1.18	up	1.00	up	C2orf29
8053288a	8.54E-05	1.22	up	1.00	down	1.14	up	1.25	down	C2orf3
8052834a	1.03E-05	1.23	up	1.10	down	1.24	up	1.01	down	C2orf42
8047265a	1.31E-05	1.39	up	1.27	up	1.24	up	1.02	down	C2orf47;C2orf60
8044127a	1.96E-07	1.28	up	1.12	down	1.26	up	1.17	down	C2orf49
8041495a	2.81E-05	1.17	up	1.22	up	1.24	up	1.22	down	C2orf56
8058108a	7.52E-07	1.24	up	1.11	down	1.22	up	1.14	down	C2orf60
8053248a	6.19E-07	1.23	up	3.47	up	1.65	up	2.12	down	C2orf65
8058570a	2.40E-05	1.13	up	1.37	down	1.26	down	1.19	up	C2orf67
8077770a	3.13E-05	1.12	down	1.45	down	1.09	down	1.02	down	C3orf10
8091629a	1.09E-05	1.07	up	1.60	up	1.04	up	1.42	down	C3orf33
8082504a	3.93E-05	1.21	up	1.18	up	1.37	up	1.21	down	C3orf37
8083599a	7.66E-05	2.30	up	1.17	up	1.12	down	1.14	down	C3orf55
8083223a	1.02E-06	1.89	up	2.36	up	1.19	up	1.36	down	C3orf58
8092765a	2.32E-06	1.35	down	1.21	down	1.19	down	1.25	up	C3orf59
8088680a	5.08E-07	1.81	down	1.90	down	1.40	down	1.24	up	C3orf64
8088436a	1.48E-07	1.11	down	1.25	down	1.09	down	1.85	up	C3orf67
8094070a	2.56E-05	1.03	down	1.17	up	1.05	down	1.40	down	C4orf23
8103684a	4.35E-07	1.09	down	1.61	down	1.00	down	1.20	up	C4orf27
8097373a	3.32E-05	1.03	up	1.61	down	1.05	up	1.01	up	C4orf29
8098512a	1.75E-05	1.29	down	1.54	down	1.16	down	1.11	up	C4orf41
7991777a	4.05E-05	1.02	up	1.52	down	1.10	up	1.02	up	C4orf46
8102831a	2.28E-05	1.31	up	1.81	down	1.77	up	1.64	down	C4orf49
8113504a	9.06E-09	1.61	down	3.41	down	2.32	down	2.53	up	C5orf13
8104680a	2.63E-06	1.37	up	1.64	up	1.43	up	1.39	down	C5orf22
8104758a	1.30E-08	1.38	up	22.72	down	1.64	down	2.22	up	C5orf23
8110147a	1.30E-09	2.23	down	3.95	up	2.48	up	4.99	down	C5orf25
8107321a	4.02E-05	1.35	down	1.14	up	1.44	down	1.03	down	C5orf26
8111552a	5.80E-05	1.40	up	1.30	up	1.31	up	1.19	down	C5orf33
8111960a	5.67E-05	1.36	up	1.26	up	1.46	up	1.17	down	C5orf34
8112302a	4.40E-08	1.29	down	1.32	down	1.08	down	1.53	up	C5orf43
8105647a	2.55E-07	1.62	down	1.54	down	1.23	down	1.47	up	C5orf44
8105661a	3.69E-06	1.67	down	1.27	down	1.17	down	1.34	up	C5orf44
8105104a	1.31E-05	1.21	up	1.41	up	1.18	up	1.35	down	C5orf51

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8110681a	4.63E-07	1.41	up	1.25	up	1.37	up	1.00	down	C5orf55
8125850a	2.85E-10	1.46	up	1.10	up	1.60	up	1.17	down	C6orf106
8125775a	1.56E-07	1.22	up	1.26	down	1.37	up	1.13	up	C6orf125
8126382a	1.54E-05	1.23	down	1.18	down	1.79	down	1.39	up	C6orf132
8179149a	8.24E-06	1.45	up	1.06	down	1.38	up	1.10	up	C6orf134
8123678a	8.90E-08	1.29	up	1.77	down	1.37	up	1.09	up	C6orf145
8119661a	4.72E-05	1.21	up	1.18	up	1.22	up	1.02	up	C6orf153
8128329a	5.97E-05	1.02	down	1.17	up	1.19	up	1.15	down	C6orf167
8116696a	4.21E-05	1.06	up	1.21	down	1.16	up	1.04	up	C6orf201
8179808a	5.08E-07	1.44	up	1.09	down	1.61	up	1.07	up	C6orf47
8131044a	6.74E-05	1.24	up	1.18	up	1.28	up	1.09	down	C7orf20
8131427a	2.98E-05	1.06	up	1.31	up	1.19	up	1.20	down	C7orf26
8137219a	2.69E-05	1.08	up	1.07	up	1.60	down	1.62	down	C7orf29
8138647a	1.65E-05	1.58	up	1.13	down	1.78	up	1.11	up	C7orf31
8131881a	4.63E-07	1.34	down	1.35	up	2.53	down	2.04	down	C7orf46
8141517a	8.16E-05	1.11	up	1.05	down	1.20	up	1.11	up	C7orf47
8137700a	1.73E-06	1.20	up	1.35	up	1.28	up	1.07	down	C7orf50
8135734a	4.73E-06	1.70	up	1.77	down	1.03	down	1.56	up	C7orf58
8134740a	1.22E-06	1.32	up	1.12	down	1.34	up	1.02	up	C7orf59
8134051a	1.29E-05	1.26	up	1.72	up	1.61	up	1.39	down	C7orf63
8149315a	1.32E-07	2.56	down	1.08	down	2.01	down	1.13	down	C8orf15
8151898a	8.54E-05	1.26	up	1.19	down	1.47	up	1.17	down	C8orf37
8146703a	1.67E-06	1.10	down	1.23	up	1.24	down	1.70	down	C8orf46
8145193a	4.68E-06	1.18	up	1.17	down	1.19	up	1.02	up	C8orf58;PDLIM2
8152648a	8.80E-07	1.25	up	1.02	up	1.32	up	1.41	down	C8orf76
8144712a	8.15E-07	1.28	up	1.21	down	1.40	up	1.02	up	C8orf79
8156116a	9.28E-05	1.40	up	1.40	up	1.12	up	1.56	down	C9orf103
8164481a	8.80E-06	1.02	down	1.20	up	1.01	up	1.49	down	C9orf114;ENDOG
8160912a	9.05E-05	1.47	up	1.05	up	1.03	down	1.22	down	C9orf131
8154381a	6.00E-08	1.78	up	1.06	down	2.61	up	5.27	up	C9orf150
8160835a	1.62E-07	1.42	up	1.04	up	1.15	up	1.17	down	C9orf23
8156573a	1.76E-05	1.13	down	1.60	down	1.03	up	1.04	down	C9orf3
8161829a	3.32E-05	1.09	down	1.23	up	1.42	down	1.38	down	C9orf41
8164008a	4.98E-07	1.65	down	1.64	up	1.18	down	1.87	down	C9orf45
8157144a	1.04E-05	1.06	down	1.76	up	1.23	up	1.58	down	C9orf6;IKBKAP
8155794a	4.18E-05	1.01	down	1.30	up	1.16	down	1.43	down	C9orf85
8158930a	6.69E-05	1.05	up	1.21	up	1.21	up	1.35	down	C9orf9;C9orf98
7989501a	7.39E-08	1.06	up	1.02	up	1.35	down	2.86	up	CA12
8071823a	3.27E-05	1.17	up	1.21	up	1.20	up	1.11	down	CABIN1
8067495a	8.38E-06	1.21	up	1.22	down	1.44	up	1.31	up	CABLES2
7901993a	1.59E-08	3.31	up	1.07	up	3.12	up	2.26	down	CACHD1
8140579a	6.22E-07	5.22	up	2.86	up	1.11	up	1.00	down	CACNA2D1
7955142a	4.48E-07	1.03	down	1.68	down	1.09	up	1.24	up	CACNB3
8009334a	7.51E-07	2.19	down	3.71	down	1.17	up	2.35	up	CACNG4
8040843a	1.60E-06	1.19	up	1.57	up	1.07	up	1.09	down	CAD
8057578a	2.82E-05	1.43	up	1.24	up	1.08	up	1.05	down	CALCRL
7976200a	1.09E-05	1.14	up	1.35	down	1.06	up	1.15	up	CALM1
7926223a	2.07E-06	1.06	down	2.41	down	1.26	down	1.15	down	CAMK1D
7909425a	1.74E-05	1.08	up	1.20	up	1.04	down	2.25	up	CAMK1G
8139330a	5.99E-10	1.13	down	1.40	up	1.10	up	2.14	down	CAMK2B
8117054a	2.82E-08	1.23	up	1.38	down	1.30	up	1.26	up	CAP2
7909967a	7.12E-05	1.10	down	1.33	down	1.21	down	1.37	up	CAPN2
7942697a	4.48E-05	1.39	up	1.07	down	1.19	up	1.19	up	CAPN5

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
7939242a	1.32E-05	1.08	up	1.17	up	1.02	up	1.09	down	CAPRIN1
7913169a	1.06E-05	1.02	up	1.08	up	1.07	down	1.20	up	CAPZB
8075934a	9.89E-06	1.04	down	1.29	down	1.01	down	1.18	up	CARD10
8137874a	1.77E-07	1.34	down	2.19	up	1.16	up	3.86	down	CARD11
7951408a	7.98E-10	1.82	up	2.51	down	1.40	up	1.10	down	CARD16
7999319a	2.36E-05	1.34	up	1.20	up	1.35	up	1.09	down	CARHSP1
7945803a	9.77E-05	1.02	down	1.53	up	1.09	down	1.08	up	CARS
8007028a	7.14E-05	1.02	down	1.14	up	1.04	up	1.53	down	CASC3
7983321a	5.26E-05	1.05	down	1.22	down	1.14	up	1.21	down	CASC4
7982757a	2.47E-05	1.17	down	1.47	down	1.07	up	1.42	down	CASC5
8134318a	1.50E-05	1.33	up	1.09	up	1.21	up	1.22	down	CASD1
8172158a	3.18E-08	1.36	down	1.75	down	1.61	down	1.67	up	CASK
8047403a	1.66E-05	1.57	up	1.35	down	1.33	up	1.11	down	CASP10
7951372a	4.52E-06	1.36	up	2.74	up	1.01	up	1.78	down	CASP4
8102311a	3.17E-05	1.04	up	1.40	down	1.09	down	1.27	up	CASP6
7930577a	1.65E-05	1.03	down	1.29	down	1.33	down	1.33	up	CASP7
8107005a	1.63E-05	1.08	down	1.34	down	1.12	up	1.52	up	CAST
8135594a	3.73E-05	1.27	up	1.27	down	1.18	up	1.41	up	CAV1
8135587a	1.24E-06	1.28	up	1.55	down	1.32	up	1.36	up	CAV2
7944493a	4.79E-05	1.07	up	1.47	up	1.06	up	1.24	down	CBL
8068401a	3.93E-06	1.35	up	1.50	up	1.11	up	1.23	down	CBR1
8010320a	2.14E-08	1.23	up	1.25	up	1.68	up	1.23	down	CBX2
8019010a	3.36E-06	1.09	up	1.26	up	1.23	up	1.08	down	CBX8
8007707a	1.14E-05	1.15	up	1.40	up	1.02	up	1.20	down	CCDC103
8096808a	1.39E-05	1.25	down	1.39	down	1.29	down	1.31	up	CCDC109B
8113602a	2.28E-06	1.10	down	1.69	up	1.44	down	1.61	down	CCDC112
7996198a	8.90E-05	1.47	up	2.77	up	1.50	up	1.30	down	CCDC113
8055208a	2.46E-07	1.51	up	1.08	up	1.32	up	1.18	up	CCDC115
8073513a	8.84E-07	1.06	down	1.45	up	1.12	down	1.08	down	CCDC134
8010629a	5.62E-07	1.25	up	1.30	up	1.11	up	1.02	down	CCDC137
8013479a	6.58E-06	1.27	up	1.08	down	1.13	up	1.34	down	CCDC144NL;CCDC144C
7930320a	8.91E-09	1.16	down	1.03	down	1.16	down	1.31	up	CCDC147
7944913a	3.01E-05	1.07	down	1.65	down	1.09	up	1.16	up	CCDC15
8030299a	4.41E-05	1.03	up	1.26	up	1.03	up	1.04	down	CCDC155
7899134a	2.46E-05	1.04	down	1.39	up	1.01	up	1.06	up	CCDC21
8167457a	9.71E-06	1.03	up	1.34	down	1.00	down	1.02	up	CCDC22
7900944a	2.16E-07	1.27	up	1.07	down	1.35	up	1.03	up	CCDC24;SLC6A9
8122327a	2.59E-07	1.01	up	1.15	up	1.43	up	1.32	down	CCDC28A
7932082a	2.20E-07	2.56	up	1.21	up	1.81	up	2.86	down	CCDC3
7947189a	1.47E-05	1.34	up	1.22	up	1.40	up	1.09	down	CCDC34
8016088a	2.71E-06	1.01	up	1.70	up	1.14	down	1.63	down	CCDC43
8014738a	1.21E-05	1.10	up	1.16	up	1.01	up	1.46	down	CCDC49
8006112a	6.86E-07	1.22	up	1.05	up	1.17	up	1.99	down	CCDC55
8015712a	9.63E-05	1.06	up	1.19	up	1.01	up	1.69	down	CCDC56
8023401a	3.68E-08	2.84	up	2.12	down	3.09	up	1.03	down	CCDC68
8055173a	1.21E-07	1.08	up	1.05	up	1.70	up	1.16	down	CCDC74A;CCDC74B
8037762a	6.11E-08	1.16	down	1.53	up	1.18	down	1.93	down	CCDC8
8089544a	3.55E-06	1.71	down	1.24	down	2.74	down	1.25	up	CCDC80
7944365a	7.96E-05	1.30	down	1.39	up	1.00	down	1.37	down	CCDC84
7941457a	3.12E-05	1.24	up	1.07	down	1.30	up	1.10	down	CCDC85B
7949668a	2.34E-05	1.07	up	1.31	up	1.05	up	1.04	down	CCDC87
8052269a	2.95E-05	1.23	up	1.28	down	1.15	up	1.23	down	CCDC88A
7980828a	5.43E-09	1.00	down	2.23	up	2.30	up	6.01	down	CCDC88C

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8124008a	6.27E-06	1.40	up	1.31	up	1.48	up	1.06	up	CCDC90A
8155200a	7.20E-07	1.12	down	1.45	down	1.22	down	1.61	up	CCIN
8006433a	4.25E-06	2.28	up	2.29	down	1.51	up	2.32	down	CCL2
8132646a	1.86E-07	1.23	up	1.24	down	1.34	up	1.15	up	CCM2
7968637a	2.02E-06	1.03	up	1.06	up	1.03	down	2.95	down	CCNA1
8102643a	7.88E-07	1.12	down	1.32	down	1.00	down	1.21	up	CCNA2
7992594a	4.29E-05	1.05	down	1.01	down	1.18	down	1.41	up	CCNF
8095870a	9.27E-05	1.15	down	1.24	down	1.02	down	1.60	up	CCNG2
8113010a	3.19E-05	1.08	down	1.46	down	1.09	up	1.18	up	CCNH
8101212a	4.34E-05	1.12	down	1.16	down	1.01	down	1.08	up	CCNI
7929550a	1.19E-06	1.15	down	1.28	up	1.09	down	1.27	down	CCNJ
7927008a	9.27E-06	1.12	down	1.33	down	1.23	down	1.19	up	CCNY
7989037a	2.48E-05	1.06	down	1.96	down	1.21	up	1.10	down	CCPG1;DYX1C1
8052562a	1.32E-07	1.11	up	1.40	up	1.06	up	1.20	down	CCT4
8104449a	7.34E-05	1.15	up	1.37	up	1.16	up	1.10	down	CCT5
8042720a	8.73E-05	1.05	up	1.20	up	1.06	up	1.09	down	CCT7
8120719a	1.81E-08	1.33	down	2.63	down	1.05	down	3.44	up	CD109
8081657a	5.61E-07	1.64	down	2.98	down	2.21	down	2.55	up	CD200
8177222a	7.52E-08	1.61	down	7.59	down	2.26	down	11.42	up	CD24
8000848a	1.30E-05	1.47	up	1.23	up	1.32	up	1.09	up	CD2BP2
8063156a	1.90E-07	1.44	down	1.12	down	1.49	down	1.08	up	CD40
7918902a	6.87E-06	1.15	down	1.27	down	1.05	down	1.35	up	CD58
7963911a	4.25E-05	1.01	down	1.09	down	1.01	down	1.31	up	CD63
8004510a	4.19E-05	2.32	up	1.55	up	1.73	up	1.29	up	CD68
7939546a	6.50E-05	1.32	up	2.22	up	1.54	up	1.27	up	CD82
8176360a	5.36E-07	1.29	up	1.46	up	1.92	up	1.45	down	CD99
7900699a	1.74E-06	1.02	down	1.25	up	1.05	down	1.18	down	CDC20
8142878a	9.72E-07	1.05	down	1.32	up	1.26	down	1.69	down	CDC26
8163481a	2.46E-05	1.20	up	1.21	up	1.06	up	1.84	down	CDC26
7924773a	3.03E-05	1.13	down	1.61	down	1.15	down	1.32	up	CDC42BPA
7981387a	1.22E-05	1.16	up	1.29	down	1.20	up	1.14	up	CDC42BPB
7919888a	1.92E-07	1.02	up	1.43	down	1.26	down	1.24	up	CDC42SE1
8120022a	1.08E-06	1.05	up	1.24	up	1.12	up	1.14	down	CDC5L
8007071a	1.60E-07	1.03	up	1.36	up	1.03	down	1.49	down	CDC6
7902913a	2.19E-05	1.13	down	1.28	up	1.25	down	1.11	down	CDC7
7981525a	7.01E-06	1.16	up	1.32	down	1.31	up	1.35	up	CDCA4
8138489a	6.00E-08	1.02	up	1.81	up	1.42	down	1.04	up	CDCA7L
7900167a	2.70E-06	1.09	down	1.36	up	1.14	down	1.15	down	CDCA8
8081838a	1.07E-05	1.54	up	2.13	down	1.26	up	1.47	up	CDGAP
7997504a	2.07E-06	3.24	down	1.08	down	2.29	down	1.61	up	CDH13
7977888a	1.36E-06	1.18	up	1.32	down	1.03	up	1.39	up	CDH24
7996819a	5.46E-07	1.75	up	1.08	down	1.54	down	1.35	up	CDH3
8104663a	3.92E-08	2.89	up	5.41	up	1.02	up	3.58	down	CDH6
8000706a	1.13E-06	1.44	up	1.26	up	1.30	up	1.07	up	CDIPT
7997982a	2.12E-09	1.19	up	1.63	up	1.67	up	1.36	down	CDK10
7956076a	9.18E-05	1.11	up	1.15	down	1.19	up	1.11	up	CDK2
8143850a	2.87E-07	1.00	down	1.45	down	1.25	up	1.31	up	CDK5
8006409a	3.18E-08	1.04	down	1.40	up	1.17	down	1.51	down	CDK5R1
8140955a	5.72E-06	1.58	down	1.14	up	1.75	down	1.31	down	CDK6
7932177a	9.09E-05	1.14	up	1.12	up	1.05	down	1.30	down	CDNF
8012918a	9.07E-05	1.43	up	1.25	up	1.19	up	1.14	down	CDRT4;FAM18B2
8060772a	1.99E-06	1.74	down	1.02	down	1.61	down	1.03	down	CDS2
7997839a	4.21E-09	1.47	up	1.57	up	1.92	up	1.18	down	CDT1

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8116710a	1.82E-10	1.34	up	1.11	up	1.31	up	1.02	up	CDYL
8150592a	4.11E-06	1.21	up	1.01	down	1.23	up	1.53	down	CEBPD
8027566a	8.89E-05	1.18	down	1.10	up	1.20	down	1.07	down	CEBPG
8087145a	1.31E-06	1.06	up	1.06	up	1.39	down	1.39	up	CELSR3
8003553a	2.76E-09	2.15	up	1.29	up	2.48	up	1.24	down	CENPBD1
8105842a	1.09E-05	1.27	down	1.47	down	1.04	down	1.77	up	CENPH
8168794a	2.70E-07	1.05	up	1.54	down	1.11	up	1.08	down	CENPI
8112376a	1.29E-09	1.79	down	1.63	down	1.19	down	1.55	up	CENPK
7997381a	5.26E-06	1.23	up	1.21	up	1.32	up	1.26	down	CENPN
8002104a	2.30E-06	1.14	down	1.40	down	1.17	down	1.35	up	CENPT
8157534a	8.34E-06	1.20	down	1.20	up	1.03	up	2.02	down	CEP110
7944113a	6.02E-06	1.00	down	1.39	up	1.04	up	1.09	down	CEP164
7943297a	7.77E-09	1.24	down	1.84	up	1.14	down	1.30	down	CEP57
8156026a	4.76E-05	1.21	down	1.22	up	1.04	down	1.44	down	CEP78
7996345a	1.11E-05	1.45	up	1.21	down	1.40	up	1.63	up	CES2
8175755a	9.19E-09	1.11	down	1.53	down	1.03	down	1.32	up	CETN2
8002865a	3.79E-06	1.11	up	1.59	down	1.13	up	1.59	up	CFDP1;C17orf60
7978586a	3.99E-06	1.22	up	1.23	down	1.03	down	1.38	up	CFL2
8038299a	6.93E-08	1.14	down	1.27	down	1.16	down	1.58	up	CGB7;CGB5;CGB1-2
8051001a	2.28E-05	1.27	down	1.35	up	1.43	down	1.02	down	CGREF1
8041961a	1.03E-05	1.31	up	1.23	up	1.04	up	1.39	down	CHAC2
8068478a	1.58E-07	1.20	up	1.21	up	1.23	up	1.12	down	CHAF1B
8004699a	6.08E-05	1.25	up	1.06	down	1.36	up	1.08	down	CHD3
7995583a	1.43E-06	1.01	down	1.74	down	1.01	down	1.85	up	CHD9
8100382a	1.84E-06	1.31	down	1.79	down	1.36	down	1.44	up	CHIC2
7945579a	3.76E-05	1.08	up	1.25	up	1.08	up	1.13	down	CHID1
8003467a	3.48E-06	1.45	up	1.36	up	1.61	up	1.09	down	CHMP1A
8147057a	5.68E-05	1.05	up	1.66	up	1.06	up	1.17	down	CHMP4C
8010550a	7.84E-07	1.17	up	1.20	up	1.26	up	1.40	down	CHMP6
8056890a	3.39E-05	1.37	up	1.03	up	1.47	up	1.54	down	CHN1
7950983a	3.69E-08	1.11	down	2.27	up	1.29	down	1.66	down	CHORDC1
8174513a	1.13E-07	1.46	down	14.29	up	2.93	down	1.10	up	CHRDL1
7950425a	1.05E-07	1.07	down	1.48	down	1.05	down	1.03	up	CHRDL2
7987012a	1.53E-05	1.74	up	1.28	down	2.17	up	1.08	up	CHRFAM7A;CHRNA7
7910915a	6.02E-06	1.07	up	5.19	up	1.39	up	1.45	down	CHRM3
8004416a	3.91E-05	1.43	down	1.59	up	1.34	down	2.36	down	CHRNB1;FGF11
8054297a	1.16E-05	1.34	up	1.85	up	1.49	up	1.53	down	CHST10
7958202a	1.24E-08	2.38	down	2.37	down	2.40	down	2.88	up	CHST11
8131135a	7.25E-06	1.06	up	1.29	up	1.12	up	1.11	down	CHST12
7936856a	5.86E-08	1.29	down	1.44	down	1.53	down	1.85	up	CHST15
8083214a	3.25E-12	1.06	up	4.24	up	1.07	down	1.30	down	CHST2
8022666a	1.11E-05	1.19	up	1.13	down	1.13	up	1.02	down	CHST9
8002266a	3.03E-06	1.05	up	1.37	down	1.04	up	1.10	up	CHTF8;HAS3
8043585a	4.78E-07	1.26	up	1.09	up	1.17	up	1.04	down	CIAO1
8020211a	6.98E-05	1.00	down	1.18	up	1.00	down	1.18	down	CIDEA
8056829a	1.82E-06	1.23	up	1.02	down	1.21	up	1.39	down	CIR1
7981427a	7.49E-06	1.43	down	1.38	up	2.55	down	1.42	down	CKB
7983256a	3.00E-07	1.28	down	1.64	up	1.92	up	6.12	down	CKMT1A;CKMT1B
8054888a	3.33E-05	1.05	up	1.26	down	1.08	up	1.11	up	CLASP1
7902702a	4.82E-05	1.25	up	1.16	down	1.43	up	2.14	up	CLCA2
8165974a	3.75E-05	1.30	up	1.53	up	1.66	up	1.46	down	CLCN4
8167603a	4.21E-05	1.02	up	1.43	down	1.04	up	1.33	up	CLCN5
8092726a	3.90E-05	1.62	down	2.50	up	1.48	down	1.76	down	CLDN1

Transcript ID	Arsenic			Chromium		Nickel		Vanadium		Gene Symbol
	p-value	Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8083887a	1.50E-05	1.02	up	1.03	up	1.54	up	1.42	down	CLDN11
8141708a	2.43E-05	1.20	up	1.02	up	1.23	up	1.12	up	CLDN15
7998898a	1.56E-05	1.01	down	1.35	down	1.03	down	1.17	up	CLDN6
8079305a	1.00E-05	1.01	down	1.38	down	1.05	up	1.04	down	CLEC3B
8179827a	7.01E-07	1.25	up	1.10	down	1.28	up	1.14	up	CLIC1
8165334a	1.48E-05	1.32	up	2.00	up	1.12	down	2.41	down	CLIC3
8133459a	7.28E-06	1.27	up	1.04	up	1.51	up	1.02	down	CLIP2
7981142a	5.19E-05	1.43	up	1.76	down	1.01	down	1.55	up	CLMN
7969488a	1.72E-05	1.10	down	1.58	down	1.24	down	1.52	up	CLN5
8144267a	3.62E-05	1.03	down	1.42	down	1.12	down	1.13	up	CLN8
8144279a	1.31E-06	1.25	down	1.52	down	1.23	down	1.50	up	CLN8
8100428a	1.12E-05	1.14	down	1.48	down	1.32	down	1.15	up	CLOCK
8110803a	5.38E-06	1.44	up	1.45	up	1.48	up	1.29	down	CLPTM1L
7989735a	1.11E-05	1.01	up	1.08	up	1.02	down	1.41	down	CLPX
8149927a	1.78E-05	1.11	up	2.06	down	1.27	up	1.26	up	CLU
7997427a	5.49E-06	1.42	up	1.40	up	1.66	up	1.31	down	CMIP
7966089a	2.19E-06	1.01	up	1.43	down	1.09	down	1.06	up	CMKLR1
8050102a	1.92E-05	1.03	up	1.04	up	1.29	up	1.04	down	CMPK2
7996290a	1.53E-07	1.04	up	1.39	down	1.08	up	1.52	up	CMTM1;CKLF
7996318a	3.95E-07	1.14	up	1.59	down	1.43	up	1.42	up	CMTM3
8021727a	4.76E-06	1.15	up	1.28	up	1.06	up	1.50	down	CNDP2
8043782a	3.13E-06	1.12	down	1.20	up	1.14	down	1.18	up	CNGA3
7941587a	2.52E-05	1.04	down	1.15	up	1.19	up	1.86	up	CNIH2
7910022a	5.33E-05	1.08	down	1.28	up	1.07	down	1.35	up	CNIH3
8166355a	2.91E-06	1.14	down	2.76	up	1.13	down	1.16	down	CNKSR2
7917885a	1.05E-09	1.06	down	1.06	down	1.34	down	1.20	up	CNN3
7929732a	2.47E-08	1.45	down	3.04	up	1.94	down	1.97	down	CNNM1
8043666a	1.22E-05	1.10	up	1.39	up	1.21	up	1.21	down	CNNM3
8043657a	1.61E-05	1.47	up	1.24	up	1.36	up	1.00	up	CNNM4
8143088a	7.70E-05	1.10	up	1.31	up	1.07	up	1.17	down	CNOT4
8007188a	2.57E-08	1.19	up	1.48	up	1.24	up	1.61	down	CNP
8119609a	7.40E-05	1.16	up	1.05	up	1.37	up	1.06	down	CNPY3
8052735a	5.30E-06	1.52	up	1.02	down	1.31	up	1.19	up	CNRIP1
7954899a	1.15E-05	1.03	down	1.13	up	1.04	down	1.22	down	CNTN1
8007272a	6.81E-07	1.16	up	1.55	up	1.14	up	1.78	down	COASY
8056343a	2.36E-05	3.31	up	2.34	up	1.37	up	1.03	down	COBLL1
8000263a	1.26E-05	1.35	up	1.14	up	1.25	up	1.10	up	COG7
8127563a	2.06E-06	1.21	down	2.21	up	2.10	down	1.49	down	COL12A1
8069208a	6.96E-08	1.09	up	1.46	up	1.48	up	1.16	down	COL18A1
7972750a	1.08E-05	1.52	down	2.27	down	1.56	down	1.22	up	COL4A1
7970033a	2.66E-05	1.63	down	1.52	down	1.37	down	1.23	up	COL4A2;STK24
8112687a	2.96E-07	1.02	down	1.21	down	1.12	down	1.72	up	COL4A3BP
8169294a	6.26E-06	1.09	up	1.50	down	1.25	down	1.56	up	COL4A5
8159142a	3.19E-07	1.23	down	1.78	down	1.01	up	1.42	up	COL5A1
8057620a	4.14E-14	2.68	up	18.80	down	3.32	up	8.27	up	COL5A2
8081235a	2.94E-05	1.52	down	2.39	down	2.58	down	1.29	up	COL8A1
8042207a	2.46E-05	1.11	up	1.38	down	1.09	up	1.14	up	COMMD1
7926596a	1.33E-08	1.34	down	1.70	down	1.88	down	1.10	up	COMMD3;BMI1
8100145a	6.48E-05	1.15	up	1.43	down	1.09	down	1.09	up	COMMD8
7947531a	1.74E-05	1.30	up	1.32	up	1.22	up	1.18	down	COMMD9
8071289a	7.38E-05	1.38	up	1.23	up	1.33	up	1.17	up	COMT
8091048a	4.59E-07	1.13	up	1.27	up	1.12	up	1.41	down	COPB2
8013094a	5.05E-05	1.04	up	1.17	up	1.03	up	1.09	down	COPS3

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8049088a	3.11E-05	1.23	up	1.05	up	1.30	up	1.07	down	COPS7B
8047217a	2.77E-05	1.33	up	1.07	up	1.20	up	1.08	down	COQ10B
7993608a	6.47E-05	1.20	up	1.07	down	1.19	up	1.02	up	COQ7
7996041a	6.74E-06	1.14	up	1.34	down	1.09	up	1.23	up	COQ9
8162744a	1.54E-05	1.03	up	1.45	down	1.04	up	2.06	down	CORO2A
7984475a	7.37E-08	1.20	down	2.65	down	1.77	down	2.73	up	CORO2B
8003171a	2.78E-05	1.39	up	1.31	up	1.47	up	1.10	down	COTL1
8005089a	8.06E-08	1.23	up	1.43	up	1.13	up	1.49	down	COX10
7935647a	3.59E-07	1.16	down	1.40	up	1.27	down	1.63	down	COX15
7968972a	5.64E-06	1.25	up	1.35	down	1.22	up	1.05	up	COX17
8100893a	2.05E-05	1.08	down	1.29	down	1.10	down	1.27	up	COX18
7997702a	3.07E-07	1.27	up	1.16	up	1.47	up	1.16	down	COX411
8003217a	4.34E-09	1.62	up	1.43	up	1.76	up	1.26	down	COX4NB
7990436a	5.76E-05	1.01	up	1.19	down	1.10	up	1.06	down	COX5A
8051777a	1.03E-06	1.15	up	1.02	up	1.19	up	1.16	down	COX7A2L
8094169a	1.37E-09	1.19	up	2.58	down	1.13	down	2.29	up	CPEB2
7935011a	4.46E-06	1.32	down	1.16	down	1.66	down	1.04	down	CPEB3
7935679a	4.85E-09	1.30	down	1.16	up	1.18	down	1.18	up	CPN1
7995976a	1.81E-08	1.03	up	2.04	down	1.40	up	1.57	up	CPNE2
7999553a	4.46E-05	1.56	up	1.41	up	1.61	up	1.92	down	CPPED1
8040142a	5.51E-06	1.15	up	1.28	down	1.10	up	1.33	up	CPSF3
8134599a	2.22E-05	1.24	up	1.24	up	1.12	up	1.11	down	CPSF4
8138805a	9.57E-05	2.09	up	1.14	down	2.27	up	1.17	down	CPVL
7921099a	7.18E-05	1.12	down	1.13	down	1.51	down	1.18	up	CRABP2
8047839a	4.16E-05	1.06	up	1.20	down	1.05	up	1.02	down	CREB1
8143188a	1.50E-05	1.00	up	1.06	down	1.35	down	1.37	up	CREB3L2
8131996a	5.17E-05	1.42	down	1.38	down	2.18	down	1.50	up	CREB5
7999044a	4.12E-05	1.07	up	1.13	down	1.28	down	1.25	up	CREBBP
7977397a	1.36E-05	1.12	up	1.82	down	1.33	up	1.23	up	CRIP2
7997642a	9.50E-09	1.53	down	4.40	down	1.03	down	4.26	up	CRISPLD2
8006850a	6.55E-08	1.03	up	1.43	up	1.03	up	1.71	down	CRKRS
8035506a	1.39E-05	1.12	up	1.18	up	1.44	up	1.11	down	CRLF1
8014037a	9.71E-07	1.02	down	1.26	up	1.05	up	1.62	down	CRLF3
8060839a	5.31E-07	1.62	down	1.29	up	1.70	down	1.10	down	CRLS1
8065256a	2.65E-07	1.71	down	1.13	up	1.65	down	1.18	down	CRNKL1
8029978a	8.16E-05	1.03	down	1.06	up	1.02	down	1.22	up	CRX
8072009a	6.62E-05	1.04	up	1.22	up	1.06	down	1.28	down	CRYBB2P1
8081171a	8.36E-05	1.19	down	1.07	down	2.12	down	1.10	up	CRYBG3;MINA
7917037a	2.96E-07	1.03	up	1.28	down	1.44	down	2.13	up	CRYZ
7964064a	1.15E-06	1.19	up	1.19	up	1.21	up	1.12	down	CS
7961230a	4.85E-06	1.11	down	1.35	up	1.08	up	1.10	down	CSDA
7984871a	9.53E-06	1.19	up	1.07	down	1.22	up	1.27	down	CSK
8019463a	9.58E-10	1.22	up	1.20	down	1.27	up	1.03	down	CSNK1D
8064351a	2.94E-07	1.47	down	1.14	up	1.66	down	1.18	down	CSNK2A1;CSNK2A1P
7946655a	4.46E-08	1.46	down	1.17	up	1.84	down	1.07	down	CSNK2A1P
7923378a	7.64E-09	1.15	down	1.31	down	1.43	down	1.82	up	CSR1
8061138a	6.96E-08	1.98	down	1.17	down	2.43	down	1.16	up	CSR1BP
8065416a	7.46E-06	1.25	down	1.12	up	1.33	down	1.09	up	CST2
8065403a	7.99E-06	1.56	down	1.03	down	1.42	down	1.15	up	CST3
7947396a	1.91E-05	1.05	up	1.13	up	1.07	down	1.36	down	CSTF3
8136979a	5.89E-05	1.14	down	1.21	down	1.25	down	1.04	up	CTAGE4;CTAGE6
7974090a	7.20E-07	1.15	up	1.49	down	1.15	up	1.10	up	CTAGE5
8143601a	2.84E-05	1.05	down	1.27	down	1.17	down	1.03	up	CTAGE6;CTAGE4

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8021884a	2.08E-05	1.07	up	1.24	up	1.11	up	1.19	down	CTDP1
7983335a	4.21E-05	1.04	down	1.48	down	1.01	up	1.16	down	CTDSPL2
7994961a	2.89E-06	1.35	up	1.01	up	1.08	up	1.00	up	CTF1
7902290a	9.00E-05	1.12	up	1.48	up	1.70	down	1.15	down	CTH
8163063a	4.25E-05	1.46	down	1.05	up	1.51	down	1.13	down	CTNNAL1
7938422a	7.32E-05	1.36	up	1.23	up	1.10	up	1.11	down	CTR9
7898167a	3.82E-05	1.04	down	1.27	up	1.03	down	1.15	up	CTRC
7950906a	9.66E-05	1.39	up	1.40	up	1.83	down	1.35	down	CTSC
7945663a	8.10E-09	1.06	down	3.17	down	1.08	down	1.33	up	CTSD;LOC402778
7949650a	3.02E-05	1.58	down	1.12	down	1.75	down	1.12	up	CTSF
8156228a	1.56E-05	1.43	up	1.35	up	1.03	up	1.45	down	CTSL1
8156240a	2.72E-06	1.09	up	1.13	up	1.03	up	1.24	down	CTSL3
7919800a	2.86E-08	1.11	up	1.85	down	1.08	up	1.11	up	CTSS
7904018a	9.04E-07	1.19	up	1.01	up	1.04	down	1.21	down	CTTNBP2NL
7997810a	1.57E-05	1.32	up	1.38	up	1.49	up	1.05	up	CTU2
8016878a	7.86E-06	1.21	up	1.14	down	1.11	up	1.32	up	CUEDC1
7947894a	2.16E-07	1.12	up	1.23	up	1.06	up	1.23	down	CUGBP1
7943580a	9.23E-07	1.09	down	1.53	up	1.13	down	1.32	down	CUL5
8126486a	6.11E-05	1.06	up	1.18	down	1.25	up	1.49	up	CUL7
8125752a	1.03E-07	1.16	up	1.13	down	1.22	up	1.38	up	CUTA
7929768a	2.45E-06	1.05	down	1.34	up	1.12	down	1.68	down	CUTC
7936798a	6.83E-07	1.41	down	1.56	down	1.15	down	2.11	up	CUZD1
7951068a	7.20E-07	1.29	down	1.46	up	1.29	down	1.12	down	CWC15
8057441a	7.48E-05	1.18	up	1.16	up	1.08	up	1.16	down	CWC22
8095005a	3.53E-05	1.11	up	1.28	up	1.09	up	1.47	up	CWH43
8011713a	1.07E-05	1.44	up	1.78	up	2.33	up	1.57	down	CXCL16
8049471a	1.93E-06	2.08	down	1.28	down	2.25	down	1.25	up	CXCR7
8166230a	9.20E-11	1.06	down	1.83	up	1.25	down	1.41	down	CXorf15
8170213a	3.19E-08	1.13	down	1.22	down	1.04	down	1.26	up	CXorf19
8167198a	5.99E-05	1.09	up	1.38	up	1.09	up	1.06	up	CXorf25
8168447a	7.20E-05	1.30	up	1.23	down	1.07	down	1.43	down	CXorf26
8172110a	1.98E-09	1.10	down	1.55	down	1.59	down	1.53	up	CXorf38
8175642a	1.78E-05	1.15	down	1.73	down	1.21	down	1.30	up	CXorf40B
8174761a	4.34E-05	1.19	up	1.19	down	1.46	up	1.36	down	CXorf42
8175524a	9.49E-07	1.05	up	1.27	down	1.02	up	1.03	down	CXorf66
8004694a	9.24E-09	1.49	up	1.82	up	1.31	up	1.49	down	CYB5D1
8003322a	8.36E-05	1.48	up	1.56	up	1.90	up	1.52	down	CYBA
8018754a	1.58E-05	1.41	down	1.03	down	2.08	down	1.07	down	CYGB
7995552a	6.61E-07	1.12	up	1.50	down	1.09	up	1.73	up	CYLD
8176698a	4.34E-09	1.97	down	6.49	down	1.71	up	8.09	up	CYorf15A
8176709a	6.71E-08	1.55	down	4.75	down	1.59	up	3.55	up	CYorf15B
8051583a	1.88E-08	7.07	down	4.62	down	4.93	down	11.24	up	CYP1B1
8048432a	5.07E-08	1.40	up	1.31	down	1.60	up	1.44	down	CYP27A1
8054967a	2.89E-05	1.11	up	1.98	down	1.33	up	1.55	up	CYP27C1
7946742a	1.33E-05	1.48	down	3.53	down	1.09	down	2.18	up	CYP2R1
8096744a	4.49E-06	1.01	up	1.30	down	1.58	down	1.28	up	CYP2U1
8026456a	9.31E-05	1.08	down	1.03	up	1.05	down	1.35	up	CYP4F3
8018922a	6.65E-10	1.28	up	1.18	down	1.42	up	1.02	down	CYTH1
8005661a	7.28E-05	1.07	up	1.53	down	1.18	up	1.12	down	CYTSB
7974697a	2.33E-05	1.04	up	1.80	down	1.02	up	1.34	up	DAAM1
7974689a	1.62E-09	1.68	down	1.54	down	1.86	down	1.94	up	DACT1
8087236a	7.79E-06	1.27	down	1.11	down	1.20	down	1.49	up	DALRD3;WDR6
7906041a	9.17E-05	1.23	down	1.07	down	1.45	down	1.11	up	DAP3

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8180179a	2.80E-08	1.42	up	1.02	down	1.33	up	1.25	up	DAXX
8024282a	2.68E-08	1.08	down	1.17	up	1.06	up	1.35	down	DAZAP1
8007651a	9.56E-09	1.01	up	1.37	up	1.08	up	1.80	down	DBF4B
8007673a	7.94E-07	1.08	down	1.47	up	1.02	down	1.47	down	DBF4B
8044804a	3.18E-06	1.31	up	1.05	down	1.40	up	1.01	up	DBI
8003560a	3.91E-06	1.18	up	1.19	up	1.33	up	1.12	down	DBNDD1
8090960a	6.32E-05	1.23	up	1.33	up	1.27	up	1.29	down	DBR1
7973545a	4.67E-05	1.22	up	1.35	down	1.07	up	1.09	up	DCAF11
8046318a	9.21E-05	1.24	up	1.09	up	1.26	up	1.00	down	DCAF17
8016159a	9.95E-08	1.10	up	2.03	up	1.19	up	1.71	down	DCAKD
8121685a	7.17E-06	1.22	down	1.86	down	1.07	down	1.33	up	DCBLD1
8089082a	3.99E-06	1.33	down	1.20	down	1.64	down	1.10	up	DCBLD2
8095574a	1.38E-07	1.11	down	1.38	down	1.12	down	1.31	up	DCK
8097753a	1.20E-06	1.32	up	1.48	down	2.07	up	1.23	up	DCLK2
7945101a	2.39E-07	1.04	up	1.56	down	1.25	up	1.31	down	DCPS
8145660a	7.28E-05	1.08	down	1.56	down	1.15	down	1.08	up	DCTN6
8095009a	2.76E-06	1.04	down	1.57	down	1.12	down	1.12	up	DCUN1D4
7951325a	5.27E-05	1.15	down	1.34	up	1.32	down	1.04	down	DCUN1D5
8179819a	1.64E-09	1.72	up	1.29	down	2.13	up	1.31	up	DDAH2
7948534a	7.48E-05	1.07	down	1.15	up	1.24	down	1.22	down	DDB1
8128843a	6.10E-05	1.83	up	1.34	up	2.29	up	1.03	down	DDO
8179184a	2.12E-08	1.32	up	1.25	down	1.54	up	1.28	up	DDR1
7906878a	4.48E-07	5.20	up	1.02	up	2.36	up	1.91	down	DDR2
7906900a	5.39E-06	4.33	up	1.05	down	1.88	up	1.41	down	DDR2
8064601a	4.59E-07	1.70	down	1.20	up	1.73	down	1.35	down	DDRK1
8071806a	3.41E-06	1.36	up	1.05	up	1.30	up	1.01	down	DDT;DDTL;LOC391322
8040386a	7.22E-06	1.11	up	1.25	down	1.00	down	1.23	up	DDX1
7904000a	2.98E-07	1.03	up	1.33	up	1.13	down	1.38	down	DDX20
8170027a	1.45E-06	1.16	up	1.97	down	1.50	down	1.40	up	DDX26B
8164742a	5.53E-06	1.04	down	1.44	up	1.08	down	1.47	down	DDX31
8166876a	4.97E-08	1.26	down	1.15	down	1.30	down	1.14	up	DDX3X
8176624a	9.24E-09	2.98	down	23.67	down	2.12	up	29.58	up	DDX3Y
7967711a	6.12E-05	1.06	down	1.28	up	1.04	down	1.10	down	DDX51
8014574a	3.33E-05	1.05	up	1.33	up	1.02	up	1.52	down	DDX52
8103563a	1.68E-06	1.23	up	2.14	down	1.50	up	1.31	down	DDX60
8037144a	3.73E-06	1.03	down	1.37	up	1.17	down	1.08	up	DEDD2
7998072a	8.72E-06	1.32	up	1.19	up	1.60	up	1.16	down	DEF8
8060325a	1.02E-05	1.10	down	1.20	up	1.09	down	1.10	up	DEFB132
7910001a	1.68E-06	1.14	down	1.04	down	1.25	down	1.30	up	DEGS1
7900454a	1.19E-06	1.25	down	1.06	up	1.34	down	1.00	down	DEM1
7918487a	5.71E-06	1.22	down	1.67	up	1.64	down	1.01	down	DENND2D
8148476a	1.39E-07	1.16	down	2.59	down	1.02	up	1.28	up	DENND3
7962151a	6.21E-06	1.16	up	1.36	down	1.33	up	1.24	up	DENND5B
7916898a	2.13E-07	1.11	down	1.25	up	1.27	down	1.54	down	DEPDC1
8112260a	2.92E-07	1.61	down	1.08	down	1.03	down	1.19	up	DEPDC1B
7897210a	9.68E-06	1.10	up	1.46	up	1.13	up	1.03	down	DFFB
8138602a	7.54E-05	1.19	down	1.52	down	1.18	down	1.47	up	DFNA5
8153939a	4.73E-05	1.28	down	1.05	down	1.05	down	1.54	up	DGAT1
7956046a	3.17E-07	1.36	down	1.03	down	1.71	down	1.96	up	DGKA
7968800a	3.57E-07	1.20	down	1.78	down	1.93	down	1.17	up	DGKH
8143154a	8.25E-07	2.17	down	4.09	down	2.40	down	1.20	up	DGKI;DGKi
7968890a	4.43E-06	1.24	up	1.21	up	1.22	up	1.16	down	DGKZ
8042801a	1.72E-08	1.32	up	1.07	down	1.15	up	1.03	up	DGUOK

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
7899173a	2.45E-06	1.12	up	1.38	up	1.03	down	1.12	up	DHDDS
8112902a	9.67E-06	1.03	down	1.26	down	1.10	up	1.25	up	DHFR
7978260a	2.58E-05	1.21	up	1.64	down	1.08	down	1.35	up	DHRS1
8006655a	4.15E-05	1.29	up	1.25	up	1.51	up	1.83	down	DHRS11
8178377a	5.27E-08	1.40	up	1.25	up	1.46	up	1.04	down	DHX16
8112081a	2.68E-08	1.52	down	1.21	down	1.22	down	1.35	up	DHX29
8011861a	2.43E-07	1.12	up	1.48	up	1.07	down	1.27	down	DHX33
8029918a	8.69E-07	1.02	up	1.31	up	1.12	down	1.11	down	DHX34
7967588a	2.73E-05	1.07	up	1.44	up	1.14	up	1.18	down	DHX37
7997197a	4.89E-05	1.07	up	1.18	down	1.13	up	1.43	up	DHX38
8007505a	2.31E-07	1.00	down	1.47	up	1.05	up	1.73	down	DHX8
8168691a	9.07E-05	3.79	down	2.13	down	1.63	down	1.43	down	DIAPH2
7971866a	2.82E-05	1.30	down	1.66	down	1.31	down	1.14	up	DIAPH3
8112312a	9.01E-08	1.55	down	1.09	down	1.30	down	1.36	up	DIMT1L
7980485a	3.65E-07	1.41	down	1.17	up	2.09	up	6.74	down	DIO2
7931683a	7.86E-10	2.16	down	2.74	up	1.51	down	2.46	down	DIP2C
8049097a	3.78E-05	1.23	up	1.06	up	1.31	up	1.11	down	DIS3L2
7927631a	2.06E-08	1.02	down	2.42	up	1.17	up	1.19	down	DKK1
7943827a	1.52E-07	1.20	down	1.47	up	1.45	down	1.32	down	DLAT
8149413a	9.73E-05	1.11	up	1.21	down	1.06	up	1.01	down	DLC1
8012054a	4.13E-05	1.11	up	1.46	down	1.17	down	1.04	up	DLG4
8046373a	5.65E-07	1.64	up	1.27	down	1.87	up	1.25	up	DLX1
7901247a	7.52E-05	1.01	down	1.22	up	1.14	up	1.02	up	DMBX1
8171921a	1.12E-08	1.04	down	1.35	up	1.16	down	1.37	down	DMD
8131719a	7.95E-05	1.27	up	1.30	up	2.20	up	2.42	down	DNAH11
8001185a	8.14E-07	1.11	up	1.17	down	1.08	up	1.50	up	DNAJA2
7985147a	1.78E-07	2.31	down	1.25	down	3.98	down	1.32	down	DNAJA4
8154962a	2.67E-08	1.12	up	1.60	down	1.09	down	1.41	up	DNAJB5
8137627a	4.73E-07	1.25	down	1.62	up	1.10	down	1.20	down	DNAJB6;TMEM135
7932512a	8.77E-07	1.36	down	1.07	down	1.56	down	1.03	up	DNAJC1
8046759a	3.53E-07	1.21	up	1.10	up	1.15	up	1.27	down	DNAJC10
7933933a	8.27E-07	1.31	up	1.03	down	1.04	down	1.70	up	DNAJC12
7963935a	9.63E-05	1.22	up	1.04	down	1.27	up	1.01	down	DNAJC14
8104838a	5.82E-05	1.38	up	1.37	up	1.36	up	1.26	down	DNAJC21
7955211a	2.62E-06	1.41	up	1.09	up	1.49	up	1.07	down	DNAJC22
8157203a	1.81E-06	1.10	down	1.35	up	1.01	up	1.40	down	DNAJC25;DNAJC25-GNG10
7940891a	1.09E-07	1.33	up	1.04	down	1.39	up	1.10	up	DNAJC4
8015490a	7.64E-09	1.01	down	1.53	up	1.07	down	2.25	down	DNAJC7;CNP
7900159a	1.20E-06	1.71	down	1.42	down	1.67	down	1.19	up	DNAL1
7992934a	9.49E-05	1.01	down	1.01	up	1.11	down	1.37	up	DNASE1
8176076a	1.31E-07	1.18	up	1.75	down	1.02	up	1.68	up	DNASE1L1
8059580a	1.24E-07	1.35	down	5.59	down	1.73	up	7.09	up	DNER
7938118a	4.91E-05	1.27	up	1.28	up	1.15	up	1.10	down	DNHD1
7938128a	2.59E-06	1.68	up	1.18	up	1.35	up	1.28	down	DNHD1
8059222a	3.78E-10	1.40	up	1.20	up	1.47	up	1.21	down	DNPEP
8063028a	8.78E-05	1.03	up	1.19	up	1.09	up	1.28	up	DNTTIP1
8059413a	1.48E-07	2.82	up	4.32	down	3.27	up	1.15	up	DOCK10
8145365a	9.93E-06	1.19	down	1.73	down	1.11	down	1.51	up	DOCK5
7916669a	7.66E-06	1.10	down	1.02	up	1.36	down	1.39	up	DOCK7
8042917a	2.51E-06	1.21	up	1.31	down	1.11	up	1.09	up	DOK1
8158513a	2.74E-06	1.24	down	1.28	up	1.11	down	1.40	down	DOLPP1
8179926a	3.03E-05	1.07	up	1.43	down	1.15	up	1.40	up	DOM3Z
7941243a	3.48E-06	1.07	down	1.26	up	1.24	down	1.09	down	DPF2

Transcript ID	Arsenic			Chromium		Nickel		Vanadium		Gene Symbol
	p-value	Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8003700a	7.09E-08	1.32	up	1.42	up	1.09	up	1.24	down	DPH1;OVCA2
7900911a	1.81E-06	1.22	up	1.40	up	1.06	up	1.25	down	DPH2
8085660a	1.56E-05	1.36	down	1.36	down	1.33	down	1.03	down	DPH3
8056222a	2.46E-07	6.50	up	1.03	down	2.49	up	1.35	up	DPP4
8165438a	5.07E-09	1.72	down	1.38	up	2.15	down	1.58	down	DPP7
7989806a	1.77E-05	1.07	down	1.46	down	1.06	up	1.33	down	DPP8
8138988a	3.38E-05	1.29	down	1.18	up	1.68	down	1.91	down	DPY19L2P1
8027448a	8.17E-08	1.19	down	1.52	down	1.98	down	1.20	up	DPY19L3
8147375a	9.89E-06	1.01	down	1.32	down	1.22	up	1.01	down	DPY19L4
7917912a	5.45E-07	1.10	down	1.98	up	1.49	down	1.19	up	DPYD
8145470a	5.05E-07	1.03	up	1.49	down	1.20	up	1.79	up	DPYSL2
7918474a	7.59E-05	1.06	up	1.24	up	1.13	down	1.04	up	DRAM2;CEPT1
8005313a	2.85E-06	1.23	up	1.31	up	1.13	up	1.34	down	DRG2
8022711a	4.76E-09	5.42	up	8.38	up	1.28	down	8.37	down	DSC2
8022692a	9.64E-10	8.15	up	34.96	up	1.94	up	51.06	down	DSC3
8121588a	5.70E-05	1.29	up	1.18	down	1.08	down	1.28	up	DSE
8023727a	1.07E-05	6.19	up	1.27	up	4.45	up	1.81	up	DSEL
8061114a	6.12E-10	1.72	down	1.18	down	1.57	down	1.19	up	DSTN
8061211a	4.93E-06	1.67	down	1.07	down	1.64	down	1.08	down	DTD1
8020847a	4.60E-06	1.17	down	2.53	down	1.28	down	1.03	down	DTNA
7956539a	9.28E-07	1.09	up	1.02	down	1.58	down	1.19	up	DTX3
8077262a	1.43E-05	1.26	up	1.03	down	1.30	up	1.05	up	DTYMK;LOC727761
7996725a	4.47E-05	1.04	up	1.32	down	1.02	down	1.28	up	DUS2L
8006736a	8.36E-05	1.25	up	1.16	up	1.01	down	1.41	down	DUSP14
7961371a	2.57E-06	1.39	down	1.60	down	1.34	down	1.61	up	DUSP16
8075423a	2.30E-06	1.17	up	1.36	down	1.37	up	1.40	up	DUSP18;SLC35E4
8053882a	4.34E-06	1.05	up	1.61	up	1.08	up	1.32	down	DUSP2
8116548a	4.35E-08	1.32	up	1.23	down	1.72	up	1.04	down	DUSP22
7906469a	2.70E-07	1.19	down	1.33	up	1.60	down	1.03	down	DUSP23
8049684a	6.76E-05	1.25	up	1.13	up	1.19	up	1.07	up	DUSP28;ANKMY1
8150076a	4.43E-07	1.15	up	1.66	down	1.16	down	2.95	up	DUSP4
7943442a	5.94E-06	1.45	down	1.12	up	2.01	down	1.17	down	DYNC2H1
7943498a	5.23E-05	1.40	down	1.17	up	1.81	down	1.13	down	DYNC2H1
8008706a	5.46E-11	1.69	up	1.42	up	1.27	up	1.35	down	DYNLL2
8130499a	3.29E-05	1.17	down	1.63	down	1.33	down	1.22	up	DYNLT1
8172035a	6.37E-08	1.09	down	1.61	down	1.45	down	1.52	up	DYNLT3
8068551a	1.57E-06	1.06	up	1.28	up	1.02	up	1.31	down	DYRK1A
7909225a	4.93E-05	1.07	down	1.11	down	1.31	down	1.21	up	DYRK3
8042637a	2.29E-08	1.62	down	2.92	down	2.20	down	2.31	up	DYSF
8050336a	1.06E-08	1.40	up	1.33	down	1.26	up	1.43	up	E2F6
7965094a	3.32E-05	1.02	up	1.38	down	1.02	down	1.21	up	E2F7
8082003a	2.30E-05	1.09	up	1.22	up	1.29	down	1.89	down	EAF2
8167305a	1.53E-05	1.06	up	1.37	down	1.27	up	1.19	down	EBP
8084397a	3.39E-05	1.08	up	1.31	up	1.13	up	1.08	down	ECE2
8036602a	5.50E-06	1.37	down	1.10	up	1.42	down	1.10	down	ECH1
7926152a	3.03E-05	1.21	up	1.18	down	1.67	down	1.46	down	ECHDC3
7905220a	1.47E-05	1.04	up	1.13	up	1.18	down	2.10	up	ECM1
8173299a	1.36E-05	1.11	down	1.24	down	1.52	up	2.60	up	EDA2R
7990379a	1.40E-06	1.15	up	1.02	down	1.12	up	1.37	down	EDC3
8112980a	1.58E-08	2.23	down	1.71	down	4.31	down	13.10	up	EDIL3
8116921a	1.47E-05	1.56	up	1.78	down	3.79	up	1.16	down	EDN1
7942914a	8.97E-05	1.13	down	1.11	up	1.23	down	1.14	down	EED
8153457a	2.95E-09	1.29	down	1.13	down	1.39	down	1.24	up	EEF1D

Transcript ID	Arsenic			Chromium		Nickel		Vanadium		Gene Symbol
	p-value	Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8008995a	3.13E-05	1.09	up	1.27	down	1.08	up	1.08	up	EFCAB3
7960365a	1.93E-06	1.40	down	2.22	up	1.47	down	2.22	down	EFCAB4B
7960370a	2.73E-08	1.03	down	2.08	up	1.21	down	1.96	down	EFCAB4B
8113433a	8.66E-06	1.24	down	1.44	up	8.29	down	1.27	down	EFNA5
8040587a	6.56E-05	1.38	up	1.11	up	1.28	up	1.50	down	EFR3B
8016099a	5.75E-07	1.01	up	1.40	up	1.03	down	1.38	down	EFTUD2
8159354a	1.12E-05	1.04	up	1.34	up	1.19	up	1.16	down	EGFL7
8105013a	3.49E-08	1.34	up	1.18	up	1.30	up	1.19	down	EGFLAM
8041225a	1.07E-05	1.71	up	1.08	up	1.38	up	1.61	up	EHD3
8092523a	4.64E-06	2.03	up	1.11	up	1.79	up	1.48	down	EHHADH
8179884a	3.55E-09	1.36	up	1.21	up	1.51	up	1.03	up	EHMT2
7944978a	4.86E-05	1.02	down	1.19	down	1.09	up	1.11	down	EI24
8007141a	3.15E-06	1.03	down	1.09	up	1.06	down	1.17	down	EIF1
7912852a	2.67E-07	1.09	down	1.46	up	1.33	down	1.42	down	EIF1AX;EIF1AP1
8171747a	9.00E-09	1.02	up	1.37	up	1.19	down	1.17	down	EIF1AX;EIF1AP1
8176719a	1.59E-08	3.00	down	19.76	down	2.16	up	34.36	up	EIF1AY
7967473a	6.07E-05	1.01	up	1.05	down	1.09	up	1.19	up	EIF2B1
8166493a	1.95E-06	1.03	up	1.38	up	1.07	down	1.10	down	EIF2S3
7939137a	1.77E-05	1.00	down	1.21	up	1.11	down	1.09	down	EIF3M
8004497a	1.55E-05	1.06	up	1.11	up	1.03	up	1.13	down	EIF4A1
7955646a	5.25E-06	1.06	down	1.28	up	1.02	down	1.10	down	EIF4B
8135268a	3.71E-06	1.22	down	1.31	up	1.04	down	1.14	down	EIF4B;LOC643873
8049180a	1.87E-05	1.22	up	1.10	down	1.22	up	1.01	down	EIF4E2
7928119a	4.98E-08	1.31	down	1.35	down	1.48	down	1.30	up	EIF4EBP2
7928600a	6.50E-05	1.02	down	1.24	up	1.08	down	1.23	down	EIF5AL1
7934753a	2.60E-05	1.03	up	1.14	up	1.09	down	1.18	down	EIF5AL1
8065868a	5.22E-05	1.14	down	1.11	up	1.12	down	1.20	up	EIF6
8012856a	1.34E-08	1.18	up	1.54	up	1.12	up	1.29	down	ELAC2
7971197a	9.12E-07	1.02	up	1.38	down	1.42	down	1.49	up	ELF1
8102817a	1.40E-05	1.07	down	1.61	down	1.04	up	1.05	up	ELF2
8175039a	5.13E-06	1.16	up	1.42	down	1.14	up	1.01	up	ELF4
8172345a	3.43E-06	1.27	up	1.03	up	1.17	up	1.06	down	ELK1
7957665a	3.80E-05	1.27	up	1.12	down	1.36	up	1.36	up	ELK3
7988212a	3.00E-06	1.12	up	1.18	down	1.37	up	1.07	down	ELL3;SERINC4
8043131a	1.91E-06	1.35	up	1.14	up	1.31	up	1.09	down	ELMOD3
8123920a	7.16E-11	1.65	up	1.85	up	1.89	up	1.70	down	ELOVL2
8127145a	3.77E-05	1.02	up	1.07	up	1.16	up	1.05	down	ELOVL5
8112274a	1.96E-08	1.53	up	5.49	up	3.49	up	5.28	down	ELOVL7
8112007a	2.41E-05	1.94	down	1.68	down	1.06	up	1.09	up	EMB
8170850a	1.19E-08	1.17	down	1.62	down	1.27	down	1.19	up	EMD
7976698a	3.54E-09	2.12	up	2.35	down	1.74	up	1.44	up	EML1
8041592a	7.25E-06	1.30	up	1.13	up	1.14	up	1.09	down	EML4
7954090a	1.52E-08	1.01	up	1.11	down	2.07	down	2.68	up	EMP1
7999387a	1.50E-06	1.43	up	1.67	up	1.17	up	1.30	down	EMP2
8030007a	1.13E-05	1.12	down	1.31	down	1.22	down	1.38	up	EMP3
7924619a	1.62E-08	1.16	down	1.88	down	1.26	down	1.41	up	ENAH
8112615a	2.20E-05	1.45	down	1.31	down	1.35	down	1.63	up	ENC1
8152522a	8.87E-07	2.17	up	2.86	down	1.04	up	3.69	up	ENPP2
8120061a	6.00E-08	1.04	down	1.94	up	1.64	down	3.13	down	ENPP4
8149793a	1.79E-06	1.05	up	1.67	down	1.01	down	1.26	up	ENTPD4
8061428a	1.67E-05	1.85	down	1.17	up	1.79	down	1.08	down	ENTPD6
7929750a	3.51E-08	1.36	down	1.30	up	1.49	down	1.06	down	ENTPD7
8073345a	3.44E-10	1.24	up	1.46	down	1.20	up	1.45	up	EP300

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8041781a	6.84E-07	1.57	up	1.20	down	1.98	up	1.78	up	EPAS1
7899534a	4.63E-08	1.00	up	1.62	up	1.04	down	1.87	down	EPB41
8045619a	2.73E-08	1.30	up	1.25	up	1.28	up	1.34	down	EPC2
8041853a	4.61E-05	1.24	up	1.37	up	1.42	down	1.87	down	EPCAM
8098439a	4.24E-06	1.28	up	3.41	up	2.16	down	2.31	down	EPCAM
8132369a	5.65E-07	2.24	up	1.14	up	2.42	up	1.15	down	EPDR1
8095723a	4.46E-08	3.33	up	5.15	down	1.43	up	4.08	up	EPGN
8059279a	4.63E-08	1.55	up	7.04	up	2.47	up	2.27	down	EPHA4
7898809a	8.97E-05	1.09	down	1.64	down	1.14	down	1.88	up	EPHB2
7910111a	8.70E-05	1.38	up	1.35	down	1.48	up	1.17	up	EPHX1
7902957a	1.28E-07	1.13	up	1.33	up	1.13	up	2.16	down	EPHX4
8086141a	3.29E-05	1.46	down	1.21	down	1.58	down	1.21	up	EPM2AIP1
8005557a	3.72E-07	1.39	up	1.05	down	1.24	up	1.53	down	EPN2
7924351a	3.85E-06	1.18	down	1.06	down	1.45	down	1.05	down	EPRS
7971296a	4.46E-08	1.03	up	2.20	down	1.12	up	1.78	up	EPSTI1
8005994a	2.00E-05	1.16	up	1.29	up	1.14	up	1.31	down	ERAL1
8113250a	1.61E-06	1.35	down	2.29	down	1.01	up	1.76	up	ERAP1
8107044a	3.85E-07	1.83	down	3.25	down	1.45	down	1.48	up	ERAP2
8054978a	3.17E-09	1.25	up	1.16	up	1.18	up	1.12	down	ERCC3
7993298a	5.82E-08	1.54	up	1.67	up	1.25	up	1.39	down	ERCC4
8173506a	2.41E-05	1.12	up	1.22	down	1.08	up	1.30	down	ERCC6L
8112285a	4.26E-07	1.55	down	1.20	down	1.26	down	1.20	up	ERCC8
8095728a	2.02E-07	1.18	up	4.67	down	1.43	down	2.63	up	EREG
8148985a	4.89E-05	1.19	up	1.26	down	1.16	up	1.08	up	ERICH1
7935692a	9.09E-09	1.25	down	1.12	down	1.38	down	1.27	up	ERLIN1
8017555a	1.74E-05	1.23	up	1.16	up	1.02	down	1.02	down	ERN1
7925342a	4.93E-06	1.24	up	1.06	down	1.49	up	2.21	down	ERO1LB
7971513a	1.61E-05	1.01	down	1.37	down	1.34	down	1.30	up	ESD
8065032a	6.02E-06	1.80	down	1.04	up	2.25	down	1.74	down	ESF1
8082974a	1.45E-06	1.04	down	1.49	up	1.11	up	1.71	down	ESYT3
8037322a	1.09E-05	1.30	down	1.51	down	1.26	down	1.50	up	ETHE1
8138289a	3.64E-06	2.77	up	1.93	up	1.04	up	1.53	up	ETV1
8015806a	2.79E-05	1.26	up	2.11	up	1.41	up	1.29	down	ETV4
8093878a	6.85E-05	1.09	down	1.29	down	1.24	down	1.23	up	EVC
8014066a	2.30E-06	1.12	up	1.29	down	1.24	up	2.59	up	EVI2A
8014063a	3.01E-05	2.03	up	1.22	down	2.86	up	1.53	up	EVI2B
8123524a	5.05E-07	1.40	up	1.48	up	1.58	up	1.07	up	EXOC2
8104201a	1.73E-05	1.28	up	1.19	up	1.26	up	1.29	down	EXOC3
7929288a	1.94E-06	1.42	down	1.05	up	1.45	down	1.69	down	EXOC6
7935462a	4.16E-05	1.25	down	1.23	up	1.31	down	1.14	down	EXOSC1
8158714a	3.65E-07	1.05	down	1.54	up	1.11	down	1.38	down	EXOSC2
8161242a	1.27E-05	1.17	up	1.26	up	1.07	up	1.31	down	EXOSC3
8037023a	8.57E-05	1.11	down	1.20	up	1.27	down	1.07	down	EXOSC5
7968658a	3.50E-07	1.34	down	1.57	down	1.72	down	1.24	up	EXOSC8;FAM48A
8097128a	2.24E-05	1.04	down	1.29	down	1.07	down	1.48	up	EXOSC9;CCNA2
7951545a	9.81E-06	2.02	down	1.87	up	1.81	down	1.91	down	EXPH5
7918026a	3.79E-05	1.10	up	1.23	down	1.44	down	1.30	up	EXTL2
8151310a	7.77E-08	1.04	up	5.25	down	3.36	down	4.73	up	EYA1
8063187a	3.27E-07	2.01	down	4.15	down	1.85	down	1.55	up	EYA2
8122150a	1.90E-11	1.24	up	13.24	down	1.06	down	57.45	up	EYA4
8015685a	9.45E-06	1.23	down	1.26	up	1.01	down	1.90	down	EZH1
8143663a	5.31E-07	1.47	down	1.26	up	1.19	down	1.19	down	EZH2
8130505a	6.17E-06	1.12	down	1.14	up	1.34	down	1.07	down	EZR

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8106393a	9.77E-05	1.43	down	1.07	down	1.18	down	1.73	up	F2R
8112731a	7.70E-09	2.27	down	1.05	down	3.65	down	5.96	up	F2RL2
7917875a	4.67E-05	1.09	down	1.14	up	1.91	down	1.34	down	F3
8176193a	3.41E-06	1.02	down	1.26	down	1.35	down	1.37	up	F8
8170998a	1.39E-05	1.02	down	1.76	down	1.24	down	1.40	up	F8A1;F8A2;F8A3
8176245a	8.53E-06	1.07	down	1.49	down	1.24	down	1.37	up	F8A1;F8A2;F8A3
7985268a	1.99E-06	1.32	up	1.46	down	1.34	up	1.10	up	FAH
8043564a	3.16E-07	1.42	up	1.09	up	1.32	up	1.22	up	FAHD2A
8054045a	3.11E-07	1.56	up	1.17	up	1.55	up	1.06	down	FAHD2B;FAHD2A
7999173a	8.04E-05	1.34	up	1.10	down	1.04	down	1.12	up	FAM100A
8130765a	3.99E-05	1.11	up	1.35	down	1.08	up	1.08	down	FAM103A1
8018097a	3.55E-05	1.20	up	1.16	up	1.16	up	1.07	down	FAM104A;COG1
8005231a	5.01E-05	1.11	up	1.13	up	1.16	up	1.23	down	FAM106A;LOC100129396
8161727a	2.54E-05	1.01	down	1.37	up	1.05	down	1.39	down	FAM108B1
7985310a	2.84E-06	1.18	up	1.02	up	1.24	up	1.14	down	FAM108C1
8060370a	1.02E-06	1.30	down	1.20	up	1.13	down	1.04	down	FAM110A
8146533a	2.08E-07	1.87	up	2.17	up	1.39	up	2.00	down	FAM110B
7940147a	4.09E-05	1.57	down	1.27	up	1.37	down	1.14	down	FAM111B
8064557a	9.87E-05	1.29	down	1.07	down	1.38	down	1.26	up	FAM113A
8094609a	3.16E-06	1.20	up	1.28	down	1.02	up	1.43	up	FAM114A1
8088348a	9.62E-05	1.26	down	1.42	down	1.14	down	1.31	up	FAM116A
8047565a	4.82E-06	1.43	up	1.29	up	1.52	up	1.12	down	FAM117B
7945058a	1.88E-08	1.11	up	1.20	down	1.16	up	1.38	down	FAM118B
8058486a	2.20E-06	1.49	up	1.03	down	1.21	up	1.09	up	FAM119A
7956631a	1.58E-06	1.25	up	1.02	up	1.05	up	1.48	up	FAM119B
8156452a	9.36E-05	1.12	down	1.11	up	1.01	down	1.48	down	FAM120A
8162462a	2.33E-05	1.05	down	1.19	up	1.07	up	1.45	down	FAM120A;C9orf129
8162466a	1.05E-06	1.03	up	1.31	up	1.11	up	1.36	down	FAM120AOS
8173041a	7.75E-07	1.81	up	2.21	down	1.56	up	1.41	up	FAM120C
8155696a	5.00E-05	1.31	down	1.29	up	1.06	down	1.57	down	FAM122A
8175269a	2.21E-05	1.41	up	1.20	down	1.27	up	1.35	down	FAM122B
8169995a	2.93E-08	1.68	up	1.37	down	1.83	up	1.33	down	FAM122C
7969192a	4.96E-06	1.28	up	1.38	up	1.22	down	1.72	down	FAM124A
8157905a	4.70E-06	1.08	down	1.60	up	1.27	up	1.52	down	FAM125B
8138553a	1.45E-05	1.03	up	1.24	down	1.06	up	1.44	up	FAM126A
8170009a	3.64E-06	1.08	up	1.47	down	1.02	down	1.20	up	FAM127A
8048468a	3.51E-08	1.39	up	1.07	up	1.60	up	1.02	down	FAM134A
8111136a	1.72E-05	1.45	up	1.80	up	2.29	up	1.22	down	FAM134B
8015655a	3.54E-08	1.12	up	1.52	up	1.27	up	1.80	down	FAM134C
8052866a	9.58E-10	1.24	up	1.17	up	1.29	up	1.47	down	FAM136A
7928354a	7.01E-05	1.09	down	1.65	down	1.48	down	1.06	down	FAM149B1
8149324a	1.11E-05	1.03	up	1.85	up	1.11	down	1.20	up	FAM167A
8046895a	1.00E-07	6.18	up	2.31	up	2.53	up	1.98	down	FAM171B
8113083a	9.58E-10	1.22	down	2.26	down	1.32	down	2.21	up	FAM172A
8101489a	3.95E-05	1.21	down	1.73	down	1.55	down	1.39	up	FAM175A
7973918a	6.80E-05	1.25	up	1.68	down	1.09	up	1.17	up	FAM177A1
8132097a	7.79E-06	1.03	up	1.24	up	1.13	up	1.22	down	FAM188B;INMT
8005501a	8.02E-07	1.19	up	1.25	up	1.02	up	1.49	down	FAM18B2
8012924a	1.10E-05	1.23	up	1.40	up	1.02	down	1.30	down	FAM18B2
8001537a	2.49E-07	1.10	up	1.52	down	1.21	up	1.40	up	FAM192A
7936809a	2.73E-10	1.31	down	1.38	down	1.19	down	2.02	up	FAM24B;CUZD1
8022283a	8.35E-09	4.55	up	1.01	up	11.85	up	1.02	down	FAM38B
8022295a	4.64E-10	6.56	up	1.06	down	13.12	up	1.01	down	FAM38B2

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8176117a	3.94E-07	1.15	up	1.62	down	1.01	down	1.18	up	FAM3A
8084891a	5.01E-05	1.09	up	1.04	up	1.54	up	1.05	up	FAM43A
8127778a	3.03E-08	1.86	up	1.07	down	1.34	up	2.11	up	FAM46A
8050427a	1.44E-07	1.44	up	1.04	up	1.15	up	2.10	up	FAM49A
8170906a	6.65E-07	1.07	down	1.53	down	1.10	down	1.24	up	FAM50A
8116658a	3.65E-05	1.43	up	1.41	up	1.26	up	1.41	down	FAM50B
8129763a	2.65E-06	1.29	up	1.26	up	1.49	up	1.18	down	FAM54A
8003611a	2.98E-08	1.12	up	1.28	up	1.00	up	1.48	down	FAM57A
8175811a	9.10E-06	1.08	down	1.31	down	1.15	down	1.41	up	FAM58A
7967879a	3.85E-05	1.04	down	1.31	down	1.18	down	1.46	up	FAM58A;FAM58B
8040632a	3.06E-06	1.17	up	1.26	up	1.25	up	1.28	down	FAM59B
8004167a	6.48E-06	1.15	up	1.22	up	1.26	up	1.55	down	FAM64A
7996571a	8.63E-05	1.03	up	1.35	down	1.09	up	1.52	up	FAM65A
7917728a	2.39E-05	1.42	up	1.38	down	1.22	down	1.45	up	FAM69A
8174767a	2.44E-05	3.66	down	1.27	up	6.62	down	1.36	down	FAM70A
7957790a	4.35E-05	1.04	down	1.07	down	1.07	up	1.26	up	FAM71C
7951093a	2.12E-07	1.21	down	1.42	up	1.09	down	1.30	down	FAM76B
7983991a	2.62E-08	1.11	up	1.03	up	2.07	up	1.15	down	FAM81A
8148208a	5.35E-05	1.07	up	1.01	down	1.26	up	1.28	down	FAM91A1
8001924a	5.43E-08	1.10	up	1.37	down	1.17	up	1.27	up	FAM96B
8051413a	1.79E-07	1.31	up	1.47	up	1.04	up	1.10	down	FAM98A
7982574a	2.62E-05	1.02	up	1.20	down	1.01	down	1.51	down	FAM98B
8003503a	1.31E-09	1.30	up	1.65	up	1.81	up	1.65	down	FANCA;ZNF276
8118963a	2.40E-06	1.39	up	1.26	up	1.35	up	1.01	up	FANCE
8056257a	2.08E-09	3.50	up	3.93	down	1.46	up	1.17	up	FAP
7954631a	2.66E-08	1.35	up	2.95	up	1.31	up	6.95	down	FAR2
8116724a	9.34E-09	1.40	up	1.02	down	1.54	up	1.13	down	FARS2
8056693a	2.45E-05	1.36	up	1.06	up	1.29	up	1.30	down	FASTKD1
8047815a	9.50E-06	1.22	up	1.02	up	1.15	up	1.27	down	FASTKD2
8110920a	8.66E-06	1.38	up	1.68	up	1.35	up	1.53	down	FASTKD3
8064581a	8.44E-07	1.70	down	1.13	up	1.94	down	1.20	down	FASTKD5;UBOX5
8104079a	7.01E-06	1.14	down	1.51	down	1.02	down	1.25	up	FAT1
8097288a	1.66E-06	1.21	up	2.95	down	1.18	down	1.80	up	FAT4
8036777a	5.80E-07	1.30	down	1.11	up	1.44	down	1.07	down	FBL
7898263a	4.26E-07	1.06	up	1.67	down	1.29	up	1.25	up	FBLIM1
7988467a	1.49E-05	1.02	down	1.94	down	1.90	down	1.08	down	FBN1
8113800a	1.03E-05	1.19	down	1.61	up	2.52	down	1.14	up	FBN2
7994874a	3.75E-05	1.43	up	1.14	up	1.33	up	1.01	up	FBRS
7998297a	1.10E-06	1.29	down	1.04	down	1.19	down	1.95	up	FBXL16
7994967a	2.46E-05	1.19	up	1.04	up	1.12	up	1.08	down	FBXL19
8078461a	3.04E-08	1.35	down	2.15	down	1.30	down	1.86	up	FBXL2
8099449a	2.47E-08	1.01	down	1.60	down	1.20	down	1.30	up	FBXL5
8036676a	1.80E-05	1.01	down	1.26	up	1.10	down	1.22	up	FBXO17;SARS2
7985053a	8.71E-07	1.02	down	1.52	down	1.11	up	1.20	down	FBXO22;FBXO22OS
8003249a	1.88E-05	1.20	up	1.31	up	1.31	up	1.18	down	FBXO31
8152703a	2.12E-09	1.78	up	3.90	down	3.22	up	2.18	up	FBXO32
8048889a	8.89E-05	1.39	up	1.06	up	1.25	up	1.14	down	FBXO36
8105111a	5.35E-05	1.07	up	1.04	down	1.98	down	1.53	down	FBXO4
8152031a	1.52E-05	1.18	up	1.25	down	1.38	up	1.20	up	FBXO43
7897714a	2.75E-07	1.16	up	1.31	up	1.38	up	1.08	down	FBXO44
8052742a	2.31E-05	1.25	up	1.19	up	1.18	up	1.41	down	FBXO48
7897728a	5.97E-05	1.13	up	1.24	up	1.36	up	1.16	down	FBXO6
8163784a	1.04E-05	1.07	down	1.22	up	1.01	up	1.41	down	FBXW2

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8106141a	1.17E-08	1.30	down	1.38	down	1.06	down	2.02	up	FCHO2
8144669a	7.65E-06	1.12	up	1.22	down	1.39	up	1.02	down	FDFT1
7943721a	2.16E-07	1.02	down	1.33	up	1.23	down	1.21	down	FDX1
7951654a	5.64E-06	1.02	down	1.76	up	1.11	up	1.20	down	FDXACB1;ALG9
7984470a	8.08E-05	1.00	up	1.45	down	1.04	up	1.09	down	FEM1B
8064904a	3.02E-07	1.86	down	2.90	up	1.71	down	2.44	down	FERMT1
7979204a	5.32E-06	1.08	up	1.47	down	1.01	up	1.44	up	FERMT2
7952490a	1.23E-08	1.07	up	1.06	up	1.18	up	4.65	down	FEZ1
8051427a	6.30E-07	1.38	up	1.11	up	1.53	up	1.04	down	FEZ2
7954729a	2.03E-05	1.38	down	2.00	down	1.30	up	1.94	down	FGD4
8092750a	9.36E-05	1.35	up	1.08	up	1.15	up	1.23	up	FGF12
8097256a	2.05E-05	1.29	up	1.09	down	1.55	up	1.05	down	FGF2
8110265a	4.89E-05	1.39	up	1.15	up	1.31	up	1.28	down	FGFR4
8097829a	9.16E-08	1.93	down	2.22	down	1.29	down	4.44	up	FHDC1
8170119a	3.26E-10	1.09	up	2.79	down	1.23	up	1.25	up	FHL1
8054377a	1.32E-05	1.17	up	1.18	down	1.27	up	1.29	up	FHL2
7915147a	4.31E-06	1.10	up	1.16	down	1.07	down	1.31	up	FHL3
8001981a	9.78E-09	1.34	up	1.36	down	1.11	up	2.11	up	FHOD1;SLC9A5
8056323a	2.64E-08	1.43	up	1.78	down	1.23	up	1.82	up	FIGN
8138834a	4.21E-05	1.00	down	1.27	down	1.37	down	1.45	up	FKBP14
8064432a	1.02E-06	1.65	down	1.30	down	2.07	down	1.16	up	FKBP1A
8120428a	2.08E-08	1.49	down	1.15	down	1.73	down	1.15	up	FKBP1A;FKBP1C
8040530a	1.76E-05	1.23	up	1.22	down	1.26	up	1.16	up	FKBP1B;MFSD2B
8057045a	2.15E-06	1.72	up	1.14	down	1.24	down	1.39	up	FKBP7
8178749a	2.83E-05	1.30	up	1.24	up	1.25	up	1.02	up	FKBPL
7945132a	1.07E-06	1.46	up	2.13	down	1.69	up	1.08	down	FLI1;EWSR1
8080980a	1.17E-05	1.22	down	1.35	down	1.40	down	1.13	up	FLJ10213
7973158a	3.05E-07	1.09	up	1.21	down	1.19	up	1.37	up	FLJ10357
8038874a	6.71E-05	1.23	down	1.17	up	1.20	down	1.01	down	FLJ30403;LOC100132800
8017704a	5.43E-05	1.36	up	1.13	down	1.28	up	1.43	up	FLJ32065
8010499a	1.41E-05	1.45	up	1.18	up	1.34	up	1.05	up	FLJ35220
7917942a	8.53E-05	1.44	up	1.98	up	1.15	down	1.09	down	FLJ35409
8019954a	5.38E-07	1.49	up	1.02	down	1.84	up	1.78	down	FLJ35776
7918620a	7.28E-06	1.71	up	1.18	up	1.47	up	1.27	down	FLJ36116
8144228a	2.09E-08	1.73	up	1.01	down	2.08	up	1.91	down	FLJ36840
8176026a	1.68E-08	1.12	down	1.54	down	1.18	down	1.48	up	FLNA
8080714a	3.54E-08	1.38	down	1.37	down	1.33	down	1.75	up	FLNB
8135990a	4.85E-08	1.02	down	2.23	up	1.81	down	1.49	down	FLNC
8179688a	2.06E-07	1.58	up	1.08	up	1.76	up	1.26	up	FLOT1
7970763a	4.00E-07	1.58	up	1.47	up	2.00	up	2.02	down	FLT1
7975799a	3.78E-05	1.40	up	1.26	down	1.20	up	1.57	up	FLVCR2
7992737a	1.78E-05	1.15	up	1.19	down	1.01	up	1.28	up	FLYWCH2
7987145a	5.49E-05	1.07	up	1.86	down	1.30	down	2.29	up	FMN1
7910923a	2.96E-08	1.22	up	1.88	up	1.03	down	4.27	down	FMN2
8007757a	9.80E-07	1.08	down	1.30	up	1.22	up	1.49	down	FMNL1
8170326a	5.60E-10	1.24	down	1.68	down	1.61	down	1.62	up	FMR1
8058765a	9.23E-08	1.37	down	1.35	down	1.02	up	2.15	up	FN1
8010832a	1.09E-05	1.19	up	1.01	up	1.21	up	1.11	up	FN3KRP
7947969a	9.12E-07	1.07	up	1.22	up	1.03	down	1.26	down	FNBP4
8123104a	1.76E-05	1.02	up	1.35	up	1.12	up	1.19	down	FNDC1
7969060a	8.92E-08	1.02	down	1.44	down	1.41	down	1.34	up	FNDC3A
8098103a	1.88E-06	1.08	down	1.54	down	1.47	down	1.59	up	FNIP2
7997733a	6.46E-06	1.05	down	1.42	down	1.06	up	1.39	up	FOXC2

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8112592a	9.33E-08	1.07	down	1.01	up	1.23	down	2.61	up	FOXD1
8156743a	2.95E-05	1.40	up	1.25	up	1.00	up	1.28	down	FOX E1
8116582a	2.12E-06	1.18	up	1.33	up	2.01	up	1.17	down	FOXF2
7973745a	1.30E-07	1.04	down	1.73	up	1.01	down	1.13	down	FOXG1
7915408a	2.15E-06	1.15	up	1.34	up	1.02	up	1.09	down	FOXJ3
7960340a	2.40E-05	1.11	up	1.01	up	1.38	up	1.12	down	FOX M1
7971177a	4.89E-05	1.15	up	1.17	down	1.22	up	1.00	down	FOXO1
8088776a	4.16E-07	1.34	down	2.67	down	1.15	down	1.59	up	FOXP1
8119444a	3.22E-05	1.28	up	1.26	up	1.32	up	1.02	down	FOXP4
7945071a	3.37E-08	1.10	up	1.15	down	1.13	up	1.33	down	FOXRED1
7929616a	6.43E-05	1.00	down	1.26	up	1.01	up	1.20	down	FRAT1
8098714a	1.38E-05	1.09	down	1.57	down	1.10	down	1.07	up	FRG1
8161509a	2.72E-05	1.18	down	1.46	down	1.13	down	1.02	up	FRG1;FRG1B
8129071a	1.68E-05	2.41	up	1.04	down	1.10	up	1.00	down	FRK
7932132a	3.04E-08	1.24	down	1.09	down	1.58	down	1.92	up	FRMD4A
7988260a	5.31E-05	1.43	down	1.92	down	1.74	down	1.48	up	FRMD5
7974316a	5.44E-06	1.07	up	1.42	down	1.16	down	1.48	up	FRMD6
7941260a	5.03E-05	1.02	up	1.29	up	1.00	up	1.00	up	FRMD8
8100251a	3.77E-05	1.19	down	1.48	down	1.24	down	1.09	up	FRYL
8023995a	1.28E-06	1.57	down	2.11	down	1.57	down	1.21	up	FSTL3
7995655a	1.31E-09	1.08	up	1.45	down	1.04	up	1.66	up	FTO
8167270a	8.14E-05	1.02	down	1.33	down	1.20	down	1.08	up	FTSJ1
8017437a	3.97E-05	1.23	up	1.07	up	1.14	up	1.14	down	FTSJ3
8158686a	2.41E-05	1.02	up	1.25	up	1.05	up	1.35	down	FUBP3
8172244a	1.86E-07	1.32	up	1.32	down	1.04	up	1.18	down	FUNDC1
8171001a	1.43E-06	1.45	down	1.77	down	1.61	down	1.05	up	FUNDC2
7986092a	2.34E-06	1.08	up	1.41	down	1.25	up	1.15	down	FURIN
8039947a	1.02E-05	1.10	down	1.14	up	1.15	down	1.08	down	FUSIP1
7943236a	5.08E-05	1.04	down	1.32	up	1.07	down	1.10	down	FUT4
7975136a	8.15E-07	1.03	down	1.31	down	1.28	down	1.49	up	FUT8
8155699a	1.33E-07	1.02	up	1.43	up	1.06	down	1.62	down	FXN
8084146a	4.96E-05	1.07	up	1.19	up	1.04	up	1.30	down	FXR1
8012226a	3.17E-05	1.09	up	1.20	up	1.08	down	1.15	down	FXR2
8027778a	6.23E-07	1.45	down	1.09	up	1.33	down	1.04	up	FXYS5;LOC100127972
8007637a	3.01E-06	1.23	up	1.19	up	1.49	up	1.22	down	FZD2
8147766a	3.58E-07	1.13	up	1.83	up	2.03	up	1.73	down	FZD6
8047487a	2.98E-05	1.13	down	1.27	down	1.24	up	1.90	up	FZD7
7909441a	2.21E-05	1.02	up	1.73	up	1.43	down	3.20	up	G0S2
8109368a	5.48E-06	1.13	down	1.09	up	1.09	down	1.15	down	G3BP1
8101043a	1.23E-05	1.04	up	1.31	down	1.08	down	1.16	up	G3BP2
8007561a	3.81E-05	1.00	up	1.31	up	1.08	up	1.41	down	G6PC3
8176133a	4.28E-07	1.06	up	1.48	down	1.05	up	1.33	up	G6PD
8010354a	9.36E-05	1.06	down	1.43	down	1.06	down	1.27	up	GAA
8097586a	3.48E-05	1.04	down	1.67	down	1.02	down	1.16	up	GAB1
7950671a	5.78E-05	1.46	up	1.19	up	1.23	down	1.36	down	GAB2
8176163a	1.31E-09	1.07	up	2.25	down	1.13	down	1.20	up	GAB3
7953943a	1.17E-05	1.37	up	1.04	up	2.23	up	1.85	down	GABARAPL1
7997272a	1.92E-07	1.05	up	1.45	down	1.04	up	1.29	up	GABARAPL2
8175696a	2.92E-06	1.01	down	1.10	up	1.16	down	8.38	up	GABRA3
8175683a	5.02E-05	1.02	down	2.43	down	1.33	down	1.57	up	GABRE
8046283a	4.05E-06	1.66	up	1.39	up	1.55	up	1.24	down	GAD1
7942064a	3.12E-10	1.43	down	1.53	up	1.67	down	5.41	down	GAL
7980580a	1.19E-05	1.10	down	2.56	down	2.59	down	1.56	up	GALC

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8018428a	1.72E-05	1.14	up	1.00	down	1.28	up	1.02	down	GALK1
8041542a	5.49E-05	1.54	up	1.10	up	1.05	up	1.20	up	GALM
8003410a	2.35E-08	1.57	up	1.35	up	2.06	up	1.31	down	GALNS
8020903a	6.34E-06	1.11	down	1.60	up	1.02	up	3.10	down	GALNT1
8109407a	1.39E-07	1.26	up	2.12	down	1.24	up	1.53	up	GALNT10
8109426a	2.32E-06	1.16	up	2.13	down	1.19	up	1.37	up	GALNT10
8045776a	9.88E-06	1.08	down	4.38	up	1.31	down	1.21	down	GALNT13
8051298a	6.79E-07	1.01	up	1.61	up	1.06	up	2.38	down	GALNT14
7910427a	6.02E-08	1.16	down	1.50	down	1.33	down	1.41	up	GALNT2
8045835a	1.30E-07	1.97	up	2.21	down	1.31	down	3.98	up	GALNT5
7963313a	8.48E-07	1.36	up	2.23	up	1.30	up	1.93	down	GALNT6
7997414a	9.58E-10	1.50	up	1.77	up	1.52	up	1.53	down	GAN
8157858a	2.21E-05	1.14	down	1.31	up	1.01	up	1.55	down	GAPVD1
8157976a	2.33E-07	1.11	up	1.19	up	1.34	up	1.60	down	GARNL3
8070102a	3.95E-06	1.04	up	1.35	up	1.11	down	1.26	down	GART
7970329a	3.60E-07	2.22	down	1.57	down	2.13	down	1.26	up	GAS6
7998103a	5.95E-09	1.21	up	1.60	up	1.69	up	1.58	down	GAS8;LOC100130015
8090469a	1.37E-05	1.19	up	1.69	up	1.39	up	1.18	down	GATA2
8027169a	6.08E-05	1.16	up	1.13	up	1.21	up	1.26	down	GATAD2A
8075322a	4.27E-05	1.11	down	1.25	down	1.18	down	1.20	up	GATSL3;TBC1D10A
7930031a	7.29E-06	1.00	down	1.18	down	1.11	down	1.44	up	GBF1
8164833a	9.57E-05	1.05	down	1.16	up	1.11	down	1.70	down	GBGT1;RALGDS
8046003a	6.66E-09	5.94	up	1.22	up	2.12	up	12.00	down	GCA
8072931a	9.22E-05	1.06	up	1.38	up	1.24	up	1.26	down	GCAT
8116835a	6.62E-06	1.38	up	1.66	down	1.74	up	1.15	up	GCNT2
8112668a	6.12E-05	1.66	up	1.49	up	2.22	up	1.30	down	GCNT4
7922104a	1.94E-08	1.63	up	1.19	up	1.69	up	1.24	down	GCSH
8114778a	2.20E-06	1.32	up	1.44	up	1.39	up	1.17	down	GCSH
7918955a	2.46E-05	1.07	up	1.26	up	1.06	down	1.12	down	GDAP2
7999889a	1.56E-05	1.29	up	1.21	up	1.13	up	1.05	down	GDE1
8170891a	3.99E-09	1.07	down	1.74	down	1.17	down	1.31	up	GDI1
8111670a	6.69E-10	1.46	down	2.91	up	1.88	down	1.19	down	GDNF
8008802a	2.67E-06	1.31	up	1.28	up	1.35	up	1.32	down	GDPD1
8151816a	8.24E-06	1.02	down	1.63	down	1.51	down	1.93	up	GEM
8010946a	3.06E-08	1.18	up	1.49	up	1.05	up	1.46	down	GEMIN4
8115410a	9.90E-06	1.17	up	1.50	up	1.10	up	1.36	down	GEMIN5
8083630a	3.86E-05	1.08	up	1.31	up	1.00	down	1.46	down	GFM1
8112622a	3.41E-06	1.18	down	1.25	down	1.01	down	1.61	up	GFM2
8002082a	3.82E-05	1.08	up	1.20	down	1.06	up	1.53	up	GFOD2
8116418a	6.53E-08	1.05	up	2.95	down	1.62	up	1.25	up	GFPT2
7936494a	6.58E-09	6.34	down	3.67	up	1.50	down	1.30	down	GFRA1
8114415a	3.57E-05	1.00	down	1.20	up	1.17	down	1.31	down	GFRA3
8006638a	1.92E-05	1.07	up	1.16	up	1.00	up	1.44	down	GGNBP2
7910640a	7.53E-05	1.01	down	1.17	down	1.08	up	1.39	down	GGPS1
7928752a	1.09E-06	1.16	down	1.12	up	1.26	down	1.14	down	GHITM
8049199a	4.05E-07	1.12	up	1.23	up	1.09	up	1.21	down	GIGYF2
8061471a	4.63E-07	1.92	down	1.05	up	1.86	down	1.09	down	GINS1
8003204a	6.39E-07	1.33	up	1.27	up	1.87	up	1.24	down	GINS2
7902518a	3.80E-05	1.00	down	1.38	down	1.16	down	1.13	up	GIPC2
8013923a	8.05E-07	1.31	up	1.35	up	1.36	up	1.38	down	GIT1
8121749a	5.18E-05	3.18	up	1.55	down	2.29	up	1.33	up	GJA1;IFT140
7970439a	6.14E-06	1.17	down	1.26	up	1.16	down	1.18	down	GJA3
8016094a	9.27E-05	1.01	up	1.25	up	1.05	down	1.41	down	GJC1

Transcript ID	Arsenic			Chromium		Nickel		Vanadium		Gene Symbol
	p-value	Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8091120a	8.40E-06	1.20	up	1.18	up	1.17	up	1.58	down	GK5
8162006a	5.93E-06	1.07	down	1.15	up	1.13	up	2.24	down	GKAP1
8174076a	5.37E-05	1.13	up	1.40	down	1.03	down	1.13	down	GLA
8059158a	5.52E-05	1.23	up	1.05	down	1.41	up	1.05	up	GLB1L
7984517a	1.36E-07	1.25	up	1.81	down	1.17	up	1.10	up	GLCE
8160024a	2.24E-08	1.13	up	2.18	up	1.27	up	2.70	down	GLDC
8158298a	2.35E-05	1.01	up	1.47	up	1.06	up	1.32	down	GLE1
8002729a	3.00E-06	1.04	down	1.33	down	1.11	down	1.42	up	GLG1
8139212a	2.98E-07	1.25	up	1.62	down	1.25	up	1.77	up	GLI3
8155192a	1.36E-05	1.06	up	2.22	down	1.64	down	1.33	up	GLIPR2
7992956a	2.15E-05	1.04	up	1.29	down	1.02	down	1.11	up	GLIS2
8159900a	3.44E-10	1.50	down	2.06	down	1.81	down	4.39	up	GLIS3
8126135a	1.07E-05	1.01	down	1.18	up	1.12	up	1.10	down	GLO1
8004922a	4.46E-05	1.07	up	1.20	down	1.57	up	1.04	up	GLP2R
8098006a	8.55E-05	1.37	down	2.06	down	1.54	down	1.19	up	GLRB
8113214a	1.05E-05	1.16	up	1.52	down	1.10	up	1.79	up	GLRX
7923027a	1.10E-05	1.00	up	1.08	down	1.24	down	1.21	up	GLRX2
8080964a	3.23E-07	1.06	down	1.78	down	1.50	down	2.93	up	GLT8D4
7986323a	8.80E-07	1.18	down	1.20	up	1.15	down	1.17	down	GLTSCR2
7934852a	1.46E-07	1.13	down	1.26	up	1.16	down	1.04	down	GLUD1;GLUD2
7922689a	1.04E-08	1.72	up	1.15	up	1.84	up	4.22	down	GLUL
8154951a	2.19E-08	1.74	up	1.10	up	2.04	up	8.98	down	GLUL
7940135a	6.45E-07	1.38	down	1.25	up	1.58	down	1.04	up	GLYATL1
7948354a	5.52E-06	1.29	down	1.28	down	1.75	down	2.20	up	GLYATL2
7999233a	1.59E-07	1.03	down	1.30	down	1.42	down	1.36	up	GLYR1
8109344a	8.03E-05	1.11	up	1.14	down	1.31	up	1.49	up	GM2A
8042487a	8.50E-05	1.25	down	1.10	up	1.22	down	1.05	down	GMCL1
7979260a	9.71E-05	1.16	up	1.33	down	1.04	up	1.12	up	GMFB
8117225a	3.13E-07	1.28	up	1.08	down	1.37	up	1.03	up	GMNN
8117034a	2.35E-06	1.70	up	1.74	up	2.04	up	1.67	down	GMPR
7973660a	4.07E-05	1.25	up	1.03	down	1.23	up	1.09	down	GMPR2
8083523a	2.31E-05	1.03	up	1.33	up	1.03	up	1.16	down	GMPS
8137865a	1.14E-05	1.20	up	1.09	up	1.30	up	1.04	up	GNA12
8024572a	2.48E-05	1.23	up	1.28	down	1.70	up	1.27	up	GNA15
8020164a	7.74E-06	1.36	up	1.18	up	2.19	up	2.11	down	GNAL
8071671a	1.91E-06	1.04	down	1.53	up	1.57	up	1.11	down	GNAZ
8161174a	7.28E-05	1.44	up	1.04	up	1.43	up	1.08	down	GNE
7946559a	9.76E-06	1.04	down	1.16	up	1.01	up	1.45	down	GNG10;DNAJC25-GNG10
8134257a	6.86E-07	3.84	up	1.00	down	4.89	up	1.28	up	GNG11
7916843a	1.01E-06	1.02	down	1.14	down	1.11	down	1.16	up	GNG12
7925250a	1.37E-05	1.18	down	1.19	down	1.17	down	1.94	up	GNG4
7915015a	8.68E-05	1.05	down	1.12	up	1.19	down	1.13	down	GNL2
8167797a	1.85E-06	1.33	up	1.10	up	1.13	up	1.35	down	GNL3L
8114787a	3.86E-05	1.20	down	1.22	up	1.21	down	1.12	down	GNPDA1
8100085a	4.09E-05	1.06	up	1.66	down	1.22	down	1.08	up	GNPDA2
8164105a	5.26E-05	1.00	down	1.20	up	1.11	up	1.45	down	GOLGA1
7987114a	1.64E-05	1.08	up	1.20	down	1.30	up	1.28	down	GOLGA9P;FAM7A3;FAM7A1
7987139a	1.47E-05	1.18	up	1.23	up	1.29	up	1.37	down	GOLGA9P
8162117a	4.78E-07	1.31	down	1.17	up	1.38	down	1.61	down	GOLM1;LOC100293491
8111331a	5.29E-05	1.13	up	1.22	up	1.15	up	1.18	down	GOLPH3
8046306a	1.12E-07	1.30	up	1.24	up	1.15	up	1.01	down	GORASP2
8006148a	2.94E-05	1.09	up	1.14	up	1.06	up	1.44	down	GOSR1
8007904a	8.51E-09	1.10	up	1.75	up	1.22	up	1.77	down	GOSR2

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
7935627a	5.60E-10	1.31	down	1.68	up	1.19	down	1.43	down	GOT1
8148715a	5.59E-06	1.19	down	1.38	down	1.12	down	1.55	up	GPAA1
8016077a	1.64E-07	1.12	down	1.23	up	1.06	down	1.43	down	GPATCH8
8105463a	7.00E-10	1.47	down	1.21	down	1.22	down	1.42	up	GPBP1
8045816a	1.33E-08	1.62	up	1.11	down	1.20	up	1.06	up	GPD2
8131069a	6.88E-07	1.50	up	1.39	up	1.70	up	1.42	down	GPER
8027621a	1.29E-05	1.14	down	1.30	up	1.30	down	1.11	up	GPI
8172548a	3.59E-07	1.25	up	1.22	down	1.16	up	1.11	down	GPKOW
7913978a	2.04E-08	1.34	up	1.40	up	1.11	up	1.04	up	GPN2
8131844a	7.85E-08	3.88	up	1.23	up	6.72	up	3.03	down	GPNMB
8058450a	2.13E-07	1.04	up	1.21	up	1.16	down	2.05	up	GPR1
8022338a	7.29E-06	1.38	up	1.19	down	1.36	up	1.05	up	GPR125
8099612a	8.33E-06	1.40	up	1.30	down	1.31	up	1.15	down	GPR125
8122365a	5.08E-06	1.01	up	1.63	down	1.26	up	1.61	down	GPR126
7974372a	3.59E-07	1.11	down	2.45	down	1.09	down	1.76	up	GPR137C
7949796a	8.00E-05	1.01	down	1.27	up	1.02	down	1.11	up	GPR152;CABP4
8083839a	5.86E-08	1.29	up	2.53	up	1.57	up	3.21	down	GPR160
7987439a	9.07E-07	1.18	up	2.27	down	1.02	down	1.18	up	GPR176
8157727a	2.29E-05	1.01	up	1.27	up	1.00	down	1.93	down	GPR21
8045336a	2.56E-09	1.57	up	1.58	down	1.53	up	2.79	up	GPR39;LYPD1
8037614a	7.71E-05	1.45	up	1.09	down	1.80	down	1.22	down	GPR4
7996081a	1.87E-07	1.61	up	1.97	down	2.50	up	2.23	up	GPR56
8128316a	1.11E-06	1.03	down	2.01	up	1.04	down	1.05	up	GPR63
8052143a	4.76E-05	1.09	up	1.27	up	1.08	down	1.43	down	GPR75;ASB3;LOC100302652
8168968a	4.06E-05	1.03	up	1.58	down	1.34	down	1.09	down	GPRASP1
7999909a	2.74E-09	3.09	up	1.43	down	3.29	up	1.40	down	GPRC5B
8009639a	4.73E-05	1.16	up	1.01	down	1.32	up	1.06	down	GPRC5C
7995362a	5.44E-07	1.19	down	1.50	up	1.24	down	1.53	up	GPT2
7901460a	7.29E-08	1.95	down	1.39	up	2.56	down	4.00	down	GPX7
8105348a	1.45E-05	1.42	down	1.39	down	1.38	down	1.36	up	GPX8
8081758a	4.47E-05	1.88	up	1.33	up	1.89	up	1.21	down	GRAMD1C
8018364a	2.98E-07	1.25	up	1.22	up	1.11	up	1.15	down	GRB2
8155250a	7.82E-05	1.20	up	1.01	down	1.20	up	1.11	down	GRHPR
7964759a	3.49E-06	1.47	up	2.11	up	1.20	down	1.50	down	GRIP1
8172504a	1.86E-05	1.18	up	1.30	down	1.03	down	1.24	down	GRIPAP1
8007620a	7.49E-06	1.02	down	1.16	up	1.13	up	1.60	down	GRN
8100834a	1.14E-05	1.07	down	1.25	up	1.20	down	1.09	up	GRSF1
8003844a	3.98E-06	1.23	up	1.25	up	1.04	up	1.33	down	GSG2
7999532a	1.71E-06	1.25	up	1.50	up	1.02	up	1.27	down	GSPT1
8065817a	2.26E-05	1.21	up	1.13	up	1.37	up	1.10	up	GSS
8127072a	1.12E-05	1.23	up	1.01	up	1.03	down	3.20	up	GSTA1
8127065a	3.75E-05	1.06	up	1.04	down	1.13	down	1.67	up	GSTA2
8127094a	1.69E-05	1.34	up	1.98	down	1.23	down	1.40	up	GSTA4
8096688a	5.22E-05	1.12	down	1.40	down	1.32	down	1.13	up	GSTCD
7918379a	2.90E-05	1.05	up	1.35	up	1.42	down	1.33	down	GSTM3
7930304a	2.21E-06	1.14	down	1.07	down	1.26	down	1.56	up	GSTO1
7930311a	6.39E-05	1.07	up	1.28	down	1.38	down	1.34	up	GSTO2
8095074a	3.43E-05	1.10	down	1.23	up	1.06	down	1.00	down	GSX2
8055606a	4.87E-05	1.30	up	1.09	down	1.37	up	1.00	down	GTDC1
7989315a	4.77E-05	1.04	down	1.47	down	1.00	up	1.14	down	GTF2A2
8033135a	6.00E-05	1.02	up	1.33	up	1.08	up	1.15	down	GTF2F1
7968915a	5.33E-05	1.04	down	1.29	down	1.47	down	1.30	up	GTF2F2
8177674a	2.53E-05	1.10	up	1.21	down	1.23	up	1.50	up	GTF2H2;GTF2H2B-D

Transcript ID	Arsenic			Chromium		Nickel		Vanadium		Gene Symbol
	p-value	Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
7959623a	4.91E-08	1.22	down	1.18	up	1.24	down	1.00	up	GTF2H3
8140170a	1.22E-06	1.03	up	1.76	down	1.05	up	1.30	up	GTF2IRD2/B;GTF2IRD2P
7968242a	5.32E-08	1.06	up	1.44	down	1.16	down	1.59	up	GTF3A
8051075a	3.66E-07	1.25	up	1.20	up	1.18	up	1.07	down	GTF3C2
8158918a	5.75E-05	1.11	down	1.40	up	1.02	down	1.39	down	GTF3C4
8158961a	1.83E-06	1.04	down	1.32	up	1.10	up	1.53	down	GTF3C5
8171079a	3.32E-10	1.51	up	1.51	up	1.88	up	1.46	down	GTPBP6
7910241a	9.84E-08	1.03	up	1.30	down	1.25	down	1.22	up	GUK1
8046906a	2.32E-08	7.74	up	6.01	up	11.27	up	10.18	down	GULP1
8165817a	2.20E-05	1.36	down	1.88	up	1.21	down	3.52	down	GYG2
8045009a	3.92E-10	1.44	up	2.36	down	1.38	up	1.60	up	GYPC
8061373a	1.61E-05	1.66	down	1.13	down	1.74	down	1.01	down	GZF1
8072926a	3.81E-05	1.55	down	1.59	down	1.89	down	1.33	up	H1FO
7952179a	9.15E-06	1.03	up	1.34	up	1.15	up	1.22	down	H2AFX
8114225a	4.32E-05	1.15	down	1.05	up	1.19	down	1.02	down	H2AFY
8101945a	7.11E-06	1.07	down	1.23	down	1.12	down	1.17	up	H2AFZ
8102860a	3.24E-06	1.10	down	1.35	down	1.18	down	1.11	up	H3F3A;H3F3B;LOC440926
8169740a	3.60E-06	1.06	down	1.32	down	1.11	down	1.13	up	H3F3A;H3F3B;LOC440926
8085608a	8.95E-06	1.69	down	1.11	down	1.18	down	1.23	down	HACL1
8096753a	1.36E-05	1.07	down	1.33	down	1.19	down	1.39	up	HADH
7977841a	9.15E-08	1.00	down	1.68	down	1.07	up	1.47	up	HAUS4
8132843a	1.11E-05	1.03	up	1.44	up	1.07	down	1.32	down	HAUS6
8175782a	1.13E-05	1.01	up	1.61	down	1.07	down	1.22	up	HAUS7;TREX2
8114572a	4.06E-05	1.24	down	2.30	down	1.38	down	1.53	up	HBEGF
7991750a	1.30E-05	1.19	up	1.41	down	1.12	up	1.15	up	HBZ
8165995a	4.57E-06	1.05	down	1.36	up	1.11	down	1.11	down	HCCS
8009513a	6.49E-05	1.12	down	1.41	down	1.10	down	1.21	up	hCG_1644301
7930205a	6.94E-06	1.30	up	1.09	up	1.16	up	1.31	down	hCG_2024410
8089911a	1.11E-06	2.21	up	2.43	down	1.43	up	1.51	up	HCLS1
8167369a	4.06E-06	1.11	up	1.48	down	1.15	up	1.12	down	HDAC6
8173531a	1.58E-08	1.12	up	1.46	down	1.04	up	1.24	down	HDAC8
7991070a	5.10E-06	1.02	up	1.42	down	1.14	up	1.31	down	HDFRFP3
8163505a	1.46E-05	1.06	up	1.38	up	1.18	up	1.48	down	HDHD3
8060225a	7.92E-06	1.24	up	1.09	up	1.27	up	1.02	up	HDLBP
8131000a	1.01E-07	1.09	up	1.26	up	1.29	up	1.16	down	HEATR2;LOC727799
8051464a	1.14E-06	1.24	up	1.00	down	1.28	up	1.08	down	HEATR5B
8122317a	7.90E-08	1.29	up	1.56	down	1.27	up	1.07	down	HEBP2
8122343a	4.66E-05	1.10	up	1.17	down	1.34	up	1.10	down	HECA
7956894a	9.11E-05	1.29	up	1.18	up	1.05	up	1.42	down	HELB
7929438a	8.10E-06	1.30	down	1.16	up	1.22	down	1.22	down	HELLS
7986863a	2.76E-05	1.04	up	1.34	down	1.21	up	1.29	down	HERC2
7986701a	4.51E-05	1.03	down	1.22	down	1.12	up	1.32	down	HERC2P2;HERC2P3
8001099a	1.43E-05	1.00	up	1.33	down	1.15	up	1.35	down	HERC2P2-4
8096385a	5.01E-06	1.24	up	1.59	down	1.11	down	1.37	up	HERC3
8096361a	4.91E-08	1.84	up	3.63	up	2.84	up	3.01	down	HERC5
8096335a	9.43E-05	1.44	up	1.16	up	1.94	up	1.59	down	HERC6
8059989a	1.23E-06	1.18	up	1.02	down	1.35	up	1.04	up	HES6
8106252a	1.05E-09	1.09	down	1.14	down	1.04	up	1.86	up	HEXB
8007750a	3.64E-05	1.24	up	1.22	up	1.20	up	1.11	down	HEXIM2
8117343a	1.98E-05	1.55	up	1.16	down	1.33	up	1.28	up	HFE
7929282a	1.61E-05	1.07	down	1.23	up	1.15	down	1.35	down	HHEX
8097628a	1.05E-09	1.18	up	16.69	down	1.09	down	1.79	up	HHIP
8138776a	2.27E-06	1.04	up	1.41	down	1.08	up	1.51	up	HIBADH

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
7944435a	9.28E-07	1.04	up	1.46	up	1.07	up	1.30	down	HINFP
8121886a	3.90E-07	1.07	up	1.38	up	1.68	up	1.44	down	HINT3
8000748a	1.57E-07	1.33	up	1.41	down	1.21	up	1.22	up	HIRIP3
7988124a	1.69E-08	2.37	down	1.06	up	1.38	down	2.28	down	HISPPD2A
8124430a	2.27E-05	1.32	down	1.57	down	1.46	down	1.19	up	HIST1H1D
8124540a	2.24E-06	1.35	up	1.38	down	1.21	up	1.00	up	HIST1H2AM
8117382a	7.27E-05	1.48	up	1.18	up	1.14	up	1.30	down	HIST1H2BD
8117426a	7.78E-05	1.46	down	1.14	up	1.37	down	1.05	up	HIST1H2BH
8124510a	5.30E-08	1.23	up	1.43	down	1.25	up	1.01	down	HIST1H2BL
8117594a	2.74E-06	1.01	up	2.32	down	2.08	up	1.19	up	HIST1H2BM
8124537a	4.46E-08	1.08	down	2.63	down	1.11	up	1.37	up	HIST1H3J
8117422a	1.66E-05	1.30	down	4.13	down	4.79	down	2.22	down	HIST1H4F
8124534a	7.23E-05	1.05	up	1.07	down	1.15	up	1.14	down	HIST1H4L
7919642a	4.66E-06	1.16	down	1.51	down	1.21	down	1.06	up	HIST2H2AB
7919584a	8.32E-05	1.77	up	1.04	down	1.00	down	1.32	down	HIST2H2BE-F;HIST2H2BA
7919627a	1.01E-06	1.96	up	1.56	up	1.35	up	2.45	down	HIST2H4A;HIST2H4B
8116910a	6.86E-06	1.14	up	1.55	down	1.73	up	1.06	down	HIVEP1
7915392a	4.50E-06	1.46	up	1.19	down	1.23	up	1.41	up	HIVEP3
8042942a	4.57E-06	1.06	up	1.88	up	1.83	down	1.46	up	HK2
8180086a	1.16E-07	2.15	up	1.13	down	1.10	down	1.65	up	HLA-DMA;HLA-DMB
8179103a	1.12E-05	1.30	up	1.09	up	1.38	up	1.06	down	HLA-E;HLA-B;HLA-C
8008588a	1.33E-08	1.30	up	2.47	down	1.51	down	5.76	up	HLF
7908204a	1.74E-05	1.19	up	1.11	down	1.15	up	1.02	up	HMCN1
8170468a	2.81E-05	1.50	down	1.59	down	1.33	down	1.27	up	HMGB3
8106280a	3.43E-07	1.11	down	1.54	down	1.28	up	1.37	up	HMGCR
8111941a	1.40E-07	1.84	up	1.46	down	3.11	up	2.01	down	HMGCS1
8117510a	5.06E-09	1.15	up	1.60	down	1.29	up	1.07	up	HMGN4
7992987a	5.86E-08	1.13	up	1.39	down	1.41	down	1.76	up	HMOX2
7992337a	2.21E-05	1.04	up	1.18	down	1.20	down	1.20	up	HN1L;CRAMP1L
7959234a	6.82E-05	1.19	up	1.10	down	1.23	up	1.12	down	HNF1A
7995574a	3.77E-05	1.11	down	1.00	down	1.13	down	1.09	down	HNRNPA1;HNRPA1L-2
8168852a	2.96E-05	1.01	up	1.49	down	1.25	down	1.23	down	HNRNPH2
8162047a	4.74E-05	1.05	down	1.09	up	1.05	down	1.09	down	HNRNPK
8036613a	2.50E-05	1.07	down	1.03	up	1.04	down	1.16	down	HNRNPL
7925565a	7.03E-05	1.09	down	1.09	up	1.18	down	1.08	down	HNRNPU
8034313a	1.68E-07	1.14	down	1.00	down	1.16	down	1.06	down	HNRPA1L-2;HNRPA1
8101340a	3.49E-07	1.21	down	1.17	down	1.28	down	1.07	up	HNRPDL
8051605a	5.30E-05	1.05	down	1.14	down	1.13	down	1.11	up	HNRPLL
7991034a	1.65E-05	1.47	down	1.08	down	1.29	down	2.45	up	HOMER2
8100507a	1.99E-08	1.03	up	1.30	down	1.04	down	1.20	up	HOPX
8072304a	1.28E-05	1.12	up	1.40	down	1.08	up	1.12	up	HORMAD2
8138708a	2.05E-07	1.51	up	1.09	down	2.37	up	1.52	down	HOXA1
8138765a	6.11E-09	1.05	down	1.53	up	1.04	up	1.45	down	HOXA11
8138770a	3.11E-05	1.02	up	1.05	up	1.30	up	1.07	down	HOXA13
8138718a	4.43E-07	1.09	up	1.00	down	2.16	up	1.65	down	HOXA2
8138721a	1.57E-06	1.19	up	1.21	up	1.57	up	1.23	down	HOXA3
8138728a	6.48E-06	1.32	up	1.05	up	1.50	up	1.07	down	HOXA4
8138735a	7.12E-05	1.20	up	1.18	up	1.28	up	1.26	down	HOXA5
8016487a	2.29E-06	1.07	up	1.45	up	1.48	up	1.01	up	HOXB13
8016438a	1.44E-08	1.23	down	1.89	down	1.26	down	2.33	up	HOXB2
8016444a	1.27E-07	1.23	down	1.39	down	1.33	down	1.54	up	HOXB3
8016452a	1.26E-05	1.01	up	1.24	down	1.02	down	1.37	up	HOXB4
8016468a	5.90E-05	1.03	up	1.08	down	1.07	up	1.97	up	HOXB7

Transcript ID	Arsenic			Chromium		Nickel		Vanadium		Gene Symbol
	p-value	Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
7955869a	5.68E-06	1.37	down	2.79	up	1.31	up	1.24	up	HOXC8
8040238a	6.55E-10	1.68	up	1.46	down	1.67	up	2.27	up	HPCAL1
8101449a	1.59E-05	1.24	down	2.21	down	1.42	down	1.19	up	HPSE
7946167a	6.18E-06	1.02	down	1.31	up	1.08	down	1.06	down	HPX
8149652a	2.33E-06	1.09	up	1.50	down	1.09	up	1.15	down	HR
8077851a	3.20E-05	1.27	down	1.72	down	1.25	down	1.11	up	HRH1
8151942a	3.04E-07	1.41	up	1.25	up	1.28	up	1.71	down	HRSP12
8050594a	9.26E-06	1.40	up	1.01	up	1.43	up	1.22	up	HS1BP3
7898677a	1.05E-05	1.61	up	1.98	up	1.69	up	1.19	down	HS6ST1
8055130a	2.24E-08	1.41	up	1.40	up	1.55	up	1.46	down	HS6ST1
7997520a	1.54E-05	1.03	up	1.31	up	1.35	up	1.38	down	HSBP1
8172905a	1.93E-09	1.18	up	1.23	down	1.16	up	1.18	down	HSD17B10
7939465a	6.28E-05	1.04	up	1.30	up	1.01	up	1.24	down	HSD17B12
8107532a	5.70E-05	1.42	down	1.24	down	1.41	down	1.05	down	HSD17B4
7995007a	2.98E-05	1.43	up	1.03	up	1.36	up	1.17	up	HSD3B7
8003116a	2.56E-09	1.61	up	1.38	up	2.09	up	1.20	down	HSDL1
8157233a	1.52E-05	1.24	down	1.19	up	1.09	down	1.63	down	HSDL2
7936516a	7.65E-09	1.05	up	2.84	up	1.81	up	1.36	up	HSPA12A
8069532a	2.33E-07	1.37	up	1.30	down	1.14	up	1.43	up	HSPA13
7975076a	1.69E-06	1.78	up	2.11	down	1.00	up	1.48	up	HSPA2
8097335a	2.69E-05	1.24	down	1.64	up	1.20	down	1.16	down	HSPA4L
8164165a	2.82E-05	1.08	down	1.17	up	1.23	down	1.02	down	HSPA5
8042283a	8.03E-06	1.56	up	1.00	up	1.36	up	1.59	down	HSPC159
8058052a	6.39E-05	1.09	up	1.19	up	1.03	up	1.06	down	HSPD1
7913450a	1.30E-09	1.25	down	1.54	down	1.80	down	2.09	up	HSPG2;LDLRAD2
8170166a	1.99E-07	1.15	up	1.37	down	1.14	up	1.31	down	HTATSF1
8127692a	2.20E-05	1.18	up	1.09	down	1.15	up	1.13	down	HTR1B
7913566a	1.94E-05	1.55	up	1.16	down	2.27	up	1.55	down	HTR1D
7934970a	4.81E-05	1.19	down	1.15	up	1.58	down	1.40	up	HTR7
7931097a	6.94E-05	1.19	up	1.63	down	1.11	down	1.71	up	HTRA1
8042905a	2.13E-07	1.32	up	1.35	up	1.26	up	1.08	down	HTRA2;LOXL3
8172914a	1.41E-05	1.19	up	1.15	down	1.12	up	1.22	down	HUWE1
7915529a	2.72E-06	1.33	down	1.07	down	1.13	down	1.55	up	HYI;KIAA0467
7945040a	2.03E-07	1.09	down	1.20	down	1.02	down	2.93	down	HYLS1
7952145a	2.18E-05	1.05	down	1.41	up	1.06	down	1.13	down	HYOU1
8040163a	2.42E-07	1.11	up	1.84	down	1.16	up	1.14	up	IAH1
8162313a	8.50E-05	1.18	down	1.09	up	1.11	down	1.23	down	IARS
8070720a	2.93E-08	1.02	down	1.73	up	1.15	up	2.41	down	ICOSLG
8061564a	7.19E-05	1.05	down	2.66	down	1.47	up	2.17	up	ID1
8117120a	1.19E-08	1.57	up	1.11	down	1.72	up	1.03	up	ID4
7991374a	3.18E-08	1.30	up	2.61	down	1.40	up	1.70	up	IDH2
7985134a	2.48E-05	1.03	up	1.02	up	1.05	up	1.34	down	IDH3A;ACSBG1
8064522a	1.51E-06	1.43	down	1.06	up	1.74	down	1.08	down	IDH3B
8175844a	9.59E-07	1.13	down	1.56	down	1.17	down	1.14	up	IDH3G
8175593a	8.89E-09	1.27	down	2.05	down	1.53	down	2.03	up	IDS
8170390a	4.37E-08	1.19	down	1.83	down	1.43	down	1.90	up	IDS;LOC727913
8179704a	1.47E-07	1.65	up	1.34	down	1.60	up	1.26	up	IER3
7976443a	3.92E-08	2.51	up	1.07	down	1.09	up	1.12	up	IFI27
7976436a	8.88E-07	1.23	up	1.13	down	1.14	up	1.18	up	IFI27L1
7981046a	3.05E-07	1.21	up	1.48	down	1.01	down	1.45	up	IFI27L2
8056285a	6.85E-08	2.54	up	1.05	up	2.13	up	1.94	down	IFIH1
7937335a	1.82E-10	3.07	up	1.16	down	3.61	up	2.11	down	IFITM1
7937330a	2.48E-07	1.25	up	1.30	down	1.25	up	1.15	down	IFITM2

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
7945371a	2.40E-05	1.33	up	1.08	down	1.38	up	1.08	down	IFITM3
8160435a	2.48E-07	1.09	down	2.33	down	2.05	down	1.86	up	IFNE
8129861a	5.45E-05	1.08	up	1.23	down	1.30	up	1.03	up	IFNGR1
8068280a	1.96E-05	1.00	down	1.37	down	1.05	up	1.05	up	IFNGR2
8168087a	1.79E-09	1.36	up	1.32	down	1.22	up	1.03	down	IGBP1
8008151a	9.94E-06	1.96	down	1.69	up	1.88	down	1.07	down	IGF2BP1
8092552a	4.92E-06	1.04	up	1.50	up	1.11	up	1.45	down	IGF2BP2
8100541a	4.29E-09	1.11	down	2.07	down	1.15	up	2.10	up	IGFBP7;POLR2B
8029779a	8.21E-13	1.07	up	5.62	down	1.10	up	1.02	down	IGFL1
8030823a	3.72E-05	1.16	down	1.48	up	1.29	down	1.11	down	IGLON5
8163023a	5.12E-06	1.12	down	1.33	up	1.08	down	1.38	down	IKBKAP
7909188a	2.05E-05	1.12	up	1.34	down	1.06	down	1.30	up	IKBKE
8170955a	6.76E-05	1.05	up	1.39	down	1.23	down	1.14	up	IKBKG
8068254a	5.41E-07	1.47	up	1.07	up	1.45	up	1.28	down	IL10RB
8039484a	4.69E-05	1.26	down	1.56	down	1.66	down	1.35	up	IL11
8169580a	1.21E-07	1.61	up	1.69	down	1.73	up	1.46	down	IL13RA1
8043995a	3.65E-08	2.32	up	2.47	down	1.52	up	3.19	up	IL1R1
8084794a	3.06E-05	1.12	up	1.73	down	1.06	up	1.17	down	IL1RAP
8044008a	2.40E-05	1.05	down	1.35	down	1.16	down	1.17	up	IL1RL2
8105411a	1.55E-07	1.17	down	1.42	down	1.53	down	6.01	up	IL31RA
7994280a	3.34E-05	1.11	up	1.39	down	1.23	up	1.18	up	IL4R
8131803a	4.39E-07	1.93	up	1.34	down	3.29	up	1.38	up	IL6
8112139a	1.05E-09	1.65	down	1.46	down	1.45	down	1.43	up	IL6ST
8104901a	4.32E-06	1.98	up	3.23	up	1.93	up	2.16	down	IL7R
7922018a	1.22E-08	2.84	down	1.46	up	2.63	down	1.07	up	ILD2
8025697a	4.18E-05	1.03	down	1.19	up	1.02	down	1.11	down	ILF3
8059969a	1.75E-05	1.29	up	1.00	up	1.31	up	1.00	up	ILKAP
7947332a	5.29E-05	1.09	down	1.00	up	1.25	up	1.34	down	IMMP1L
8045171a	2.98E-07	1.42	up	1.36	up	1.18	up	1.16	down	IMP4
8151549a	4.17E-05	1.09	up	1.07	up	1.18	up	1.49	down	IMPA1
8020183a	5.50E-06	1.31	up	1.05	up	1.69	up	1.16	down	IMPA2
8142795a	2.07E-07	1.12	up	1.46	up	1.13	up	1.16	down	IMPDH1
8087254a	2.50E-05	1.21	down	1.20	down	1.43	down	1.16	up	IMPDH2
7970096a	5.46E-05	1.16	down	1.17	up	1.06	down	1.02	down	ING1
8077226a	6.65E-05	1.23	up	1.05	down	1.25	up	1.06	down	ING5
8139207a	8.62E-09	1.09	down	1.33	down	1.02	up	2.67	up	INHBA
8044927a	3.62E-05	1.05	down	1.51	up	1.08	down	1.74	up	INHBB
8042859a	3.91E-05	1.29	up	1.13	up	1.15	up	1.00	down	INO80B
7994715a	2.44E-06	1.20	up	1.28	up	1.12	up	1.05	up	INO80E
8102950a	5.45E-10	1.13	up	2.41	down	1.10	down	2.53	up	INPP4B
7931479a	2.75E-06	1.39	down	1.47	down	1.22	down	1.49	up	INPP5A
7915101a	1.91E-05	1.08	up	1.04	down	1.24	down	1.14	up	INPP5B
8011062a	3.46E-06	1.32	up	1.39	up	1.30	up	1.49	down	INPP5K
8137526a	1.96E-07	1.05	down	2.00	down	1.31	up	1.32	up	INSIG1
8044766a	4.97E-05	1.09	up	1.43	down	1.04	down	1.23	up	INSIG2
8033362a	3.25E-07	1.04	down	1.72	up	1.44	up	1.70	down	INSR
8017283a	2.22E-10	1.33	up	1.38	up	1.50	up	1.36	down	INTS2
7905631a	8.93E-05	1.08	down	1.44	down	1.11	down	1.13	up	INTS3
8133095a	4.47E-05	1.06	down	1.23	up	1.12	down	1.30	down	INTS4L2;INTS4L1
7971692a	3.01E-05	1.08	up	1.30	down	1.20	down	1.28	up	INTS6
8150014a	1.57E-06	1.31	up	1.13	up	1.21	up	1.17	down	INTS9
8105545a	3.74E-08	1.82	down	1.26	down	1.21	down	1.28	up	IPO11
7908732a	6.65E-05	1.11	down	1.25	down	1.23	down	1.10	up	IPO9

Transcript ID	Arsenic			Chromium		Nickel		Vanadium		Gene Symbol
	p-value	Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8162421a	1.26E-05	1.02	down	1.29	up	1.05	down	1.40	down	IPPK;CENPP
8059878a	5.59E-09	1.54	down	1.40	up	1.32	down	3.65	down	IQCA1;LOC100129258
8143899a	4.69E-05	1.18	down	1.42	up	1.23	down	1.29	down	IQCA1L
7984380a	8.43E-05	1.03	up	1.07	up	1.23	up	1.31	down	IQCH
7993713a	2.96E-06	1.47	up	1.04	down	1.71	up	1.05	up	IQCK
7986010a	3.48E-05	1.04	up	1.38	down	1.14	up	1.08	down	IQGAP1
7921033a	4.18E-05	1.55	down	1.69	down	1.40	down	1.18	up	IQGAP3
8120826a	7.67E-05	1.04	down	1.63	up	1.00	up	1.58	down	IRAK1BP1
7956878a	1.71E-08	3.88	up	1.42	down	1.10	up	7.52	down	IRAK3
8136045a	4.62E-08	1.24	up	1.15	up	1.44	up	1.13	down	IRF5
7997712a	1.59E-05	1.21	up	1.01	up	1.89	up	1.24	down	IRF8
7973618a	2.49E-07	1.33	up	1.41	down	1.20	up	1.24	up	IRF9
8110872a	2.96E-06	1.59	down	1.51	down	1.01	down	2.49	up	IRX2
8110865a	3.33E-07	1.00	up	1.04	up	2.14	up	1.10	up	IRX4
8112331a	2.96E-07	1.07	down	1.67	up	1.17	down	1.31	down	ISCA1;ISCA1L
7975705a	3.74E-05	1.27	up	1.14	down	1.11	up	1.15	up	ISCA2
8107814a	2.16E-05	1.47	up	1.11	up	1.33	up	1.32	down	ISOC1
8035465a	2.69E-05	1.03	up	1.50	up	2.49	down	2.92	down	ISYNA1
8001211a	6.69E-09	1.14	down	1.79	down	1.10	down	2.32	up	ITFG1
8001233a	5.78E-06	1.09	up	1.29	down	1.21	up	1.82	up	ITFG1
7989985a	1.87E-06	1.17	up	2.43	down	1.17	up	1.11	up	ITGA11
8046695a	1.94E-06	3.29	up	3.25	up	1.08	down	2.72	down	ITGA4;CERKL
7963786a	1.00E-09	1.16	up	1.85	down	1.22	down	2.14	up	ITGA5
7963880a	6.34E-05	1.03	down	1.32	up	2.36	down	1.62	up	ITGA7
8078619a	3.83E-06	1.05	down	1.26	up	1.02	up	1.50	down	ITGA9
8046861a	5.67E-06	1.34	down	1.63	down	1.04	down	1.08	down	ITGAV
7932966a	8.89E-09	1.32	down	1.38	down	1.37	down	1.30	up	ITGB1
8050176a	2.03E-05	1.06	up	1.19	down	1.02	up	1.33	up	ITGB1BP1
8070826a	3.48E-06	1.06	down	1.31	up	1.02	up	1.05	up	ITGB2
8007931a	8.19E-06	1.07	down	2.00	down	1.11	down	2.29	up	ITGB3
7969861a	5.46E-11	1.16	up	2.90	down	1.19	up	2.74	up	ITGBL1
8173106a	9.18E-07	1.18	down	1.23	up	1.12	down	1.08	up	ITIH5L
7969003a	4.18E-05	1.02	up	1.22	down	1.14	down	1.16	up	ITM2B
8060611a	3.78E-07	1.70	down	1.09	up	2.02	down	1.00	up	ITPA
7980970a	2.44E-05	1.11	up	1.66	down	1.06	down	1.18	up	ITPK1
8118734a	9.99E-05	1.20	up	1.43	up	1.81	up	1.00	down	ITPR3
7936242a	2.14E-08	1.08	down	1.61	down	1.12	down	1.69	up	ITPRIP
7993622a	6.11E-06	1.30	up	1.13	down	1.39	up	1.03	down	ITPRIPL2
8050719a	4.67E-06	1.32	up	1.00	up	1.18	up	1.22	down	ITSN2
7922889a	2.21E-07	1.20	down	1.46	down	1.79	down	1.19	up	IVNS1ABP
8055021a	9.23E-08	1.33	up	1.06	up	1.20	up	1.19	down	IWS1
8064978a	4.28E-06	1.10	down	2.17	down	1.25	up	2.37	up	JAG1
8116998a	6.30E-07	1.18	up	1.17	down	1.17	up	1.60	up	JARID2
8138789a	2.07E-05	1.08	up	1.71	down	1.22	up	1.90	up	JAZF1
7974725a	1.48E-06	1.10	up	1.40	down	1.02	up	1.26	up	JKAMP
8151423a	6.90E-08	1.00	up	2.30	up	1.03	down	1.06	up	JPH1
7943314a	5.68E-07	1.40	down	1.45	up	1.75	down	1.11	down	JRKL
7916609a	8.31E-05	1.14	down	1.03	down	1.46	down	1.31	up	JUN
8026047a	2.10E-07	1.02	up	2.06	down	1.32	up	1.40	down	JUNB
8015412a	1.88E-05	1.25	down	1.76	up	1.52	down	1.21	down	JUP
8171248a	2.44E-06	1.02	up	1.09	down	1.05	up	1.81	up	KAL1
8015526a	8.87E-09	1.05	down	1.65	up	1.04	up	2.09	down	KAT2A
8078227a	3.43E-07	1.04	down	2.05	down	1.11	down	1.47	up	KAT2B

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
7970844a	1.15E-05	1.23	down	1.78	down	1.22	down	1.42	up	KATNAL1
8043105a	3.99E-06	1.20	up	1.15	down	1.31	up	1.06	up	KCMF1
7903867a	1.93E-06	1.03	up	1.27	up	1.43	up	1.19	down	KCNC4
8172493a	1.26E-05	2.07	up	1.05	up	1.13	down	1.18	down	KCND1
8067029a	6.87E-06	1.49	up	1.20	up	1.94	up	1.17	up	KCNG1
8067033a	1.11E-05	1.48	up	1.00	down	1.94	up	1.60	up	KCNG1
8051785a	4.91E-08	1.62	up	1.15	up	2.23	up	1.30	down	KCNG3
7921533a	5.67E-05	1.20	up	1.19	up	1.33	up	1.07	down	KCNJ10
7934570a	2.96E-06	1.71	down	1.71	down	1.50	down	3.69	up	KCNMA1
7957126a	7.20E-07	1.56	up	1.52	up	1.03	up	2.02	down	KCNMB4
8120654a	7.16E-11	2.67	up	4.99	up	1.05	up	8.85	down	KCNQ5
7923043a	2.23E-05	2.32	up	1.36	up	1.04	up	1.01	up	KCNT2
8000738a	2.34E-08	1.76	up	1.03	down	1.58	up	1.07	up	KCTD13
7950641a	1.23E-05	1.48	up	2.31	down	1.33	up	1.54	up	KCTD14
8058118a	2.50E-06	1.29	up	1.09	down	1.19	up	1.23	up	KCTD18
8009737a	1.73E-07	1.32	up	1.03	up	1.28	up	1.09	up	KCTD2
7971369a	4.63E-10	1.15	down	1.11	down	1.85	down	2.97	up	KCTD4
8133167a	3.29E-05	1.09	up	1.37	down	1.25	up	1.13	up	KCTD7;RABGEF1
8149857a	2.15E-05	1.05	down	1.30	down	1.05	down	1.12	up	KCTD9
7972682a	2.89E-05	1.65	down	1.46	down	1.58	down	1.15	up	KDELC1
7951535a	2.70E-06	1.23	down	1.23	up	1.32	down	1.09	up	KDELC2
7898833a	6.30E-06	1.00	down	1.19	up	1.11	down	1.05	up	KDM1
8043283a	1.33E-05	1.26	up	1.44	up	1.40	up	1.11	down	KDM3A
7900833a	3.49E-05	1.06	down	1.34	up	1.02	down	1.08	up	KDM4A
8154333a	1.20E-06	1.13	down	1.24	down	1.47	down	1.46	up	KDM4C
7943282a	1.06E-07	1.16	up	1.83	up	1.15	up	1.24	down	KDM4D
7923453a	2.02E-06	1.08	down	1.31	down	1.37	down	1.24	up	KDM5B
8172827a	1.48E-06	1.32	up	1.22	down	1.21	up	1.09	down	KDM5C
8177232a	7.89E-08	1.35	down	4.58	down	1.95	up	5.11	up	KDM5D
8166956a	5.79E-05	1.22	up	1.30	down	1.22	up	1.18	down	KDM6A
8023656a	7.60E-06	1.01	down	1.34	up	1.06	up	1.36	down	KDSR
8161478a	3.99E-06	1.26	up	1.07	up	1.22	up	1.33	down	KGFLP2;KGFLP1;FLJ20444
8033162a	7.31E-06	1.15	up	1.19	up	1.17	up	1.18	down	KHSRP
8013696a	1.98E-06	1.23	up	1.02	down	1.26	up	1.45	down	KIAA0100
7997168a	4.83E-06	1.08	up	1.25	down	1.13	up	1.36	up	KIAA0174
8093961a	6.21E-05	1.16	down	1.39	down	1.16	down	1.13	up	KIAA0232
7980189a	2.91E-05	1.25	up	1.31	down	1.16	up	1.25	up	KIAA0317
8163275a	4.35E-05	1.21	down	1.17	up	1.13	down	1.53	down	KIAA0368
8021154a	9.51E-05	1.14	down	1.44	down	1.02	down	1.16	up	KIAA0427
7911854a	4.62E-08	1.10	up	2.09	up	1.08	up	1.54	down	KIAA0495
7997662a	5.03E-05	1.35	up	1.03	down	1.44	up	1.36	up	KIAA0513
7971246a	9.80E-07	1.10	down	1.57	down	1.44	down	1.29	up	KIAA0564
7939676a	5.24E-08	1.34	up	1.42	up	1.34	up	1.41	down	KIAA0652
8011293a	1.77E-07	1.24	up	1.60	up	1.04	down	1.28	down	KIAA0664
8011945a	6.23E-06	1.08	up	1.35	up	1.17	up	1.40	down	KIAA0753
8027184a	8.15E-05	1.20	up	1.24	up	1.38	up	1.11	down	KIAA0892
8104350a	2.69E-05	1.15	up	1.58	up	1.31	up	1.29	down	KIAA0947
7902977a	3.70E-08	1.12	up	1.15	up	1.06	up	2.65	down	KIAA1107
7926679a	1.44E-08	1.36	down	1.62	down	2.30	down	3.00	up	KIAA1217
8122279a	9.88E-08	1.10	up	2.73	up	1.49	up	3.05	down	KIAA1244;LOC202451
8016266a	1.23E-06	1.01	down	1.39	up	1.02	up	1.32	down	KIAA1267;LOC100294337
8053949a	2.65E-05	1.37	up	1.18	up	1.17	up	1.06	up	KIAA1310
8140709a	2.15E-06	1.38	up	2.59	up	1.01	up	1.20	up	KIAA1324L

Transcript ID	Arsenic			Chromium		Nickel		Vanadium		Gene Symbol
	p-value	Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
7910589a	2.88E-06	1.39	up	1.38	down	1.24	down	1.48	up	KIAA1383
7899821a	7.89E-06	1.01	up	1.45	down	1.08	up	1.04	down	KIAA1522
8160981a	1.47E-07	1.21	up	1.58	down	1.06	up	1.57	up	KIAA1539
8143247a	9.40E-07	1.27	up	1.58	up	1.19	up	1.40	down	KIAA1549
8003158a	2.66E-05	1.25	up	1.72	up	1.31	up	1.10	down	KIAA1609
8010426a	4.03E-06	1.33	up	1.17	down	1.63	up	1.20	down	KIAA1618
8076668a	5.79E-06	1.08	up	1.24	down	2.26	up	1.15	up	KIAA1644
7968898a	8.16E-05	1.00	up	1.34	down	1.26	down	1.20	up	KIAA1704
7943126a	1.42E-06	1.13	down	1.46	up	1.16	down	1.37	down	KIAA1731
7910600a	1.56E-05	1.45	up	1.71	up	1.32	up	1.60	down	KIAA1804
7951422a	1.79E-05	1.08	down	1.42	up	1.32	down	1.47	down	KIAA1826
8121525a	9.56E-05	1.08	down	1.22	up	1.02	up	1.17	down	KIAA1919
7990941a	7.83E-05	1.58	down	1.08	down	1.78	down	1.06	up	KIAA1920;LOC100291610
8124798a	6.82E-05	1.35	up	1.06	down	1.37	up	1.09	up	KIAA1949
8157246a	3.47E-05	1.12	up	1.29	up	1.14	down	1.66	down	KIAA1958
8050128a	4.06E-09	1.28	up	1.56	down	1.34	up	1.28	up	KIDINS220
8124088a	2.53E-07	1.25	up	1.06	down	1.30	up	1.55	up	KIF13A
7947248a	3.76E-05	1.03	down	1.36	up	1.02	up	1.17	down	KIF18A
8016139a	2.11E-08	1.03	down	1.59	up	1.21	up	1.65	down	KIF18B
8016147a	1.54E-08	1.01	down	1.66	up	1.15	up	1.76	down	KIF18B
7929078a	4.67E-08	1.66	down	1.12	up	1.60	down	1.54	down	KIF20B
8162019a	9.50E-07	1.06	down	1.50	up	1.12	up	1.98	down	KIF27;LOC389765
8105523a	4.39E-09	1.52	down	1.25	down	1.22	down	1.43	up	KIF2A
7901010a	8.97E-05	1.06	down	1.39	up	1.14	down	1.06	down	KIF2C
8114030a	2.24E-07	1.25	down	1.35	up	1.03	up	1.73	down	KIF3A
8061715a	2.07E-06	1.06	up	1.09	down	1.29	up	1.01	down	KIF3B
8050894a	1.44E-05	1.16	up	1.31	down	1.27	up	1.19	up	KIF3C
8045637a	3.54E-09	3.48	up	3.91	up	3.68	up	4.78	down	KIF5C
7922268a	3.48E-05	1.25	down	1.65	down	1.60	down	1.05	up	KIFAP3
8179564a	1.62E-05	1.14	up	1.15	up	1.38	up	1.06	down	KIFC1
8001587a	4.10E-06	1.06	up	1.28	down	1.31	up	1.51	up	KIFC3
7906307a	4.67E-07	1.01	down	1.40	down	1.04	down	1.32	up	KIRREL
8095110a	1.76E-07	1.08	down	3.71	up	3.67	down	3.38	up	KIT
7965322a	1.29E-06	1.01	down	1.94	down	1.73	down	1.96	up	KITLG
8040211a	1.38E-07	1.13	down	1.83	down	1.56	up	1.75	up	KLF11
8026564a	6.63E-07	1.24	down	1.05	down	1.25	down	1.44	up	KLF2
7931810a	1.88E-08	1.32	down	1.98	down	1.29	down	1.38	up	KLF6
8058477a	8.46E-06	1.16	up	1.49	down	1.41	up	1.21	up	KLF7
7954604a	1.47E-05	1.18	down	1.45	down	1.00	up	1.38	up	KLHDC5
8015456a	2.06E-08	1.18	down	1.71	up	1.23	down	1.91	down	KLHL11
8171837a	4.39E-07	1.04	up	1.51	up	1.09	down	1.21	down	KLHL15
7912102a	6.62E-07	1.05	down	1.35	up	1.16	down	1.11	up	KLHL21
8046186a	4.34E-09	1.18	up	1.68	up	1.29	up	2.05	down	KLHL23;PHOSPHO2
8027049a	1.41E-05	1.10	up	1.30	up	1.25	up	1.03	down	KLHL26
7950492a	3.72E-06	1.17	down	1.07	up	1.37	down	1.24	up	KLHL35
7997626a	1.22E-08	1.31	up	1.39	up	1.72	up	1.15	down	KLHL36
8168622a	1.04E-08	1.03	down	5.82	down	1.47	down	1.66	up	KLHL4
8094625a	3.65E-08	1.03	up	2.38	down	1.07	up	1.36	up	KLHL5
7959408a	9.32E-05	1.33	down	1.42	down	1.01	up	1.05	down	KNTC1
8072170a	1.12E-07	1.47	up	1.06	up	2.22	up	1.11	down	KREMEN1
8015104a	3.65E-07	1.09	down	1.18	up	1.10	down	1.34	down	KRT10
8005449a	1.74E-08	4.76	down	1.00	up	4.91	down	1.85	up	KRT17
8013042a	7.52E-08	3.08	down	1.10	down	3.70	down	1.97	up	KRT17

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8015387a	9.98E-08	5.56	down	1.28	down	7.06	down	2.71	up	KRT17
7955637a	7.46E-06	1.04	up	1.35	up	1.26	up	1.12	down	KRT18
7969574a	3.95E-06	1.19	up	1.46	up	1.49	up	1.18	down	KRT18
8154725a	1.99E-06	1.15	up	1.44	up	1.48	up	1.15	down	KRT18
7963479a	1.89E-05	1.09	up	1.04	up	1.11	up	1.20	down	KRT2
8015257a	3.65E-07	1.34	down	1.49	up	1.18	down	1.04	up	KRT33A
8015262a	4.66E-06	1.19	down	1.97	up	1.07	down	1.02	up	KRT33B
8015268a	1.70E-05	1.13	down	4.38	up	1.09	down	1.62	up	KRT34
7963406a	6.51E-06	1.19	down	1.46	up	1.10	down	1.06	down	KRT6B
7963567a	1.99E-06	1.15	up	1.37	up	1.32	up	1.14	down	KRT8
8019588a	8.56E-08	1.10	down	1.42	up	1.05	down	1.25	up	KRTAP1-1/3/5
8015208a	3.87E-05	1.10	down	1.76	up	1.03	down	1.10	up	KRTAP2-1/2/4
8019576a	6.20E-05	1.29	down	2.34	up	1.32	down	1.35	down	KRTAP2-1/2/4
8019699a	1.63E-06	1.02	up	1.55	up	1.01	up	1.08	down	KRTAP4-8/11/7
8019565a	5.01E-07	1.07	down	1.89	up	1.05	down	1.18	down	KRTAP4-2/5/11/12
8015242a	9.90E-05	1.03	up	1.39	up	1.02	up	1.10	down	KRTAP4-2;KRTAP4-1
8007115a	8.87E-06	1.10	down	1.63	up	1.01	up	1.13	down	KRTAP4-7-9;KRTAP4-11
8007134a	2.19E-05	1.11	down	1.12	up	1.09	down	1.06	up	KRTAP9-2-4;KRTAP9-8/9
8175871a	2.08E-07	1.22	down	3.94	up	1.01	up	2.02	up	L1CAM
7984103a	3.07E-06	1.07	up	1.60	down	1.07	down	1.21	up	LACTB
8176093a	2.20E-08	1.29	up	1.78	down	1.11	up	1.46	up	LAGE3
8022176a	4.61E-06	1.75	up	1.35	up	1.39	up	2.04	down	LAMA1
8128991a	3.11E-05	2.32	up	1.75	down	2.61	up	1.53	down	LAMA4
8142194a	2.19E-07	1.05	down	2.05	down	1.06	up	2.14	up	LAMB1
8087337a	4.04E-05	1.39	down	1.01	up	1.36	down	1.31	up	LAMB2
7924029a	2.20E-06	1.22	down	1.63	up	1.97	down	2.63	up	LAMB3
7908041a	6.61E-09	1.24	down	1.63	down	1.57	down	1.65	up	LAMC1
7908072a	2.47E-11	1.42	down	4.55	down	2.43	down	3.75	up	LAMC2
8092348a	1.25E-05	1.56	up	1.32	up	2.25	up	1.92	down	LAMP3
8075637a	5.05E-06	2.05	down	1.48	up	1.26	down	1.23	down	LARGE
7955361a	1.81E-06	1.16	up	1.12	up	1.32	up	1.15	down	LARP4
7990080a	9.77E-05	1.05	up	1.44	down	1.06	down	1.19	up	LARP6
8114861a	1.02E-05	1.44	down	1.13	up	1.27	down	1.14	down	LARS
8173269a	3.37E-05	1.03	up	1.27	down	1.01	up	1.38	down	LAS1L
8025382a	1.88E-08	1.28	up	1.66	up	1.47	up	1.35	down	LASS4
7924603a	2.77E-06	1.23	down	1.20	down	1.64	down	1.44	up	LBR
8053183a	8.76E-06	1.39	up	1.03	up	1.29	up	1.08	up	LBX2
8070398a	4.64E-05	1.02	up	1.08	up	1.05	down	1.31	down	LCA5L;WRB
8041212a	1.33E-05	1.12	up	1.46	up	1.08	up	1.19	down	LCLAT1
7929596a	2.86E-08	1.23	down	1.11	up	1.42	down	1.09	down	LCOR
8099524a	8.81E-07	1.17	up	1.14	down	1.15	up	1.51	up	LDB2
8175539a	1.42E-06	1.01	down	1.79	down	1.04	down	1.95	up	LDOC1
8145942a	2.72E-05	1.18	up	1.52	down	1.13	down	1.64	up	LETM2
8072876a	7.57E-08	1.03	down	1.28	down	1.01	down	1.32	up	LGALS1
7974461a	1.35E-07	1.06	up	1.48	down	1.00	down	1.50	up	LGALS3
8018975a	2.34E-06	1.22	up	1.23	down	1.21	up	1.27	up	LGALS3BP
7947199a	6.80E-06	1.19	up	1.07	up	1.09	up	3.76	up	LGR4
7971150a	7.66E-08	1.01	down	1.67	down	1.43	down	1.60	up	LHFP
8112803a	1.70E-08	1.01	up	1.28	down	1.01	up	1.98	up	LHFPL2
8157751a	4.63E-07	1.27	up	1.02	up	2.18	up	1.18	down	LHX2
7907849a	8.83E-05	1.21	down	1.23	up	1.10	down	1.14	down	LHX4
7908529a	4.63E-07	1.31	up	1.25	up	1.46	up	2.04	down	LHX9
8094688a	3.26E-05	1.05	up	1.31	down	1.22	down	1.52	up	LIAS

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8111677a	2.48E-07	1.76	up	1.15	up	1.64	up	1.27	down	LIFR
8006479a	7.64E-09	1.23	up	1.49	up	1.32	up	1.99	down	LIG3
7972737a	2.09E-05	1.19	down	1.41	up	1.33	down	1.39	down	LIG4
7934920a	3.49E-05	1.25	down	1.17	up	1.22	down	1.20	up	LIPA
8037186a	4.95E-05	1.31	down	1.36	up	1.33	down	1.23	down	LIPE
8092541a	4.22E-07	6.30	up	1.00	up	3.61	up	1.04	down	LIPH
8043840a	3.90E-06	1.37	up	1.15	up	1.29	up	1.14	down	LIPT1;MITD1
8009844a	3.14E-05	1.16	up	1.35	up	1.51	up	1.30	down	LLGL2
8023561a	3.53E-06	1.04	down	1.34	up	1.11	down	1.37	down	LMAN1
8144089a	1.45E-06	1.45	down	1.02	down	1.59	down	1.03	up	LMBR1
8077490a	4.81E-07	1.09	down	2.19	down	1.21	down	1.63	up	LMCD1
7998381a	1.04E-05	1.30	down	1.16	up	1.13	down	2.05	down	LMF1
7969438a	1.97E-05	1.00	up	1.27	down	1.22	up	1.39	up	LMO7
8157922a	1.75E-06	1.06	up	1.01	down	1.53	up	1.04	down	LMX1B
8107066a	7.80E-06	1.37	down	1.86	down	1.13	up	1.22	up	LNPEP
7970716a	6.21E-07	1.04	down	1.50	down	1.02	up	1.35	up	LNX2
8036302a	6.53E-08	1.54	down	1.81	up	1.26	down	1.78	down	LOC100127980
8131098a	1.07E-05	1.02	down	1.28	up	1.05	up	1.06	up	LOC100128374
8135585a	1.02E-07	1.64	down	1.88	down	2.18	down	2.73	up	LOC100128868
8156194a	1.52E-05	1.06	down	1.24	up	1.12	down	1.13	down	LOC100130433
8015798a	4.15E-06	1.33	up	1.04	down	1.40	up	1.51	down	LOC100130581
8155503a	1.32E-07	1.20	down	2.13	down	2.09	down	2.04	up	LOC100132167
8161368a	3.10E-06	1.07	down	1.92	down	1.56	down	1.39	up	LOC100132167
7927550a	9.22E-07	1.45	down	1.04	up	1.47	down	1.40	down	LOC100133130
8010012a	5.58E-05	1.07	down	1.31	down	1.02	down	1.28	up	LOC100134934;CDK3
7981488a	9.06E-05	1.16	down	1.24	up	1.08	down	1.07	up	LOC100288144
8154727a	1.06E-08	1.36	up	1.66	up	1.87	up	1.59	down	LOC138412
8054517a	3.72E-05	1.08	down	1.26	up	1.35	down	1.84	down	LOC151009;LOC440894
8116128a	8.25E-08	1.17	down	1.47	up	1.11	up	1.50	down	LOC202181
8110685a	1.63E-05	1.22	up	1.42	up	1.39	up	1.15	up	LOC25845;EXOC3
7957606a	3.16E-06	1.26	down	1.17	down	1.38	down	1.24	up	LOC283398
8012282a	6.07E-06	1.03	down	1.76	up	1.07	down	1.30	down	LOC284023
8004955a	6.39E-05	1.14	down	1.19	up	1.25	down	1.16	up	LOC284033
8021374a	6.78E-05	1.21	up	1.04	down	1.18	up	1.20	down	LOC284288
8043583a	7.67E-05	1.20	up	1.14	down	1.26	up	1.34	up	LOC285033
8094226a	1.97E-05	1.07	down	1.66	down	1.20	down	1.08	up	LOC285550
7959921a	2.99E-05	1.05	down	1.29	up	1.01	up	1.08	down	LOC338797
8019754a	8.45E-05	1.05	up	1.35	down	1.04	down	1.19	up	LOC348262
8099084a	1.37E-05	1.02	down	1.14	up	1.10	down	1.06	up	LOC348926
8056968a	2.12E-09	1.02	up	1.02	up	1.77	up	3.14	up	LOC375295
7950420a	5.17E-05	1.17	up	1.20	up	1.02	up	1.29	down	LOC387787
8094456a	8.39E-06	1.01	up	1.41	down	1.10	down	1.11	up	LOC389203
8163714a	5.56E-06	1.28	down	1.30	down	1.50	down	1.25	up	LOC389787
8174026a	7.69E-06	1.12	up	1.22	down	1.09	up	1.27	up	LOC392510
7999447a	7.97E-06	1.04	down	1.34	up	1.06	up	1.08	down	LOC400499
8094701a	7.14E-05	1.06	down	1.28	up	1.07	up	1.24	down	LOC401127
7941059a	9.11E-05	1.21	up	1.02	up	1.22	up	1.09	down	LOC439914
7993108a	2.69E-05	1.12	down	1.39	up	1.00	up	1.06	down	LOC440337
8155634a	6.12E-06	1.04	down	1.20	up	1.01	down	1.30	down	LOC441666
7982529a	4.91E-06	1.09	down	1.49	up	1.13	down	1.20	down	LOC441722
8160431a	6.51E-10	1.23	up	3.38	down	1.99	down	4.25	up	LOC554202
8168412a	2.58E-05	1.11	up	1.62	down	1.10	up	1.61	down	LOC554203
8161451a	7.15E-09	1.36	up	1.16	up	1.48	up	1.39	down	LOC554249;MGC21881

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8112306a	1.48E-06	1.10	down	1.06	down	1.53	down	1.65	up	LOC57399
7896759a	1.26E-05	1.55	up	1.12	up	1.27	up	1.20	down	LOC643837
7983132a	3.24E-05	1.01	up	1.55	down	1.01	up	1.08	down	LOC645106
7988283a	1.62E-08	1.34	up	1.33	down	1.26	up	1.32	down	LOC645212
7986603a	6.53E-08	1.00	down	1.27	up	1.08	up	1.30	down	LOC646214
8111922a	5.72E-06	1.44	up	1.19	up	1.67	up	1.14	down	LOC648987
7960889a	4.37E-07	1.05	up	1.57	up	1.14	down	1.30	up	LOC653113
8074925a	1.37E-05	1.23	down	1.51	down	1.12	down	1.24	up	LOC91316;GUSB;GUSBL1
8077499a	2.51E-07	1.13	down	2.03	down	1.14	down	1.53	up	LOH3CR2A
7995421a	2.88E-06	1.16	up	1.25	down	1.24	up	1.48	up	LONP2
8169603a	5.52E-05	1.33	up	1.10	up	1.15	up	1.06	down	LONRF3
8113709a	1.51E-07	1.15	up	1.16	up	4.25	down	2.15	up	LOX
7984771a	2.49E-07	1.23	down	2.00	down	1.50	down	1.99	up	LOXL1
8149774a	1.24E-08	1.23	down	1.32	down	1.08	up	2.21	up	LOXL2
7971565a	2.22E-09	1.07	up	2.31	down	1.10	down	1.34	up	LPAR6
8110841a	5.78E-08	1.94	up	1.41	up	1.97	up	1.73	down	LPCAT1
7995697a	4.52E-08	1.04	up	2.57	down	1.14	up	2.19	up	LPCAT2
7902565a	1.98E-05	1.87	up	3.89	down	2.59	down	11.85	up	LPHN2
8040340a	1.06E-08	1.47	up	1.63	down	1.44	up	1.42	up	LPIN1
7948332a	1.74E-06	2.39	up	2.04	down	1.04	down	1.57	up	LPXN
7964602a	3.36E-06	1.18	up	1.63	down	1.58	up	1.44	up	LRIG3
7956301a	5.10E-07	1.16	down	1.71	down	1.38	down	2.04	up	LRP1
7973352a	8.32E-06	1.17	up	1.35	down	1.05	up	1.33	up	LRP10
8152280a	8.42E-05	1.03	down	1.54	down	1.61	down	1.29	up	LRP12
8051882a	9.22E-05	1.09	down	1.17	up	1.07	down	1.13	down	LRPPRC
8148923a	2.15E-06	1.16	down	1.49	down	1.07	down	1.25	up	LRRC14
8117243a	4.25E-06	1.92	up	1.21	down	3.05	up	1.12	up	LRRC16A
7986394a	3.31E-05	1.00	up	1.70	down	1.00	up	1.16	up	LRRC28
8092009a	4.64E-10	1.06	down	1.11	up	1.06	down	2.07	down	LRRC34
8007867a	5.82E-05	1.15	down	1.42	up	1.20	down	1.66	down	LRRC37A2-4
8017688a	6.43E-07	1.12	down	1.34	up	1.03	up	1.45	down	LRRC37A2-4
8016245a	4.25E-06	1.18	down	1.27	up	1.14	up	1.57	down	LRRC37A2-4
8142765a	3.07E-07	1.06	down	1.40	up	1.24	down	1.07	down	LRRC4
7911862a	4.12E-06	1.18	up	1.36	up	1.06	up	1.04	down	LRRC47
7987916a	1.88E-05	1.02	down	1.38	down	1.03	down	1.10	up	LRRC57
8137215a	1.51E-06	1.37	up	1.25	up	1.41	down	1.61	down	LRRC61
8049512a	8.00E-05	1.36	up	1.08	down	1.37	up	1.06	up	LRRFIP1
8049530a	8.30E-05	1.20	up	1.25	down	1.16	up	1.27	down	LRRFIP1
8086150a	5.28E-07	1.34	down	1.25	down	1.47	down	1.04	up	LRRFIP2
7986463a	2.35E-06	1.38	up	1.17	up	2.36	up	1.57	down	LRRK1
8092905a	3.86E-05	1.17	up	1.26	up	1.21	up	1.29	down	LSG1
8150206a	3.03E-08	1.02	down	1.56	up	1.06	down	1.42	down	LSM12
8027592a	1.26E-05	1.10	down	1.12	up	1.20	down	1.30	down	LSM14A
8179839a	3.03E-06	1.28	up	1.09	up	1.42	up	1.01	up	LSM2
8097679a	6.84E-07	1.17	down	1.33	down	1.23	down	1.22	up	LSM6
8012274a	2.42E-05	1.17	up	1.12	up	1.17	up	1.32	down	LSMD1
7968126a	1.78E-07	1.23	down	1.80	up	1.53	down	1.01	down	LSP1
7905028a	1.16E-06	1.10	down	1.80	up	1.52	down	1.19	down	LSP1;LOC645166;LOC654342
7965627a	4.43E-07	1.20	down	1.19	up	1.22	down	1.06	up	LTA4H
8041383a	7.24E-06	1.07	down	1.27	up	1.05	up	2.04	up	LTBP1
7980152a	2.32E-08	1.36	down	2.44	down	1.72	down	1.67	up	LTBP2
8091715a	7.09E-05	1.30	up	1.40	down	1.33	up	1.29	up	LXN
8178059a	1.14E-07	1.75	up	1.54	up	1.78	up	1.28	down	LY6G5B;CSNK2B

Transcript ID	Arsenic			Chromium		Nickel		Vanadium		Gene Symbol
	p-value	Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8148553a	2.74E-06	1.18	down	1.04	down	1.17	down	2.24	up	LY6K
8056113a	4.99E-07	1.38	up	1.88	down	1.08	up	1.04	up	LY75;CD302
8146500a	2.56E-06	1.37	up	1.76	up	1.52	up	1.50	down	LYN
8045674a	2.93E-08	3.46	up	3.40	up	5.12	up	2.20	down	LYPD6
8045664a	7.52E-08	3.43	up	8.17	up	7.09	up	2.15	down	LYPD6B
8125748a	2.48E-07	1.03	down	1.04	up	1.16	down	1.42	up	LYPLA2P1
8128133a	4.69E-06	1.09	up	1.03	up	1.23	up	1.18	down	LYRM2;ZC3H11A
8123728a	2.70E-07	1.29	up	1.34	up	1.43	up	1.20	down	LYRM4
8113064a	8.27E-06	1.08	up	1.45	down	1.23	up	1.53	up	LYSMD3
7912292a	8.64E-06	1.03	down	1.26	up	1.22	down	1.12	up	LZIC
8061035a	9.46E-06	1.28	down	1.01	down	1.31	down	1.20	up	MACROD2
8119874a	2.18E-05	1.26	up	1.02	up	1.24	up	1.00	down	MAD2L1BP
7912481a	3.64E-06	1.06	up	1.38	up	1.24	up	1.12	down	MAD2L2
8019796a	2.84E-05	1.01	down	1.18	down	1.25	up	1.09	down	MAFG
8131091a	3.41E-06	1.12	up	1.27	down	1.19	up	1.13	up	MAFK;TMEM184A
8167656a	4.18E-06	1.39	up	1.19	down	1.07	up	1.27	up	MAGED1
8167815a	4.46E-08	1.47	up	1.28	down	1.22	up	1.04	down	MAGED2
8168458a	1.35E-05	1.01	down	1.79	up	1.17	up	1.17	down	MAGEE1
8088602a	1.23E-05	1.12	down	1.10	down	1.60	down	1.14	up	MAGI1
8140504a	4.71E-05	1.11	up	1.15	down	1.13	up	1.35	up	MAGI2
7904106a	5.99E-05	1.23	down	1.32	down	1.69	down	1.42	up	MAGI3
8156167a	5.08E-05	1.09	down	1.33	up	1.07	down	1.50	down	MAK10
8148040a	1.58E-07	1.34	up	4.86	up	1.98	up	14.73	down	MAL2
7941272a	4.35E-05	1.13	down	1.17	up	1.10	down	1.15	down	MALAT1
8170420a	9.29E-10	1.63	down	1.91	down	2.05	down	3.45	up	MAMLD1
8129254a	4.93E-07	3.87	up	3.08	up	1.08	down	1.09	up	MAN1A1
7904340a	7.39E-05	1.20	down	1.03	up	1.41	down	1.00	down	MAN1A2
8107234a	2.14E-05	1.31	down	1.10	up	1.60	down	1.00	down	MAN2A1
7961365a	8.51E-05	1.19	down	2.34	down	1.11	down	1.87	down	MANSC1
8106098a	1.68E-08	1.10	down	1.68	down	1.02	down	1.59	up	MAP1B
8046360a	9.98E-05	1.30	up	1.29	up	1.29	up	1.38	down	MAP1D
7997740a	6.87E-06	1.21	up	1.59	up	1.44	up	1.22	down	MAP1LC3B
7959023a	1.85E-05	1.36	up	1.63	up	1.47	up	1.15	down	MAP1LC3B2
8047926a	2.27E-07	1.77	up	1.81	down	1.07	up	1.09	up	MAP2
7984408a	9.19E-05	1.11	down	1.57	down	1.15	up	1.04	down	MAP2K5
8105436a	3.12E-10	2.11	down	1.10	up	1.65	down	1.34	up	MAP3K1
8084589a	4.31E-05	1.62	up	1.19	up	1.22	down	1.07	down	MAP3K13
8171653a	1.01E-06	1.15	down	2.16	up	1.20	down	2.55	down	MAP3K15;PDHA1
8054997a	6.19E-07	1.38	up	1.19	down	1.48	up	1.17	down	MAP3K2
8129804a	1.94E-05	2.59	up	1.85	up	3.90	up	1.51	down	MAP3K5
8043945a	2.84E-06	1.28	up	1.01	down	1.28	up	1.39	up	MAP4K4
8092404a	1.65E-05	1.12	up	1.29	up	1.05	up	1.26	down	MAP6D1
8129783a	3.29E-07	1.38	up	1.20	up	1.34	up	1.17	down	MAP7
8175369a	1.38E-08	1.02	down	2.03	down	1.15	up	1.04	up	MAP7D3
8119016a	9.80E-05	1.09	down	1.50	up	1.84	down	1.16	down	MAPK13
8000811a	1.78E-06	1.47	up	1.03	up	1.24	up	1.23	up	MAPK3
7983763a	1.70E-05	1.05	down	1.45	down	1.10	down	1.10	up	MAPK6
7909236a	9.87E-07	1.02	down	1.29	down	1.18	down	1.24	up	MAPKAPK2
8101925a	5.22E-05	1.08	up	1.60	down	1.05	down	1.21	up	MAPKSP1
8025421a	6.98E-06	1.28	up	1.15	up	1.56	up	1.13	down	MAR2
7929247a	1.02E-06	1.38	down	1.09	up	1.44	down	1.10	down	MAR5
8121563a	1.58E-05	1.00	up	1.22	down	1.21	up	1.33	up	MARCKS
7909841a	1.65E-08	1.22	up	2.43	up	1.05	down	9.26	down	MARK1

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
7956443a	3.58E-05	1.15	down	1.14	up	1.13	down	1.07	up	MARS
8177498a	3.65E-07	1.00	up	1.83	down	1.60	up	2.81	up	MARVELD2
8105741a	3.35E-07	1.16	down	1.10	up	1.26	down	1.40	up	MAST4
8050537a	1.67E-06	1.41	up	1.35	down	1.51	up	1.30	up	MATN3
8060705a	5.21E-05	1.48	down	1.04	down	1.49	down	1.11	down	MAVS
8134737a	2.53E-05	1.20	up	1.06	up	1.14	up	1.05	down	MBLAC1
8175177a	8.97E-05	1.15	up	1.07	down	1.13	up	1.07	up	MBNL3
8050160a	1.05E-05	1.16	up	1.42	down	1.11	up	1.28	up	MBOAT2
8039166a	1.40E-05	1.14	down	1.14	up	1.09	down	1.16	up	MBOAT7
8003089a	1.56E-06	1.27	up	1.25	up	1.45	up	1.29	down	MBTPS1
8166382a	3.32E-05	1.14	up	1.31	up	1.19	down	1.09	down	MBTPS2
8076563a	3.36E-06	1.11	up	1.50	up	1.07	up	1.15	down	MCAT
8113551a	1.45E-05	1.09	up	1.63	down	1.66	down	1.08	up	MCC
8092358a	4.12E-06	1.13	up	1.48	up	1.52	up	1.91	down	MCF2L2
7919751a	2.47E-08	1.12	down	1.50	down	1.21	down	1.33	up	MCL1
8070988a	9.27E-05	1.13	up	1.31	up	1.00	down	1.05	down	MCM3AP;MCM3APAS
8060813a	3.26E-05	1.71	down	1.04	up	1.75	down	1.08	down	MCM8
8129214a	9.75E-08	1.61	up	1.55	up	1.86	up	1.24	down	MCM9
8129218a	5.82E-08	1.42	up	1.46	up	1.60	up	1.22	down	MCM9
7917283a	7.43E-10	1.80	up	1.66	up	2.04	up	2.82	down	MCOLN2
7917304a	1.17E-08	1.86	up	1.78	up	2.69	up	3.41	down	MCOLN3
7950864a	9.77E-05	1.11	down	1.44	up	1.34	down	1.33	down	ME3
8175998a	3.33E-06	1.28	down	1.47	down	1.42	down	1.12	up	MECP2
8014841a	1.39E-06	1.06	down	1.42	up	1.02	down	1.58	down	MED1
8110886a	5.00E-05	1.38	up	1.36	up	1.70	up	1.13	down	MED10;DNAL4
8003922a	4.30E-07	1.49	up	1.05	down	1.19	up	1.53	down	MED11
8083360a	2.49E-05	1.52	up	1.10	up	1.43	up	2.79	down	MED12L
7966706a	2.35E-05	1.11	up	1.00	up	1.40	up	1.14	down	MED13L
8172119a	3.74E-09	1.14	down	1.57	down	1.32	down	1.43	up	MED14
7943176a	3.84E-10	1.30	down	1.44	up	1.39	down	1.14	down	MED17
8148022a	4.88E-06	1.26	up	1.02	down	1.28	up	1.12	down	MED30
7971550a	7.11E-05	1.16	down	1.22	down	1.52	down	1.26	up	MED4
7915516a	2.42E-07	1.16	up	1.21	up	1.06	up	1.32	down	MED8
8005260a	2.60E-08	1.10	up	1.50	up	1.06	up	1.13	down	MED9
7986411a	6.02E-06	1.04	down	1.46	down	1.11	down	1.03	down	MEF2A
7976795a	3.42E-05	1.17	down	1.14	down	1.21	down	1.59	up	MEG3
7911799a	3.11E-07	1.11	down	1.58	down	1.06	up	1.11	up	MEGF6
8042356a	2.97E-09	1.16	up	3.48	down	1.16	up	4.20	up	MEIS1
8005695a	5.64E-06	1.06	down	1.44	down	1.37	down	1.07	up	MEIS3P1;MEIS3P2
7949206a	1.19E-06	1.10	up	1.40	up	1.03	down	1.24	down	MEN1
8044391a	4.17E-07	1.61	up	2.13	up	1.23	up	1.64	down	MERTK
8135601a	1.70E-06	1.38	up	1.50	down	1.46	up	1.43	up	MET
8011275a	9.26E-09	1.27	up	1.51	up	1.13	up	1.48	down	METT10D
8158544a	4.19E-05	1.09	up	1.42	up	1.11	up	1.48	down	METT11A;ASB6
7993833a	2.85E-05	1.32	up	1.02	down	1.21	up	1.21	up	METT19
7988245a	3.00E-06	1.23	up	1.39	down	1.11	up	1.17	down	MFAP1
7955729a	9.05E-07	1.38	up	1.06	up	1.33	up	1.07	up	MFSD5
8054356a	8.53E-06	1.39	up	1.26	up	1.15	up	1.25	down	MFSD9
8136662a	2.64E-12	1.07	down	1.28	down	1.04	down	6.28	up	MGAM
8054135a	1.45E-09	1.38	up	1.71	up	1.03	up	6.27	down	MGAT4A
8045349a	4.64E-06	1.46	up	1.53	up	1.29	up	1.07	down	MGAT5
8175256a	2.62E-06	1.37	up	1.21	down	1.03	up	1.79	down	MGC16121
8074695a	1.64E-06	1.41	up	1.12	down	1.73	up	1.53	up	MGC16703

Transcript ID	Arsenic			Chromium		Nickel		Vanadium		Gene Symbol
	p-value	Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8123606a	1.13E-07	2.32	up	1.09	up	1.75	up	2.13	down	MGC39372
8007799a	1.07E-08	1.25	down	2.11	up	1.07	down	2.05	down	MGC57346
8019563a	2.31E-05	1.08	down	1.48	down	1.22	down	1.05	up	MGC70870
7992998a	2.28E-05	1.04	up	1.20	down	1.21	down	1.20	up	MGRN1
8097513a	7.47E-06	1.19	up	2.03	down	1.12	up	1.24	down	MGST2
7906978a	5.49E-06	1.04	up	1.43	down	1.02	down	1.36	up	MGST3
8074274a	1.23E-05	1.14	down	1.10	down	1.11	down	1.22	up	MICAL3
8171297a	2.01E-09	1.60	down	2.54	down	1.61	down	2.64	up	MID1
8166797a	7.28E-05	1.44	down	1.35	down	1.40	down	1.65	up	MID1P1
8112182a	4.90E-09	1.81	down	1.41	down	1.19	down	1.18	up	MIER3
8018343a	8.92E-07	1.45	up	1.30	up	1.57	up	1.35	down	MIF4GD
7928937a	9.93E-06	1.31	down	1.03	up	1.42	down	1.12	down	MINPP1
7973985a	5.05E-05	1.02	down	1.10	up	1.23	up	1.85	down	MIPOL1
7969576a	3.24E-05	1.46	up	1.18	up	1.06	up	1.79	down	MIR17HG
8008885a	2.57E-05	1.10	up	1.35	down	1.96	up	1.14	down	MIR21
8064967a	5.62E-06	1.63	down	1.07	down	1.94	down	1.24	down	MKKS
8143387a	2.98E-05	1.15	up	1.25	up	1.10	up	1.15	down	MKRN1
7932733a	6.28E-06	1.38	up	2.81	up	2.60	up	2.87	down	MKX
8078544a	6.43E-07	1.37	down	1.56	down	1.32	down	1.22	up	MLH1
7944223a	2.15E-05	1.14	down	1.27	up	1.01	up	1.26	down	MLL
7944262a	1.12E-07	1.15	down	1.44	up	1.01	down	1.22	down	MLL
7905329a	1.39E-06	1.14	up	2.91	down	2.01	down	2.01	up	MLLT11
8160332a	1.21E-06	1.37	down	1.29	down	5.02	down	1.74	down	MLLT3
8006788a	4.59E-05	1.01	up	1.06	up	1.10	up	1.36	down	MLLT6
8049487a	1.36E-05	1.12	up	1.49	down	1.00	down	1.67	up	MLPH
8007290a	2.58E-06	1.10	up	1.22	up	1.08	up	1.59	down	MLX;PSMC3IP
7997525a	6.07E-05	1.38	up	1.03	up	1.46	up	1.12	down	MLYCD
7966213a	1.64E-05	1.06	up	1.09	up	1.38	up	1.43	down	MMAB
7973336a	8.40E-06	1.11	down	1.32	down	1.14	down	1.99	up	MMP14
8151684a	1.22E-09	1.00	down	1.92	down	3.10	down	5.13	up	MMP16
8151686a	1.31E-09	1.33	up	1.85	down	2.12	down	4.78	up	MMP16
7995681a	1.16E-07	1.46	up	4.12	down	1.26	up	4.49	up	MMP2
8062123a	2.90E-07	2.65	down	1.31	down	2.67	down	1.62	up	MMP24
7989146a	8.36E-07	1.62	up	1.39	down	1.61	up	3.01	down	MNS1
8053064a	4.10E-06	1.14	up	1.15	up	1.18	up	1.21	down	MOBK1B
8020955a	2.00E-05	1.10	up	1.73	up	1.06	up	1.64	down	MOCOS
8126214a	4.76E-05	1.15	up	1.38	up	1.12	up	1.25	down	MOCOS1
8112020a	4.13E-08	1.46	down	1.21	down	1.22	down	1.48	up	MOCOS2
7997321a	1.48E-06	1.32	up	1.41	down	1.26	up	1.14	up	MON1B
8103753a	3.95E-05	1.03	down	1.45	down	1.03	up	1.08	down	MORF4
7985226a	5.92E-05	1.02	down	1.30	down	1.07	up	1.09	down	MORF4L1
8174253a	8.59E-07	1.17	up	1.33	down	1.05	up	1.25	down	MORF4L2
7911701a	8.02E-06	1.19	up	1.23	up	1.26	up	1.10	down	MORN1
7909877a	9.52E-08	1.54	up	1.85	up	1.12	up	2.96	down	MOSC1
7909866a	2.25E-05	1.49	up	1.34	up	1.55	up	1.51	down	MOSC2
8175288a	2.48E-05	1.41	up	1.31	down	1.14	up	1.06	down	MOSPD1
8004521a	1.21E-07	1.08	up	1.31	up	1.05	up	1.27	down	MPDU1
8160088a	4.89E-06	1.08	down	1.50	down	1.26	down	1.34	up	MPDZ
8003068a	1.74E-11	1.48	up	1.45	up	1.65	up	1.96	down	MPHOSPH6
8016932a	7.07E-05	1.07	down	1.33	up	1.04	up	1.09	down	MPO
8176174a	2.95E-09	1.07	down	1.75	down	1.22	down	1.75	up	MPP1
8015846a	1.18E-07	1.02	up	1.36	up	1.03	up	1.31	down	MPP3
8058273a	4.27E-08	1.19	up	1.57	down	1.04	down	4.19	up	MPP4

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
7975203a	8.42E-05	1.05	up	1.22	down	1.28	down	1.30	up	MPP5
7932765a	3.10E-07	1.25	up	4.54	up	1.21	up	3.11	down	MPP7
8051066a	3.13E-05	1.34	up	1.10	down	1.29	up	1.14	up	MPV17
7993453a	5.66E-05	1.51	down	1.28	up	1.56	down	1.26	up	MPV17L
7951046a	2.30E-05	1.17	down	1.48	up	1.02	down	1.46	down	MRE11A
8026182a	7.40E-05	1.11	up	1.02	up	1.54	up	1.00	up	MRI1
8006668a	2.51E-05	1.44	up	1.27	up	1.25	up	1.29	down	MRM1
8016366a	4.36E-06	1.19	up	1.46	up	1.05	up	1.11	down	MRPL10
8010664a	7.32E-06	1.24	up	1.19	up	1.17	up	1.19	down	MRPL12
8042962a	1.33E-06	1.23	up	1.15	up	1.15	up	1.16	down	MRPL19
8126512a	1.74E-05	1.18	up	1.39	up	1.15	up	1.06	down	MRPL2
7901601a	9.35E-06	1.10	up	1.17	up	1.06	up	1.05	down	MRPL37
8018511a	2.84E-06	1.25	up	1.16	up	1.25	up	1.25	down	MRPL38
8069620a	6.78E-05	1.06	down	1.25	up	1.19	down	1.22	down	MRPL39
8025586a	3.48E-06	1.06	up	1.23	up	1.13	up	1.37	down	MRPL4
8006762a	2.12E-07	1.04	up	1.46	up	1.01	down	1.56	down	MRPL45
8162880a	4.06E-05	1.12	down	1.20	up	1.20	down	1.70	down	MRPL50
8053165a	5.19E-05	1.24	up	1.05	down	1.06	up	1.01	up	MRPL53;CCDC142
8126394a	9.39E-05	1.01	down	1.16	up	1.12	up	1.13	down	MRPS10
7985757a	4.04E-05	1.08	up	1.36	down	1.03	up	1.09	down	MRPS11
8179139a	8.53E-08	1.63	up	1.52	up	1.57	up	1.03	up	MRPS18B
8159249a	3.65E-07	1.06	up	1.53	up	1.13	up	1.46	down	MRPS2
8060599a	9.60E-06	1.31	down	1.31	up	1.40	down	1.11	down	MRPS26
8105181a	3.06E-08	1.56	up	2.18	up	1.50	up	1.73	down	MRPS30
8044111a	1.21E-06	1.24	up	1.26	up	1.05	up	1.24	down	MRPS9
8157638a	1.09E-05	1.12	down	1.35	up	1.14	down	1.69	down	MRRF
8117194a	1.32E-08	1.24	up	1.47	up	1.32	up	1.17	down	MRS2
7898549a	6.10E-06	1.21	up	1.33	up	1.06	down	1.25	down	MRT04
8151334a	2.24E-09	2.00	up	3.50	down	2.01	up	1.17	up	MSC
8106633a	4.63E-07	1.19	down	1.51	down	1.01	down	1.67	up	MSH3
8118259a	4.34E-05	1.30	up	1.13	down	1.42	up	1.05	up	MSH5;C6orf26
7992071a	1.79E-08	1.75	down	1.73	down	2.73	down	2.18	up	MSLN
8167965a	5.75E-05	1.11	up	1.30	down	1.02	down	1.02	down	MSN
7956856a	7.28E-06	1.45	down	1.28	down	1.28	down	1.05	up	MSRB3
8145766a	3.14E-09	1.38	down	1.38	up	2.18	down	3.46	up	MST131
8093852a	3.90E-05	1.02	up	1.08	up	1.30	up	1.02	down	MSX1
7995806a	5.48E-06	1.42	down	1.07	up	1.41	down	2.01	down	MT1A
7995813a	7.00E-05	1.43	down	1.03	down	1.21	down	1.09	up	MT1DP
7995825a	5.97E-05	1.29	up	1.06	up	1.72	up	1.76	down	MT1F
8095376a	1.43E-05	1.40	down	1.03	up	1.24	down	1.14	up	MT2A
8148124a	9.88E-05	1.07	down	1.09	up	1.19	up	1.45	down	MTBP
8126066a	7.81E-05	1.15	up	1.12	up	1.15	up	1.23	up	MTCH1
8176219a	1.31E-07	1.02	up	1.84	down	1.10	down	1.36	up	MTCP1;MTCP1NB
8147483a	7.05E-05	1.02	up	1.14	up	1.05	up	1.19	down	MTDH
8060196a	3.69E-08	1.38	up	1.07	up	1.40	up	1.14	down	MTERFD2
7903032a	7.23E-05	1.13	down	1.14	up	1.27	down	1.05	down	MTF2
8084064a	9.98E-05	1.13	down	1.16	up	1.21	down	1.08	up	MTHFD2
8003233a	1.09E-05	1.20	up	1.31	up	1.27	up	1.20	down	MTHFSD
8052250a	4.63E-07	1.30	up	1.16	up	1.28	up	1.18	down	MTIF2
8170428a	9.19E-09	1.12	down	2.28	down	1.38	down	1.57	up	MTM1
8170443a	2.25E-09	1.27	down	1.79	down	1.70	down	1.68	up	MTMR1
7987048a	3.12E-05	1.25	down	1.40	down	1.02	up	1.23	down	MTMR10;MTMR15
7919669a	6.84E-09	1.15	down	1.42	down	1.16	down	1.94	up	MTMR11

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8111339a	2.41E-06	1.29	up	1.39	up	1.25	up	1.29	down	MTMR12
7951112a	2.77E-06	1.23	down	1.08	up	1.22	down	1.24	up	MTMR2
8017019a	2.31E-06	1.40	up	1.09	down	1.37	up	1.06	up	MTMR4
7970655a	7.64E-06	1.17	down	1.54	down	1.46	down	1.18	up	MTMR6
8173245a	8.89E-09	1.19	up	1.07	up	1.47	up	6.37	down	MTMR8;ASB12
8144586a	6.26E-07	1.19	down	1.48	down	1.22	down	1.31	up	MTMR9
8130383a	8.22E-05	1.08	up	1.06	down	1.22	up	1.08	down	MTRF1L
8104422a	5.82E-07	1.39	up	1.69	up	1.32	up	1.55	down	MTRR
8002403a	7.91E-06	1.08	up	1.49	down	1.32	up	1.16	up	MTSS1L
7974566a	4.82E-05	1.27	up	1.31	down	1.08	up	1.06	up	MUDENG
8123802a	5.10E-08	1.33	up	1.27	up	1.31	up	1.06	down	MUTED;TXNDC5
8003332a	4.27E-05	1.27	up	1.30	up	1.61	up	1.06	down	MVD
7994659a	1.08E-06	1.50	up	1.25	down	1.16	up	1.80	up	MVP
8098995a	1.70E-06	1.00	down	1.70	down	1.01	up	1.22	up	MXD4
8031047a	8.40E-08	1.47	down	1.42	down	1.55	down	1.41	up	MYADM
8011640a	2.18E-07	1.19	up	1.60	up	1.01	up	1.30	down	MYBBP1A;SPNS2
8151101a	8.95E-06	1.49	down	1.33	down	1.17	down	1.00	up	MYBL1
8060086a	7.90E-08	1.34	up	1.01	down	1.35	up	1.17	down	MYEOV2
8075728a	2.04E-05	1.25	down	1.13	up	1.10	down	1.19	up	MYH9
7956211a	7.39E-06	1.05	down	1.22	down	1.02	up	1.25	up	MYL6
8062312a	5.55E-05	1.00	up	1.12	down	1.05	up	1.31	up	MYL9
8117020a	1.45E-05	1.48	up	2.01	up	2.09	up	1.16	down	MYLIP
8013860a	6.55E-06	1.26	up	1.16	down	1.34	up	1.20	up	MYO18A;TIAF1
8047127a	2.47E-05	1.19	up	1.01	up	1.02	down	1.49	up	MYO1B
8014115a	1.88E-07	1.10	down	1.34	up	1.00	down	2.84	down	MYO1D
7988876a	1.95E-05	2.02	down	1.19	up	2.74	down	2.78	down	MYO5C
7927827a	4.19E-05	2.73	up	1.30	down	3.80	up	1.97	up	MYPN
7916592a	2.07E-05	1.11	up	1.41	up	1.04	up	1.31	down	MYSM1
7995055a	6.73E-05	1.33	up	1.05	up	1.17	up	1.14	up	MYST1
8001317a	2.65E-05	1.15	up	1.20	down	1.16	up	1.34	up	N4BP1
8101086a	4.27E-05	1.04	down	1.96	down	1.01	down	1.10	down	NAAA
8047086a	1.45E-09	1.17	up	1.50	down	1.38	up	1.07	up	NAB1
8139460a	3.77E-05	1.05	up	1.05	down	1.08	down	1.33	up	NACAD
8065510a	3.66E-05	1.68	down	1.33	up	1.62	down	1.22	down	NANP
8156761a	3.00E-05	1.13	down	1.34	up	1.14	down	1.45	down	NANS
8065372a	1.09E-06	2.13	down	1.23	down	2.13	down	1.07	up	NAPB
8141872a	3.22E-06	1.01	up	2.06	down	1.13	down	1.71	up	NAPEPLD
8010804a	3.65E-05	1.10	up	1.13	up	1.38	up	1.03	down	NARF
7989347a	2.71E-06	1.00	up	1.14	down	1.17	up	1.47	down	NARG2
8023481a	3.63E-05	1.02	down	1.22	up	1.01	down	1.19	down	NARS
7939265a	2.95E-09	1.29	up	1.83	up	1.05	up	1.50	down	NAT10
8061262a	6.05E-07	1.85	down	1.03	down	2.12	down	1.01	down	NAT5
8093578a	9.29E-09	1.16	down	1.59	up	1.03	down	1.20	down	NAT8L
7908694a	4.18E-06	1.11	down	1.44	down	1.48	down	1.83	up	NAV1
8050367a	4.35E-07	1.10	up	1.24	down	1.07	up	1.32	up	NBAS
7904976a	6.77E-07	1.14	down	1.15	up	1.30	down	1.09	up	NBPF8;NBPF10-12/14-16/20
8007471a	1.25E-07	1.18	up	1.38	up	1.24	up	1.94	down	NBR1
8007462a	6.14E-06	1.06	down	1.43	up	1.08	down	1.56	down	NBR2
7952830a	2.69E-05	1.27	down	1.17	down	1.13	down	1.08	down	NCAPD3
8156718a	6.58E-06	1.16	down	1.31	up	1.08	down	1.36	down	NCBP1
8093156a	9.22E-05	1.11	up	1.06	up	1.22	up	1.41	down	NCBP2
7922773a	2.79E-06	1.27	down	1.54	down	1.91	down	1.92	up	NCF2
8082911a	2.89E-05	1.03	up	1.31	up	1.07	up	1.39	down	NCK1

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8059689a	1.10E-05	1.15	up	1.16	up	1.05	up	1.18	down	NCL;LOC100289394
8063211a	3.78E-05	1.06	up	1.28	down	1.10	up	1.27	up	NCOA3
8121861a	3.21E-06	1.28	up	1.45	down	1.67	up	1.24	up	NCOA7
8000957a	5.19E-07	1.43	up	1.73	up	1.34	up	1.38	down	NCRNA00095
8176336a	3.11E-05	1.18	up	1.11	up	1.41	up	1.07	down	NCRNA00105;ASMTL
8042059a	6.31E-05	1.29	up	1.03	down	1.19	up	1.01	up	NCRNA00117
8054611a	3.37E-05	1.07	up	1.38	down	1.03	up	1.18	up	NCRNA00152;LOC541471
8177214a	9.66E-06	1.18	down	1.43	down	1.21	down	1.41	up	NCRNA00185
7906576a	8.42E-05	1.22	down	1.25	down	1.42	down	1.12	up	NCSTN;COPA
7993467a	2.38E-07	1.31	up	1.12	up	1.33	up	1.02	down	NDE1;MYH11
8066051a	2.36E-05	1.07	up	1.13	down	1.31	up	1.13	up	NDRG3
8109283a	2.79E-05	1.17	down	1.30	down	1.23	down	1.22	up	NDST1
7934459a	1.40E-05	1.08	up	1.41	down	1.10	up	1.00	down	NDST2
8169659a	1.54E-05	1.07	up	1.56	down	1.04	down	1.07	down	NDUFA1
8163930a	1.25E-05	1.05	down	1.34	up	1.08	up	1.42	down	NDUFA8
8050591a	6.99E-06	1.46	down	1.05	down	1.29	down	1.14	up	NDUFAF2
7992402a	4.66E-06	1.12	up	1.23	down	1.22	down	1.52	up	NDUFB10
8172296a	7.52E-08	1.16	up	1.15	down	1.09	up	1.14	down	NDUFB11
8105311a	1.69E-08	1.85	down	1.48	down	1.29	down	1.59	up	NDUFS4
8104298a	4.49E-06	1.15	up	1.34	up	1.25	up	1.36	down	NDUFS6
8068857a	6.00E-08	1.05	up	1.29	up	1.16	down	1.22	down	NDUFV3
7989094a	4.18E-09	1.06	up	3.14	down	1.07	up	1.33	up	NEDD4
8123936a	1.41E-05	2.10	up	1.22	down	2.09	up	1.32	down	NEDD9
7916986a	2.12E-08	1.37	down	1.90	down	3.82	down	3.18	up	NEGR1
8103646a	1.06E-05	1.17	down	1.77	down	1.18	down	1.15	up	NEK1
8005959a	3.78E-05	1.12	up	1.16	up	1.12	up	1.20	down	NEK8
8165552a	1.21E-06	1.04	down	1.40	up	1.40	up	1.38	down	NELF
7925954a	1.10E-05	1.06	down	1.13	up	1.20	down	1.72	up	NET1
8001197a	3.69E-08	1.20	down	1.53	down	1.21	down	2.32	up	NETO2
8179851a	3.04E-08	1.59	up	1.01	down	1.53	up	1.26	up	NEU1
7902495a	9.20E-06	1.30	down	1.43	down	1.71	down	1.08	up	NEXN
7917151a	8.90E-05	1.11	down	1.34	up	1.24	down	1.02	up	NEXN;C1orf118
7909027a	1.01E-06	1.29	down	1.13	down	2.20	down	1.77	up	NFASC
7996954a	9.74E-05	1.16	up	1.34	down	1.19	up	1.30	up	NFAT5
7994506a	1.05E-06	1.36	up	1.09	up	1.14	up	1.06	down	NFATC2IP
7996744a	8.73E-05	1.07	up	1.26	down	1.12	up	1.26	up	NFATC3
7973709a	1.64E-05	1.42	up	1.19	up	1.08	down	1.24	down	NFATC4
8056977a	2.70E-09	1.29	up	1.20	down	1.42	up	1.19	down	NFE2L2
7901788a	5.45E-10	1.15	down	2.52	down	1.47	down	6.59	down	NFIA
8026139a	6.89E-05	1.26	down	1.26	down	1.05	down	1.39	up	NFIX
7978644a	6.10E-07	1.55	up	1.50	down	1.54	up	1.05	down	NFKBIA
8028552a	5.24E-09	1.05	up	1.63	up	1.17	down	1.71	down	NFKBIB
8179249a	2.20E-06	1.18	up	1.02	up	1.40	up	1.01	down	NFKBIL1
8153790a	9.86E-05	1.11	down	1.22	down	1.06	down	1.14	up	NFKBIL2
7952677a	6.78E-08	1.15	up	1.21	down	1.02	up	1.52	down	NFRKB
8052784a	9.90E-06	1.19	up	1.05	up	1.12	up	1.16	down	NFU1
7985983a	2.52E-05	1.13	up	1.31	down	1.27	up	1.14	down	NGRN
8059071a	2.87E-05	1.33	up	1.16	up	1.41	up	1.03	down	NHEJ1;SLC23A3
8166266a	7.01E-07	1.07	down	1.17	down	1.23	down	1.37	up	NHS
7925320a	7.23E-05	1.28	up	1.38	up	1.22	up	2.17	down	NID1
8047356a	4.04E-05	1.20	up	1.01	up	1.29	up	1.03	up	NIF3L1;LOC100129888
8162455a	2.89E-05	1.12	up	1.17	down	1.52	up	1.01	up	NINJ1
8065485a	1.01E-07	1.50	down	1.24	up	1.55	down	1.20	down	NINL

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
7986675a	1.39E-06	1.00	down	1.20	down	1.16	up	1.91	down	NIPA1
7986665a	2.17E-06	1.07	up	1.16	down	1.14	up	1.19	down	NIPA2;CYFIP1
7898939a	1.40E-06	1.14	down	1.21	up	1.44	down	1.57	up	NIPAL3
8109563a	1.62E-05	1.33	up	1.78	up	1.16	up	1.98	down	NIPAL4
8007197a	3.53E-06	1.10	up	1.29	up	1.14	up	1.72	down	NKIRAS2
8115840a	4.35E-07	1.12	up	1.36	up	1.32	up	1.48	down	NKX2-5
8149811a	3.33E-05	1.14	down	1.27	down	1.13	down	1.48	up	NKX3-1
8014214a	2.74E-07	1.17	up	1.67	up	1.07	up	1.69	down	NLE1
8004385a	1.60E-07	1.37	up	1.24	up	1.21	up	1.24	down	NLGN2
8005814a	4.53E-06	1.13	up	1.30	down	1.20	up	1.45	down	NLK
7995926a	6.90E-08	1.05	down	1.56	down	1.03	up	1.43	up	NLRC5
7946334a	5.30E-07	1.19	down	2.36	up	1.86	down	1.41	up	NLRP10
8039545a	3.30E-05	1.09	up	1.14	up	1.61	up	1.06	up	NLRP11
8083757a	3.27E-07	1.18	up	1.51	up	1.13	up	1.62	down	NMD3
8114354a	5.78E-09	1.03	up	1.15	up	1.03	down	1.45	down	NME5
8007715a	7.77E-08	1.02	up	1.36	up	1.05	up	1.57	down	NMT1
7932227a	1.19E-08	1.49	down	1.76	down	1.86	down	1.49	up	NMT2
8100464a	2.71E-08	1.60	down	2.70	up	2.34	down	1.72	down	NMU
7943998a	6.47E-05	1.28	down	1.53	up	1.12	down	1.09	down	NNMT
7911359a	3.04E-06	1.00	up	1.44	up	1.10	down	1.05	down	NOC2L
7935146a	2.13E-07	1.29	down	1.20	up	1.59	down	1.38	down	NOC3L
7996448a	9.22E-05	1.20	up	1.04	down	1.28	up	1.10	up	NOL3
8162352a	5.56E-07	1.16	down	1.49	up	1.02	down	1.83	down	NOL8
7912086a	2.94E-07	1.03	up	1.31	up	1.14	down	1.10	down	NOL9
8168280a	4.47E-07	1.18	up	1.11	down	1.05	up	1.11	down	NONO
8099051a	1.01E-05	1.10	down	1.17	up	1.37	down	1.19	down	NOP14
7960575a	5.36E-06	1.18	up	1.49	up	1.15	up	1.16	down	NOP2
8060484a	5.66E-07	1.44	down	1.22	up	1.77	down	1.06	down	NOP56;SNORD56
8047518a	2.74E-07	1.07	up	1.20	up	1.02	up	1.29	down	NOP58
8165217a	4.00E-05	1.12	down	1.61	up	1.03	up	1.24	down	NOTCH1
7919095a	7.56E-05	1.01	down	1.17	down	1.23	down	1.20	up	NOTCH2
7904702a	7.96E-05	1.08	down	1.24	down	1.30	down	1.03	up	NOTCH2NL;NBPF14;NBPF10
8148049a	2.01E-09	1.42	up	3.57	up	1.47	up	3.38	down	NOV
7950933a	9.02E-10	1.14	down	8.16	up	1.19	down	1.21	down	NOX4
8029870a	4.11E-07	1.11	up	1.43	up	1.03	down	1.26	down	NPAS1
8043909a	1.67E-06	2.49	up	1.52	up	1.59	up	1.53	up	NPAS2
7951497a	4.19E-05	1.15	down	1.27	up	1.06	down	1.19	down	NPAT
7980146a	1.12E-06	1.01	down	1.34	down	1.10	down	1.43	up	NPC2
8165406a	4.08E-05	1.32	down	1.22	up	1.18	down	1.12	down	NPDC1
7912520a	5.82E-07	2.47	down	9.70	up	5.14	down	3.11	down	NPPB
8155121a	5.60E-10	1.49	up	1.37	down	1.87	up	1.52	down	NPR2
8104746a	1.33E-08	1.42	up	18.52	down	1.59	down	1.94	up	NPR3
7990253a	2.03E-06	1.13	down	1.69	down	1.18	down	1.06	up	NPTN
8002303a	2.17E-09	1.55	up	1.52	down	2.11	up	1.13	down	NQO1
8116610a	1.98E-07	1.58	up	1.15	up	1.76	up	1.30	down	NQO2;LOC401233
8035628a	1.14E-05	1.01	up	1.58	down	1.31	up	1.19	up	NR2C2AP;RFXANK
8103094a	8.95E-06	1.24	up	2.03	down	1.21	up	1.66	down	NR3C2
8164087a	2.47E-05	1.25	down	1.19	up	1.32	down	1.07	down	NR6A1
8142270a	8.50E-05	1.50	up	1.12	up	1.00	down	1.01	up	NRCAM
8145736a	5.21E-07	1.02	down	1.49	up	1.67	down	2.35	up	NRG1
8069553a	2.98E-06	1.23	up	1.02	up	1.14	down	2.63	up	NRIP1
8169115a	1.91E-05	1.32	down	3.28	up	1.27	down	1.03	down	NRK
7932985a	4.38E-07	1.12	up	1.39	down	1.24	down	5.04	up	NRP1

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8047738a	2.65E-05	1.19	up	1.09	up	1.04	up	2.69	up	NRP2
8060339a	1.98E-05	1.42	down	1.10	up	1.67	down	1.11	down	NRSN2
8170590a	4.97E-07	1.05	down	1.57	down	1.05	down	1.31	up	NSDHL
8064438a	3.30E-09	1.64	down	1.14	up	1.83	down	1.05	down	NSFL1C
8150928a	1.91E-05	1.19	down	1.18	up	1.01	down	1.29	down	NSMAF
8110894a	6.81E-07	1.27	up	1.70	up	1.14	up	1.43	down	NSUN2
7901219a	1.73E-06	1.22	up	1.15	up	1.03	up	1.21	down	NSUN4
8140020a	2.98E-07	1.12	up	1.34	up	1.18	up	1.35	down	NSUN5
8094759a	2.87E-09	1.07	up	1.05	up	1.03	down	1.83	down	NSUN7
8015445a	7.04E-09	1.11	up	1.42	up	1.13	up	1.59	down	NT5C3L
7999598a	1.21E-05	1.14	up	1.36	down	1.06	up	1.35	up	NTAN1;PDXDC1
7953284a	6.05E-15	1.12	down	1.03	down	1.14	down	4.32	up	NTF3
7945245a	1.10E-06	1.45	down	1.36	up	1.48	down	1.63	up	NTM
7965573a	1.19E-06	1.15	down	1.76	down	1.47	up	6.01	up	NTN4
7923753a	9.45E-06	1.08	up	2.00	down	1.03	up	1.27	up	NUAK2
7993185a	6.91E-06	1.23	up	1.51	up	1.00	down	1.04	up	NUBP1
7899273a	4.91E-05	1.06	up	1.31	up	1.04	down	1.01	up	NUDC
8152340a	6.83E-05	1.01	down	1.15	up	1.00	down	1.59	down	NUDCD1
7981566a	1.48E-05	1.40	up	1.11	up	1.72	up	1.01	up	NUDT14
8082663a	4.38E-05	1.27	down	1.37	up	1.35	down	1.03	down	NUDT16P
8096251a	2.61E-06	1.01	down	1.42	down	1.03	down	1.09	up	NUDT9
8036923a	5.69E-05	1.19	up	1.01	up	1.09	up	1.10	down	NUMBL
8124059a	4.58E-05	1.24	up	1.06	up	1.29	up	1.04	up	NUP153
8111629a	4.19E-05	1.10	up	1.49	up	1.18	up	1.15	down	NUP155
7947991a	3.06E-07	1.15	up	1.31	up	1.17	up	1.24	down	NUP160
8158446a	2.77E-05	1.35	down	1.19	up	1.17	down	1.31	down	NUP188
8085431a	4.19E-09	1.97	down	3.50	up	1.61	down	4.88	down	NUP210
8158783a	6.23E-05	1.21	down	1.29	up	1.02	down	1.39	down	NUP214
8046804a	5.01E-05	1.23	up	1.24	up	1.13	up	1.19	down	NUP35
8073733a	1.51E-05	1.10	up	1.44	up	1.02	down	1.25	down	NUP50
8011832a	9.37E-05	1.03	down	1.11	up	1.04	down	1.36	down	NUP88
7945902a	3.14E-06	1.11	up	1.26	up	1.00	down	1.12	down	NUP98
8000574a	4.42E-05	1.33	up	1.66	down	1.12	up	1.33	up	NUPR1
7982889a	7.25E-05	1.22	down	1.33	down	1.02	up	1.28	down	NUSAP1
7996677a	2.96E-07	1.04	up	1.34	down	1.16	up	1.24	up	NUTF2
7948839a	9.79E-05	1.06	up	1.23	up	1.07	down	1.14	down	NXF1
8061368a	5.76E-06	1.32	down	1.16	up	1.49	down	1.11	down	NXT1
8169352a	3.11E-07	1.12	up	1.30	down	1.20	up	1.21	down	NXT2
7958884a	6.40E-05	1.40	up	1.07	down	1.34	up	1.19	down	OAS1
7958895a	3.85E-08	1.42	up	1.01	up	1.57	up	1.35	down	OAS3
7989661a	9.97E-05	1.16	up	1.25	down	1.13	up	1.13	down	OAZ2
7936134a	4.56E-10	1.04	up	1.74	down	1.16	up	1.99	up	OBFC1
8094974a	3.06E-08	1.15	down	1.48	down	1.19	down	1.22	up	OCIAD1
8100298a	3.85E-06	1.12	down	2.36	down	1.29	down	1.02	down	OCIAD2
8158269a	1.84E-06	1.15	down	1.37	up	1.04	up	1.30	down	ODF2
8109752a	2.29E-07	1.20	down	3.40	up	1.11	down	2.04	down	ODZ2
8098441a	2.30E-07	2.61	down	1.09	down	2.21	down	1.07	up	ODZ3
8132592a	2.99E-05	1.42	up	1.18	up	1.33	up	1.14	down	OGDH
7995755a	1.91E-05	1.07	up	1.04	down	1.05	up	1.69	up	OGFOD1
7987636a	3.90E-05	1.05	down	1.17	down	1.16	up	1.28	down	OIP5
8056812a	1.58E-06	1.10	up	1.29	up	1.15	up	1.09	down	OLA1
7938225a	6.62E-05	1.33	up	1.13	down	1.07	up	1.05	down	OLFML1
7921882a	2.37E-06	1.17	up	1.47	down	1.54	up	2.58	up	OLFML2B

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
7961142a	1.19E-06	1.65	up	7.11	up	2.04	up	5.53	down	OLR1
8173310a	4.05E-06	1.17	up	1.63	down	1.24	down	1.54	up	OPHN1
7925492a	3.87E-06	1.59	up	1.61	down	1.23	down	2.66	up	OPN3;KMO
7911231a	2.83E-06	1.36	up	1.62	up	1.01	down	1.44	down	OR2W3
7939920a	6.62E-05	1.16	up	1.12	down	1.13	up	1.04	up	OR4A13P
8008718a	3.21E-05	1.08	up	1.25	down	1.06	up	1.02	up	OR4D2
7981781a	3.25E-07	1.09	up	1.28	down	1.41	up	1.03	down	OR4M2;LOC727924
7945958a	9.17E-05	1.10	down	1.32	up	1.07	down	1.03	down	OR52B4
8081196a	9.11E-05	1.08	up	1.11	down	1.06	up	1.03	up	OR5H14;OR5H15
8055645a	1.36E-07	1.18	up	1.41	up	1.09	up	1.32	down	ORC4L
7995354a	4.87E-05	1.08	up	1.28	down	1.19	up	1.55	up	ORC6L
7945831a	5.39E-07	1.30	up	1.14	down	1.52	up	1.08	down	OSBPL5
7914923a	1.47E-05	1.04	up	1.45	up	1.14	up	1.16	down	OSCP1
7997533a	8.97E-05	1.11	up	1.21	up	1.27	up	1.01	down	OSGIN1
8172478a	1.36E-05	1.22	up	1.12	down	1.14	up	1.09	down	OTUD5
7915257a	8.04E-08	1.26	down	1.25	up	1.36	down	1.26	down	OXCT2
8078738a	1.20E-05	1.22	down	1.00	down	1.36	down	1.07	down	OXSR1
8085138a	4.20E-05	1.11	down	3.30	up	1.32	down	2.84	down	OXTR
8011415a	1.06E-07	1.04	down	2.67	up	1.01	up	3.31	down	P2RX5
8071489a	5.76E-05	1.16	up	1.02	down	1.19	up	1.23	up	P2RX6
8113981a	8.66E-08	1.17	down	1.34	down	1.20	down	1.67	up	P4HA2
7950374a	7.46E-06	1.08	down	1.88	down	1.09	down	1.26	up	P4HA3
7973384a	7.44E-06	1.21	up	1.10	down	1.13	up	1.07	down	PABPN1
7941537a	7.26E-05	1.11	down	1.48	up	1.03	down	1.02	up	PACS1
7947801a	3.24E-06	1.43	up	1.07	down	1.24	up	1.17	up	PACSIN3
8003758a	7.82E-05	1.10	up	1.00	up	1.09	up	1.28	down	PAFAH1B1
7944042a	3.81E-05	1.09	down	1.24	up	1.00	down	1.22	down	PAFAH1B2
7913883a	5.48E-06	1.08	down	1.39	up	1.20	down	1.15	up	PAFAH2
8151512a	3.27E-06	1.48	up	1.84	down	1.02	up	1.89	up	PAG1
8111974a	8.35E-06	1.22	up	1.35	up	1.24	up	1.22	down	PAIP1
8169389a	2.96E-05	1.18	down	1.71	down	1.30	down	1.38	up	PAK3
8000329a	6.03E-05	1.33	up	1.08	up	1.16	up	1.25	up	PALB2
8098263a	1.87E-07	1.50	down	1.67	down	1.66	down	1.32	up	PALLD
8107133a	3.04E-08	1.58	down	1.27	down	1.66	down	1.41	up	PAM
7947512a	3.27E-08	2.55	down	1.26	down	3.84	down	4.58	up	PAMR1
8060722a	3.13E-07	1.47	down	1.11	up	1.48	down	1.08	down	PANK2
7911730a	4.22E-06	1.04	up	1.31	up	1.08	down	1.11	up	PANK4
8073992a	6.19E-07	1.09	up	1.16	up	1.29	up	1.18	down	PANX2
8106534a	6.65E-07	1.15	down	1.26	down	1.02	up	1.48	up	PAPD4
8042119a	1.11E-06	1.18	up	1.21	up	1.16	up	1.29	down	PAPOLG
8102214a	4.06E-09	1.03	down	1.96	down	1.27	down	1.70	up	PAPSS1
7992775a	5.34E-05	1.03	down	1.05	down	1.07	up	1.49	up	PAQR4
8092409a	8.48E-05	1.26	up	1.25	up	1.07	up	1.22	down	PARL
7999562a	2.52E-08	1.44	up	1.22	up	1.37	up	1.06	down	PARN
8143327a	5.37E-08	1.38	up	1.13	up	1.11	up	1.71	down	PARP12
8082100a	6.88E-06	1.38	up	1.06	down	1.38	up	1.81	down	PARP14
8080144a	3.59E-06	1.03	up	1.43	down	1.04	down	1.69	up	PARP3
7970602a	3.13E-05	1.07	down	1.45	down	1.20	down	1.23	up	PARP4
7990165a	5.74E-06	1.09	up	1.47	down	1.20	up	1.01	down	PARP6
8073662a	1.26E-05	1.10	up	1.25	up	1.10	up	1.76	down	PARVB
8060205a	1.43E-05	1.09	up	1.17	up	1.38	up	1.01	up	PASK
7965112a	1.30E-06	1.19	down	1.77	down	1.04	up	1.36	up	PAWR
7947338a	1.64E-10	4.04	down	3.14	up	2.15	down	6.09	down	PAX6

Transcript ID	Arsenic			Chromium		Nickel		Vanadium		Gene Symbol
	p-value	Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
7973974a	1.05E-05	1.20	down	1.38	up	1.07	up	2.62	down	PAX9
8149955a	2.21E-05	1.01	down	1.49	down	1.04	down	1.14	up	PBK
7906954a	1.75E-06	3.05	up	1.17	down	2.76	up	2.26	up	PBX1
8125360a	1.06E-07	1.27	up	1.06	down	1.35	up	1.05	up	PBX2
8157890a	6.29E-07	1.81	down	1.32	up	1.23	down	1.38	down	PBX3
8087806a	2.12E-07	1.28	down	1.52	down	1.23	down	1.71	up	PCBP4
7969330a	3.44E-06	1.23	up	1.58	up	1.02	up	1.12	up	PCDH17
8108733a	3.00E-05	1.05	up	1.02	up	1.56	up	1.60	down	PCDHB12
8108753a	8.42E-08	1.22	up	1.28	down	1.40	up	3.51	down	PCDHB15
8053187a	6.60E-07	1.27	up	1.12	up	1.32	up	1.02	up	PCGF1
8063097a	6.95E-06	1.12	up	1.15	down	1.22	up	1.28	up	PCIF1
8140620a	3.64E-05	1.83	up	1.13	up	1.15	up	1.12	up	PCLO
8064844a	8.32E-08	1.77	down	1.04	down	1.64	down	1.16	up	PCNA
8134869a	5.38E-06	1.49	up	1.04	up	1.49	up	1.10	up	PCOLCE
8167103a	7.20E-07	1.22	up	1.16	down	1.17	up	1.03	down	PCTK1
8019778a	1.43E-06	1.26	up	1.12	down	1.53	up	1.10	down	PCYT2
8141273a	4.60E-05	1.00	down	1.26	up	1.01	up	1.25	down	PDAP1
8027642a	7.46E-05	1.04	down	1.48	up	1.27	down	1.26	down	PDCD2L
8027473a	6.06E-05	1.14	down	1.08	down	1.30	down	1.20	up	PDCD5
8110858a	2.87E-05	1.23	up	1.11	up	1.26	up	1.11	down	PDCD6;LOC728613
8078479a	3.99E-05	1.22	down	1.21	down	1.23	down	1.02	up	PDCD6IP
8043902a	9.15E-06	1.49	up	1.12	up	1.35	up	1.13	down	PDCL3
8130674a	7.28E-09	1.17	up	1.04	down	6.55	up	1.02	down	PDE10A
8057486a	2.63E-05	1.41	up	1.10	down	1.15	up	1.06	up	PDE1A
8025633a	4.94E-07	1.37	down	1.19	up	1.02	down	1.47	down	PDE4A
8112220a	5.90E-05	1.09	up	1.09	down	1.47	up	1.13	up	PDE4D;LOC653198
8059731a	9.33E-08	1.39	up	1.16	down	1.34	up	1.15	up	PDE6D
8122222a	4.39E-05	1.02	up	1.06	down	1.10	up	2.18	up	PDE7B
8068833a	1.13E-06	1.14	up	1.24	up	1.97	up	1.40	down	PDE9A;LOC100132338
8137670a	2.09E-05	1.12	up	1.79	down	2.11	up	1.03	up	PDGFA;LOC100132080
8076195a	5.81E-06	1.19	down	1.96	down	1.19	up	1.04	down	PDGFB
8103399a	3.49E-08	1.33	down	2.17	down	1.30	down	1.66	up	PDGFC
8144802a	1.25E-05	2.18	up	1.12	down	1.50	up	1.57	down	PDGFR
8166335a	8.85E-07	1.02	down	1.45	up	1.20	down	1.19	down	PDHA1
8088384a	3.18E-05	1.17	down	1.39	down	1.34	down	1.06	up	PDHB
8050278a	1.90E-07	1.19	up	1.14	down	1.06	up	1.41	up	PDIA6
8040249a	2.03E-06	1.01	up	1.27	down	1.01	up	1.20	up	PDIA6;ATP6V1C2
8166511a	5.40E-05	1.03	down	2.05	up	1.31	down	1.17	down	PDK3
7935180a	1.28E-05	1.33	down	1.09	down	1.28	down	1.19	up	PDLIM1
8104022a	2.84E-06	1.62	up	1.12	up	3.03	up	1.62	down	PDLIM3
8107897a	1.03E-05	1.12	down	2.15	down	1.12	down	1.34	up	PDLIM4
8096489a	1.12E-06	1.10	down	1.71	down	1.11	down	1.57	up	PDLIM5
8116070a	1.31E-07	1.10	down	1.48	down	1.13	down	1.55	up	PDLIM7
7998820a	1.97E-08	1.18	down	1.20	down	1.43	down	2.09	up	PDPK1;FLI42627
7998825a	1.43E-06	1.00	down	1.31	down	1.27	down	1.31	up	PDPK1;PDPK2
8128626a	1.74E-05	1.25	up	1.06	up	1.35	up	1.22	down	PDSS2
7993433a	2.66E-06	1.40	up	1.20	up	1.18	up	1.01	up	PDXDC1
8173373a	3.55E-06	1.10	up	1.31	down	1.00	up	1.06	down	PDZD11
8104693a	4.76E-05	1.46	down	1.65	down	1.62	down	1.12	down	PDZD2
7936559a	1.28E-07	1.24	down	1.15	down	1.41	down	1.33	up	PDZD8
7904843a	2.85E-07	2.16	down	1.29	up	3.04	down	1.00	down	PDZK1;PDZK1P1
7906264a	4.49E-07	1.38	up	1.81	down	1.28	up	1.02	down	PEAR1
8134339a	1.00E-07	1.37	up	3.07	up	1.06	down	1.48	down	PEG10

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8039607a	8.10E-06	1.15	down	1.18	up	1.01	up	1.09	up	PEG3;ZIM2
8105229a	1.07E-05	1.21	down	1.40	down	1.58	down	1.35	up	PELO;ITGA1
8011692a	1.10E-07	1.27	up	1.46	up	1.14	up	1.19	down	PELP1
8013120a	2.83E-05	1.19	up	1.54	up	1.26	up	1.10	down	PEMT
8012349a	9.46E-06	1.05	up	1.37	down	1.03	up	1.03	down	PER1
8059996a	2.94E-05	1.35	up	1.27	down	1.35	up	1.52	up	PER2
7897378a	7.24E-09	1.11	down	1.72	down	1.07	down	2.22	up	PER3;UTS2
8129880a	3.43E-07	2.15	up	4.72	up	5.04	up	1.60	down	PERP
7991323a	1.99E-08	1.25	up	1.18	up	1.34	up	1.25	down	PEX11A
7904755a	3.02E-05	1.03	up	1.39	down	1.00	up	1.07	up	PEX11B
8014264a	3.77E-07	1.30	up	1.21	up	1.31	up	1.50	down	PEX12
8042161a	1.55E-05	1.15	up	1.18	down	1.23	up	1.06	down	PEX13
7947609a	6.01E-05	1.21	up	1.24	up	1.21	up	1.02	down	PEX16
8004804a	6.21E-06	1.11	up	1.54	up	1.01	down	1.34	down	PFAS
8134098a	7.70E-06	1.63	down	3.33	down	1.51	down	1.07	up	PFTK1
8047467a	1.38E-10	1.35	down	1.24	up	1.18	down	3.35	up	PFTK2
7958152a	4.46E-08	1.10	down	1.29	up	1.29	down	1.10	up	PGAM1;PGAM4
7965480a	1.73E-07	1.12	down	1.20	up	1.21	down	1.07	up	PGAM1;PGAM4
8176282a	1.72E-08	1.11	down	1.17	up	1.18	down	1.06	up	PGAM4;PGAM1
7960124a	2.82E-05	1.08	up	1.37	up	1.14	up	1.10	down	PGAM5;PXMP2
7937892a	2.07E-07	1.49	up	1.01	down	1.35	up	1.07	down	PGAP2
8117675a	2.41E-05	1.23	up	1.36	down	1.44	up	1.01	up	PGBD1
7911301a	5.70E-05	1.29	up	1.33	down	1.25	down	1.13	up	PGBD2
8147469a	1.79E-05	2.09	up	1.74	down	2.89	up	1.18	down	PGCP
7980233a	4.70E-07	1.57	up	2.44	down	1.88	up	1.15	up	PGF
7901951a	1.73E-06	1.07	down	1.01	up	1.62	down	1.33	up	PGM1
7998759a	3.02E-05	1.15	up	1.22	down	1.02	down	1.23	up	PGP
8169617a	1.81E-08	1.37	up	1.24	down	1.11	up	1.06	up	PGRMC1
8122426a	1.21E-05	1.31	down	1.74	down	1.25	down	1.15	up	PHACTR2
8118682a	1.15E-07	1.40	up	1.19	down	1.58	up	1.14	up	PHF1
8013812a	6.11E-05	1.29	up	1.27	up	1.19	up	1.29	down	PHF12
8167013a	3.32E-05	1.14	up	1.18	down	1.12	up	1.47	down	PHF16
8012099a	5.06E-07	1.37	up	1.11	up	1.03	up	1.27	down	PHF23;NUP98
8173551a	1.31E-09	1.44	up	1.56	up	1.81	up	5.33	down	PHKA1
7995382a	4.85E-08	1.03	up	1.69	down	1.10	up	1.86	up	PHKB
7994928a	5.46E-11	1.59	up	1.15	up	1.41	up	1.03	down	PHKG2
7923372a	1.64E-07	1.03	down	1.43	down	1.05	down	1.65	up	PHLDA3
7984453a	5.36E-05	1.02	up	1.26	down	1.00	up	1.18	down	PIAS1
7950838a	4.32E-06	1.17	down	1.18	down	1.30	down	1.11	up	PICALM
8171418a	1.64E-05	1.02	down	1.37	up	1.19	down	1.28	down	PIGA
7983811a	1.05E-05	1.02	down	1.64	down	1.10	up	1.28	down	PIGB;CCPG1
7922330a	2.02E-05	1.02	down	1.57	down	1.02	up	1.01	up	PIGC
8005157a	2.08E-06	1.01	up	1.38	up	1.01	up	1.33	down	PIGL
8013641a	5.32E-05	1.20	up	1.16	up	1.14	up	1.59	down	PIGS
8038382a	5.75E-05	1.41	down	1.12	down	1.36	down	1.06	up	PIH1D1
8075483a	7.03E-05	1.12	down	1.56	down	1.18	down	1.01	down	PIK3IP1
8105778a	2.03E-06	1.30	up	1.33	down	1.08	up	1.79	up	PIK3R1
7915787a	6.29E-07	1.24	down	1.84	down	1.18	down	2.42	up	PIK3R3
8047865a	8.63E-06	1.27	up	1.09	down	1.22	up	1.06	down	PIKFYVE
8119161a	6.00E-08	1.19	up	1.36	up	1.85	up	1.15	down	PIM1
8172471a	9.71E-09	1.32	up	1.30	down	1.24	up	1.20	down	PIM2
8073960a	9.30E-05	1.02	up	1.25	up	1.09	up	1.26	down	PIM3
8014723a	1.07E-05	1.03	up	1.29	up	1.04	down	1.42	down	PIP4K2B

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8011077a	6.32E-07	1.07	down	1.34	up	1.05	down	1.24	down	PITPNA
7967358a	1.93E-06	1.18	up	1.15	down	1.47	up	1.28	up	PITPNM2
7943240a	7.89E-05	1.02	up	1.23	up	1.10	down	1.01	up	PIWIL4
8173340a	1.74E-06	1.26	up	1.35	down	1.01	up	1.13	down	PJA1
8096314a	8.66E-06	1.07	down	1.43	down	1.22	down	1.40	up	PKD2
8062852a	3.33E-06	1.12	up	1.03	down	1.46	up	1.13	up	PKIG
7998886a	9.28E-06	1.03	down	1.03	down	1.17	down	1.61	up	PKMYT1
8026315a	8.81E-05	1.10	up	1.13	up	1.29	up	1.34	down	PKN1
7948987a	4.38E-05	1.67	up	1.13	up	1.72	up	1.52	down	PLA2G16
7913235a	2.92E-05	1.14	down	1.08	up	1.16	down	1.07	up	PLA2G2C
8056151a	2.15E-06	1.67	up	1.16	down	1.28	up	1.85	down	PLA2R1
8129985a	3.25E-06	1.65	down	1.18	up	1.90	down	1.63	up	PLAGL1
8150509a	5.22E-05	1.68	up	2.68	up	1.01	down	2.02	up	PLAT
8037374a	4.98E-05	1.03	down	1.47	up	1.69	down	1.48	up	PLAUR
7961440a	8.49E-07	1.05	down	1.73	up	1.01	up	5.21	down	PLBD1
8060897a	3.91E-05	2.13	down	1.24	up	1.33	down	2.87	down	PLCB4
8016168a	4.85E-07	1.05	up	1.17	up	1.22	up	1.43	down	PLCD3
7929388a	6.53E-08	1.57	down	2.57	down	1.51	down	2.27	up	PLCE1
7997453a	9.45E-11	1.48	up	1.20	up	2.12	up	1.68	down	PLCG2
8176286a	2.50E-09	1.50	up	2.51	up	1.83	up	2.28	down	PLCXD1
8003962a	4.19E-09	1.45	up	1.09	up	1.47	up	1.30	down	PLD2
8013068a	1.36E-07	1.25	up	1.75	up	1.15	up	1.18	down	PLD6
7983502a	4.47E-06	1.09	up	1.32	down	1.13	up	1.26	down	PLDN
8153568a	9.28E-08	1.21	down	1.46	down	1.08	down	1.44	up	PLEC1
7931081a	4.98E-08	1.35	down	1.47	down	1.51	down	1.26	up	PLEKHA1
8145977a	1.66E-06	1.02	down	1.57	down	1.02	down	1.80	up	PLEKHA2
7946781a	2.21E-06	1.37	down	1.41	up	2.28	down	1.26	down	PLEKHA7
8028656a	8.34E-06	1.01	down	1.55	down	1.05	down	1.04	up	PLEKHG2
7996516a	6.53E-08	1.20	down	1.69	down	1.10	down	1.64	up	PLEKHG4
8104141a	3.19E-07	1.21	down	1.01	up	1.28	down	1.49	up	PLEKHG4B
8041644a	5.56E-05	1.54	up	1.12	down	1.57	up	1.33	down	PLEKHH2
8017675a	1.73E-06	1.08	up	1.23	up	1.08	up	1.49	down	PLEKHM1P;LOC100291232
7905116a	9.23E-06	1.32	down	1.63	down	1.30	down	1.18	up	PLEKHO1
7984217a	1.96E-05	1.12	up	1.34	down	1.12	up	1.16	down	PLEKHO2
8053602a	1.69E-05	1.19	down	1.01	down	1.32	down	1.02	down	PLGLB2;PLGLB1;PLGLA
8112202a	1.85E-11	2.39	down	1.52	up	1.62	down	1.04	down	PLK2
8097356a	1.59E-05	1.11	down	1.42	down	1.04	down	1.06	down	PLK4
8167449a	2.49E-06	1.06	up	1.31	down	1.25	up	1.12	down	PLP2
8083146a	8.34E-06	1.07	down	1.63	up	1.11	down	1.34	down	PLS1
8169473a	7.65E-07	1.07	up	1.66	down	1.08	up	1.06	up	PLS3
8091327a	1.07E-05	1.49	up	1.01	up	1.59	up	1.55	down	PLSCR1
8091306a	1.12E-09	2.45	up	1.12	down	2.87	up	3.41	down	PLSCR4
7923991a	1.37E-05	1.70	down	1.41	down	1.85	down	1.22	up	PLXNA2
8170921a	7.51E-08	1.27	down	1.78	down	1.53	down	1.40	up	PLXNA3
8067233a	2.68E-08	1.47	down	4.22	down	1.08	up	1.68	up	PMEP1
7993148a	1.22E-05	1.44	up	1.62	up	1.02	down	1.22	down	PMM2
8012896a	4.23E-05	1.38	up	1.91	up	1.08	up	1.34	down	PMP22
7920567a	9.07E-05	1.15	up	1.32	down	1.04	down	1.18	up	PMVK
8048257a	2.73E-09	1.45	up	1.07	up	1.52	up	1.22	down	PNKD
7974066a	1.41E-06	1.21	up	1.16	up	1.30	up	1.19	down	PNN
8073633a	1.84E-06	1.40	up	1.13	up	1.02	down	2.30	up	PNPLA3
8052331a	3.71E-06	1.17	up	1.20	up	1.12	up	1.33	down	PNPT1
7901535a	6.18E-05	1.05	down	1.25	up	1.25	down	1.58	down	PODN

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8082368a	2.95E-07	1.03	up	1.55	up	1.39	up	2.00	down	PODXL2
8070876a	3.39E-05	1.15	up	1.23	up	1.12	up	1.22	down	POFUT2
8166525a	6.83E-08	1.15	down	1.55	up	1.20	down	1.20	down	POLA1
8030641a	5.65E-05	1.21	down	1.05	up	1.34	down	1.07	up	POLD1
7949746a	9.94E-08	1.15	up	1.28	down	1.14	up	1.54	up	POLD4
8013588a	1.07E-06	1.20	up	1.18	up	1.17	up	1.25	down	POLDIP2
8163525a	5.46E-05	1.08	up	1.32	up	1.07	up	1.42	down	POLE3
8042953a	1.32E-07	1.27	up	1.06	down	1.38	up	1.23	up	POLE4
7991258a	2.32E-05	1.16	up	1.34	down	1.19	up	1.15	down	POLG
8098958a	1.79E-05	1.28	up	1.23	down	1.16	up	1.22	down	POLN
8053496a	4.04E-05	1.18	up	1.28	up	1.12	up	1.13	down	POLR1A
8044473a	2.11E-05	1.19	up	1.33	up	1.03	down	1.25	down	POLR1B
8004431a	3.41E-05	1.35	up	1.15	up	1.03	up	1.21	down	POLR2A
8055089a	4.75E-06	1.11	up	1.32	up	1.10	up	1.27	down	POLR2D
8141791a	4.17E-05	1.33	up	1.08	down	1.62	up	1.09	down	POLR2J2-4
7993973a	3.97E-07	1.32	up	1.27	up	1.11	up	1.27	down	POLR3E
8061171a	3.26E-07	1.87	down	1.08	down	1.89	down	1.09	down	POLR3F;C20orf12
8076344a	9.12E-07	1.22	up	1.49	up	1.02	down	1.34	down	POLR3H
8032057a	1.57E-05	1.04	up	1.37	up	1.06	up	1.18	down	POLRMT
8133275a	8.27E-06	1.10	up	1.20	up	1.06	up	1.20	down	POM121;POM121C;PMS2L3
8071877a	3.22E-05	1.10	down	1.33	up	1.12	down	1.11	up	POM121L9P
8158866a	1.16E-06	1.16	down	1.21	up	1.05	up	1.80	down	POMT1
8147548a	7.07E-05	1.29	down	1.33	up	1.19	down	1.30	down	POP1
8089785a	3.07E-07	1.15	up	1.22	down	1.18	up	1.24	up	POPDC2
8133670a	5.71E-07	1.27	up	1.17	up	1.37	up	1.29	down	POR
8167287a	2.76E-05	1.11	down	1.10	down	1.14	down	1.92	up	PORCN
7971077a	1.30E-07	3.27	up	2.63	down	6.16	up	1.42	up	POSTN
8055153a	7.31E-05	1.11	down	1.21	up	1.01	down	1.05	down	POTEE-H
8112107a	7.88E-10	1.46	down	1.39	down	1.09	down	1.83	up	PPAP2A;SKIV2L2
7930980a	2.51E-09	2.18	down	3.09	down	2.17	down	6.46	up	PPAPDC1A
8118945a	3.15E-05	1.32	up	1.04	down	1.40	up	1.20	up	PPARD
8008768a	4.71E-05	1.01	up	1.04	up	1.46	up	1.87	down	PPM1E
7964646a	2.73E-05	1.65	up	1.08	down	2.43	up	1.01	down	PPM1H
7942503a	3.04E-08	1.21	down	1.86	up	1.19	down	1.98	down	PPME1
7906688a	9.96E-05	1.15	down	1.44	down	1.21	down	1.23	up	PPOX
8177744a	1.68E-06	1.28	up	1.07	up	1.47	up	1.06	up	PPP1R11
8037563a	1.77E-09	1.15	down	1.49	down	1.06	down	1.35	up	PPP1R13L
8092959a	2.50E-08	1.24	up	1.27	up	1.34	up	1.35	down	PPP1R2
8180076a	6.20E-06	1.07	up	1.21	up	1.15	up	1.18	down	PPP1R2P1
7934997a	2.25E-09	1.14	up	1.36	down	1.06	down	3.67	up	PPP1R3C
7977955a	1.18E-06	1.31	up	1.14	down	1.11	up	1.14	up	PPP1R3E;HOMEZ
8049784a	3.00E-05	1.31	up	1.03	down	1.34	up	1.03	down	PPP1R7;PASK
8134351a	5.57E-08	1.77	up	1.60	up	1.15	down	3.06	down	PPP1R9A
8016628a	1.01E-06	1.19	up	1.22	down	1.12	up	1.11	up	PPP1R9B
8150126a	3.75E-06	1.06	up	1.53	down	1.14	down	1.28	up	PPP2CB
7951614a	4.48E-07	1.12	down	1.19	up	1.13	down	1.40	down	PPP2R1B
8114900a	1.20E-06	1.25	up	4.72	up	1.73	down	1.71	down	PPP2R2B
8176986a	1.99E-08	1.23	up	1.04	up	1.74	up	1.26	down	PPP2R3B
8158523a	6.98E-06	1.10	down	1.20	up	1.11	up	1.39	down	PPP2R4
7994756a	1.45E-06	1.35	up	1.10	up	1.20	up	1.02	up	PPP4C
7976451a	2.57E-05	1.05	down	1.09	up	1.07	up	1.93	down	PPP4R4
8029814a	2.25E-06	1.13	down	1.05	down	1.33	down	1.09	up	PPP5C
8164155a	1.24E-05	1.02	down	1.28	up	1.08	up	1.31	down	PPP6C

Transcript ID	Arsenic			Chromium		Nickel		Vanadium		Gene Symbol
	p-value	Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8105633a	8.12E-09	1.72	down	1.17	down	1.25	down	1.24	up	PPWD1
7927280a	1.98E-05	1.19	up	1.39	down	1.00	down	1.16	up	PPYR1
8167412a	4.51E-06	1.18	up	1.07	down	1.11	up	1.15	down	PQBP1
8023914a	6.38E-05	1.07	up	1.23	up	1.15	up	1.19	down	PQLC1
7898556a	1.55E-05	1.08	up	1.47	up	1.01	down	1.05	up	PQLC2
8040278a	9.58E-10	2.21	up	1.41	down	2.49	up	1.20	up	PQLC3
8149250a	2.39E-07	1.00	up	1.51	down	1.21	down	1.67	up	PRAGMIN
7898070a	4.71E-05	1.24	up	1.06	up	1.30	up	1.14	down	PRDM2
8096032a	4.69E-06	1.08	up	1.33	down	1.22	down	1.50	up	PRDM8
8166455a	1.09E-05	1.33	up	1.20	up	1.04	up	1.25	down	PRDX4
7907439a	7.62E-07	1.01	up	1.27	up	1.02	up	1.11	down	PRDX6
7962375a	5.39E-09	2.90	down	2.60	down	5.66	down	5.76	up	PRICKLE1
8088550a	1.59E-10	1.00	down	2.18	down	1.47	down	3.14	up	PRICKLE2
8172561a	1.49E-05	1.53	up	1.03	up	1.19	up	1.15	down	PRICKLE3
7919305a	3.18E-08	1.32	down	1.47	down	1.55	down	1.65	up	PRKAB2
8143961a	4.61E-09	1.38	down	1.55	down	1.35	down	1.60	up	PRKAG2
8137675a	1.37E-09	1.16	up	1.75	up	1.23	up	1.34	down	PRKAR1B
8009301a	2.38E-05	1.05	up	1.01	up	1.13	down	1.78	up	PRKCA
8041763a	3.91E-08	1.42	up	1.58	down	1.17	up	1.29	up	PRKCE
8051547a	1.19E-06	1.30	up	1.46	down	1.08	up	1.23	up	PRKD3
8171182a	7.07E-11	1.62	up	2.19	up	2.53	up	3.76	down	PRKX
8176460a	4.54E-07	1.26	down	1.72	down	1.48	up	2.21	up	PRKY
7938890a	2.08E-06	1.29	up	1.43	up	1.01	up	1.26	down	PRMT3
8060758a	4.93E-06	1.53	down	1.18	up	1.58	down	1.13	up	PRNP
7992678a	1.27E-05	1.10	down	1.05	up	1.19	down	1.18	up	PRO0461
7924817a	4.58E-05	1.02	up	1.80	down	1.15	down	1.22	up	PRO2012
8062108a	6.59E-06	1.05	down	1.33	down	1.36	down	1.68	up	PROCR
8145854a	4.00E-06	1.23	up	1.16	up	1.16	up	1.21	down	PROSC
7948476a	5.87E-05	1.08	down	1.25	up	1.16	down	1.20	down	PRPF19
7903519a	8.58E-05	1.06	down	1.09	up	1.21	down	1.12	down	PRPF38B
8157283a	2.32E-06	1.07	up	1.42	up	1.02	up	1.37	down	PRPF4
8169240a	4.41E-05	1.06	up	1.14	down	1.46	down	1.18	up	PRPS1
8166049a	7.16E-11	1.63	up	1.86	up	1.63	up	1.65	down	PRPS2
8036808a	3.65E-07	1.31	up	1.25	up	1.28	up	1.03	down	PRR13;PCBP2
7994858a	3.70E-06	1.44	up	1.09	down	1.25	up	1.11	up	PRR14
8107563a	2.37E-05	1.57	up	1.63	down	1.72	up	1.74	up	PRR16
8117922a	1.05E-06	1.28	up	1.14	down	1.11	up	1.12	up	PRR3
7939383a	1.19E-05	1.03	up	1.40	down	1.32	down	1.29	up	PRR5L
8166705a	7.41E-10	1.47	down	2.12	down	2.87	down	1.25	up	PRRG1;TSPAN7
7939150a	3.38E-05	1.24	up	1.12	up	2.25	up	1.70	down	PRRG4
8102468a	6.90E-07	3.89	up	2.43	up	1.29	up	1.20	up	PRSS12
8069582a	1.31E-08	1.66	down	1.01	up	1.94	down	18.90	up	PRSS7
7989073a	1.64E-08	1.30	up	1.38	up	1.75	up	2.59	down	PRTG
8156043a	5.80E-06	1.34	down	1.44	up	1.25	down	1.53	down	PSAT1
8149551a	4.37E-07	1.79	down	1.14	up	3.00	down	2.17	up	PSD3
8149555a	2.28E-05	1.34	down	1.05	down	2.12	down	2.08	up	PSD3
8037240a	8.65E-07	1.22	down	5.66	up	1.05	down	1.50	down	PSG1
8037267a	1.35E-05	1.49	up	10.91	up	1.12	down	3.75	down	PSG2
8037231a	1.31E-06	1.19	down	7.96	up	1.52	down	1.89	down	PSG3
8037272a	1.81E-06	1.01	down	7.70	up	1.15	down	1.35	down	PSG3-5;PSG7;PSG8;PSG1
8037246a	2.92E-05	1.03	up	1.69	up	1.14	down	1.40	down	PSG6
8037251a	1.57E-05	1.16	up	5.19	up	1.13	up	1.48	down	PSG3-9;PSG1
8002133a	2.17E-08	1.16	up	1.58	down	1.16	up	1.12	up	PSMB10;CTRL

Transcript ID	Arsenic			Chromium		Nickel		Vanadium		Gene Symbol
	p-value	Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8006812a	1.91E-06	1.03	up	1.14	up	1.06	up	1.54	down	PSMB3
8003953a	2.20E-05	1.13	up	1.17	up	1.15	up	1.17	down	PSMB6
8180049a	9.17E-07	1.34	up	1.52	down	1.62	up	1.12	up	PSMB8
7947867a	5.52E-07	1.22	up	1.17	up	1.22	up	1.16	down	PSMC3
8015642a	4.51E-06	1.09	down	1.44	up	1.05	up	1.63	down	PSMC3IP;MLX
8006392a	3.37E-08	1.20	up	1.27	up	1.19	up	1.56	down	PSMD11
8006984a	7.93E-06	1.04	up	1.22	up	1.09	down	1.51	down	PSMD3
8163795a	2.31E-05	1.18	down	1.33	up	1.08	down	1.36	down	PSMD5
7997230a	2.43E-05	1.12	up	1.22	down	1.14	up	1.08	up	PSMD7
7978123a	6.48E-05	1.15	up	1.26	down	1.16	up	1.17	up	PSME2
8007397a	2.67E-07	1.06	down	1.48	up	1.12	down	1.61	down	PSME3
8052149a	3.78E-06	1.28	up	1.33	up	1.04	up	1.08	down	PSME4
8060379a	1.53E-05	1.54	down	1.05	up	1.55	down	1.06	down	PSMF1
8070330a	4.45E-06	1.01	down	1.28	up	1.18	down	1.32	down	PSMG1
8116655a	1.01E-06	1.24	up	1.11	down	1.21	up	1.13	down	PSMG4
8161632a	8.14E-05	1.14	down	1.06	down	1.07	up	1.72	down	PTAR1
8106107a	8.23E-06	1.12	up	1.12	down	1.19	up	1.87	up	PTCD2
7915612a	1.45E-05	1.38	down	1.53	up	1.49	down	1.13	up	PTCH2
7928959a	7.80E-05	1.01	up	1.20	down	1.04	down	1.23	up	PTEN
7926356a	2.57E-06	1.41	up	2.02	up	1.13	up	3.44	down	PTER;C1QL3
8105067a	9.24E-06	1.17	up	1.10	up	2.12	up	1.36	up	PTGER4
8164362a	1.37E-05	1.09	down	1.30	up	1.01	down	1.15	down	PTGES2
7902527a	2.21E-05	1.92	up	1.59	down	1.25	up	2.44	up	PTGFR
8079433a	3.48E-06	1.31	down	1.11	up	1.36	down	1.03	up	PTH1R
7962000a	1.01E-05	1.21	down	1.68	down	1.05	down	1.31	up	PTHLH
8153223a	1.33E-07	1.09	down	1.26	down	1.11	down	1.34	up	PTK2
8145490a	7.64E-06	1.48	up	1.41	down	1.20	up	1.20	up	PTK2B
7932420a	4.27E-08	1.04	down	1.99	down	1.07	down	1.62	up	PTPLA
8160346a	4.48E-07	1.09	down	1.40	down	11.04	down	1.86	down	PTPLAD2
7939818a	2.85E-10	1.40	up	1.54	up	1.45	up	1.36	down	PTPMT1
8045182a	6.01E-09	1.48	up	1.18	down	1.52	up	1.02	up	PTPN18
8022393a	5.30E-07	1.13	up	1.30	up	1.02	up	1.68	down	PTPN2
7980616a	5.84E-08	1.11	down	1.78	down	1.37	down	1.67	up	PTPN21
7918657a	7.36E-08	1.12	up	1.05	down	1.12	down	2.82	up	PTPN22
8163149a	5.42E-05	1.15	down	1.24	down	1.15	up	1.88	down	PTPN3
8044849a	1.03E-06	1.13	up	1.29	down	1.00	up	1.43	up	PTPN4
7953569a	5.13E-06	1.24	up	1.05	down	1.71	up	1.00	up	PTPN6
8060539a	2.84E-06	1.61	down	1.22	down	1.64	down	1.21	up	PTPRA;VPS16
7964872a	1.68E-05	2.34	down	1.50	down	2.64	down	1.32	up	PTPRB
7931353a	1.88E-08	1.09	up	1.85	down	1.04	up	1.73	up	PTPRE
8080810a	4.89E-08	1.96	down	1.71	down	2.91	down	1.95	up	PTPRG
8032926a	5.39E-06	1.24	down	1.47	down	1.03	up	2.43	up	PTPRS
8015635a	3.19E-07	1.02	down	1.33	up	1.10	down	1.79	down	PTRF
8164235a	8.02E-05	1.16	down	1.29	up	1.03	up	1.31	down	PTRH1;TTC16;C9orf117
7943882a	2.18E-06	1.34	down	1.17	up	1.26	down	1.31	down	PTS
8052418a	2.32E-05	1.24	up	1.27	up	1.21	up	1.32	down	PUS10
8029437a	2.49E-06	1.18	down	1.39	down	1.44	down	1.32	up	PVR
7952274a	1.50E-05	1.16	down	1.33	up	1.21	down	1.04	down	PVRL1
8069003a	8.06E-06	1.19	up	1.55	up	1.04	up	1.38	down	PWP2
7967789a	2.61E-05	1.15	down	1.17	down	1.05	up	1.17	up	PXMP2
8151436a	8.92E-08	1.11	down	1.61	down	1.11	up	1.08	up	PXMP3
8065719a	4.32E-05	1.03	up	1.23	down	1.27	up	1.19	up	PXMP4
8001030a	2.74E-06	1.66	up	1.32	down	1.32	down	2.29	down	PYCARD

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8061447a	1.23E-07	1.75	down	1.41	up	1.50	down	1.02	up	PYGB
7979085a	7.22E-06	1.33	up	1.69	up	1.21	up	1.09	down	PYGL
7989069a	7.53E-07	1.09	down	1.30	up	1.46	up	1.90	down	PYGO1
8005833a	4.07E-05	1.06	up	1.22	up	1.18	up	1.08	down	PYY2
7939158a	7.75E-06	1.13	up	1.24	up	1.10	up	1.27	down	QSER1
7951873a	1.14E-07	1.09	down	1.44	up	1.29	down	1.15	down	QSK
8165094a	9.23E-08	1.20	down	1.83	up	1.22	down	1.48	down	QSOX2
8045425a	2.23E-06	1.31	up	1.07	up	1.22	up	1.15	down	R3HDM1
7984289a	7.51E-05	1.04	down	1.33	down	1.05	down	1.05	down	RAB11A
8150225a	1.88E-05	1.03	down	1.52	down	1.15	up	1.18	up	RAB11FIP1
8006298a	3.22E-05	1.13	up	1.12	up	1.44	up	1.06	up	RAB11FIP4
7920422a	7.57E-05	1.29	up	1.35	down	1.08	up	1.19	up	RAB13
7963986a	9.57E-05	1.13	up	1.41	down	1.13	down	1.36	up	RAB13
8063607a	8.10E-06	1.09	up	1.17	down	1.02	up	1.26	up	RAB22A
7989023a	2.15E-08	1.00	down	2.62	down	1.07	up	1.10	up	RAB27A
8021301a	1.30E-06	1.71	up	1.11	down	1.59	up	3.25	up	RAB27B
7977736a	1.84E-06	1.35	up	1.33	down	1.32	up	1.09	up	RAB2B
8020110a	5.87E-06	1.02	down	1.61	down	1.21	up	1.28	up	RAB31
8013753a	2.88E-06	1.22	up	1.08	up	1.21	up	1.41	down	RAB34
7966929a	1.02E-05	1.19	up	1.16	up	1.24	up	1.14	down	RAB35
8071676a	7.12E-05	1.14	down	1.41	up	1.04	up	1.15	down	RAB36
7950899a	2.28E-05	1.83	up	2.08	up	1.42	down	1.79	down	RAB38
8176230a	7.62E-05	1.26	down	1.15	up	1.26	down	1.12	down	RAB39B
8034202a	2.19E-06	1.33	up	1.09	up	1.55	up	1.21	down	RAB3D
7957072a	9.93E-05	1.08	down	1.09	up	1.18	down	1.77	down	RAB3IP
7991917a	2.31E-05	1.11	up	1.03	down	1.10	down	1.42	up	RAB40C
8001147a	8.44E-06	1.63	up	1.06	up	1.58	up	1.07	down	RAB43;ISY1
8015545a	5.30E-07	1.07	up	1.40	up	1.00	down	1.38	down	RAB5C
8174271a	2.40E-05	1.24	down	1.62	down	1.78	down	1.29	up	RAB9B
8000616a	4.39E-07	1.22	up	1.14	up	1.16	up	1.12	down	RABEP2
8157843a	8.41E-07	1.04	up	1.46	up	1.05	up	1.42	down	RABEPK
8157700a	8.26E-05	1.06	down	1.30	up	1.04	down	1.40	down	RABGAP1
7907492a	6.62E-05	1.37	down	1.44	down	1.33	down	1.05	up	RABGAP1L
8177478a	4.27E-06	1.02	down	1.52	down	1.21	up	1.63	up	RAD17
8152477a	1.57E-05	1.07	up	1.20	down	1.20	up	1.07	down	RAD21
8060400a	8.62E-07	1.08	down	1.12	up	1.07	down	1.17	up	RAD21L1;SNPH
8157125a	6.49E-06	1.03	up	1.27	up	1.02	up	1.30	down	RAD23B
7982792a	8.56E-05	1.02	down	1.54	down	1.07	up	1.01	down	RAD51
8014199a	1.41E-05	1.13	up	1.17	up	1.16	up	1.44	down	RAD51L3
7905938a	6.66E-05	1.38	up	1.32	down	1.13	up	1.10	up	RAG1AP1
8132406a	3.01E-05	1.01	down	1.09	down	1.23	down	1.47	up	RALA
8044919a	6.73E-06	1.26	up	1.11	down	1.12	up	1.29	up	RALB
8157949a	3.18E-06	1.05	up	1.13	up	1.44	up	1.58	down	RALGPS1
7907657a	4.70E-05	1.18	down	1.73	down	1.37	down	1.47	up	RALGPS2
8007348a	1.31E-05	1.07	down	1.07	up	1.46	down	1.36	down	RAMP2
8160016a	3.55E-06	1.19	down	1.11	up	1.51	down	1.15	up	RANBP6
8123989a	5.44E-06	1.31	up	1.09	up	1.32	up	1.15	up	RANBP9
7903988a	1.64E-06	1.06	down	1.07	down	1.42	down	1.12	up	RAP1A
8096538a	3.69E-08	1.39	down	1.69	down	1.91	down	1.45	up	RAP1GDS1
8175169a	8.39E-06	1.01	up	1.38	down	1.08	down	1.10	down	RAP2C
8098121a	5.82E-07	1.09	down	1.87	down	1.35	down	1.17	up	RAPGEF2
8007043a	7.04E-07	1.01	up	1.21	up	1.17	up	1.47	down	RAPGEFL1
8078286a	7.18E-06	2.04	up	1.07	down	1.22	up	8.77	up	RARB;LOC100130354

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
7963631a	3.98E-07	1.08	up	1.60	down	1.04	up	1.42	up	RARG
7940775a	2.70E-07	1.79	up	1.45	down	2.35	up	1.55	down	RARRES3
8106784a	4.27E-08	1.15	down	1.92	down	1.02	up	1.87	up	RASA1
7907611a	6.75E-10	1.16	down	1.43	down	1.38	down	1.63	up	RASAL2
8161945a	3.83E-05	2.04	down	1.45	up	1.33	down	1.31	down	RASEF
7987405a	5.73E-05	1.37	up	2.03	up	1.52	up	1.73	down	RASGRP1
8006562a	8.90E-05	1.20	up	1.26	up	1.09	up	1.17	down	RASL10B
8033969a	1.29E-05	1.04	up	1.34	up	1.04	up	1.10	down	RAVER1
7902023a	3.57E-10	1.95	up	2.23	up	2.27	up	6.36	down	RAVER2
8150757a	3.43E-07	1.08	down	1.27	up	1.08	up	1.85	down	RB1CC1
7994161a	6.23E-06	1.25	up	1.22	up	1.13	up	1.21	down	RBBP6
8171516a	6.12E-05	1.04	up	1.25	up	1.03	down	1.05	down	RBBP7
8065230a	7.31E-06	1.72	down	1.08	down	1.74	down	1.30	up	RBBP9
7995631a	1.29E-06	1.12	down	1.57	down	1.06	up	1.32	up	RBL2
7941694a	5.30E-05	1.11	up	1.23	up	1.04	down	1.13	down	RBM14;RBM4
8117045a	5.38E-07	1.27	up	1.24	down	1.84	up	1.19	down	RBM24
8108927a	6.46E-05	1.03	down	1.24	up	1.04	down	1.36	down	RBM27
8142774a	3.81E-05	1.14	up	1.34	up	1.09	down	1.17	down	RBM28
8167234a	4.18E-05	1.14	up	1.35	down	1.02	up	1.20	down	RBM3
8046628a	6.94E-06	1.18	up	1.17	down	1.22	up	1.09	down	RBM45
8079869a	1.62E-05	1.24	down	1.26	up	1.26	down	1.18	down	RBM5;RBM6
7944006a	4.83E-06	1.37	down	1.07	up	1.39	down	1.18	down	RBM7
7956261a	7.65E-07	1.11	down	1.46	down	1.02	down	1.70	up	RBMS2
8078330a	8.24E-09	2.11	down	2.83	down	2.34	down	1.48	up	RBMS3
8169920a	6.05E-08	1.19	up	1.19	down	1.06	up	1.21	down	RBMX2
7960764a	7.85E-05	1.16	down	1.14	up	1.04	up	1.11	down	RBP5
7897522a	2.07E-09	1.23	up	3.87	up	1.26	down	7.60	down	RBP7
8094460a	7.73E-08	1.12	down	1.14	down	1.50	down	1.35	up	RBPJ
8155458a	9.81E-06	1.23	down	1.26	down	1.49	down	1.17	up	RBPJ
7898957a	4.36E-06	1.02	up	1.12	down	1.02	down	1.46	up	RCAN3
7971573a	9.21E-09	1.31	up	1.56	down	1.14	up	1.31	up	RCBTB2
7899462a	7.88E-10	1.12	up	1.55	up	1.03	up	1.32	down	RCC1;SNHG3-RCC1
8101013a	5.74E-05	1.05	down	1.22	down	1.35	down	1.34	up	RCHY1
7939120a	3.41E-05	1.08	up	1.39	up	1.03	down	1.12	down	RCN1;LOC100190939
8179913a	8.71E-09	1.28	up	1.04	down	1.46	up	1.01	up	RDBP
8050474a	1.28E-05	1.36	up	1.03	up	1.01	up	1.04	down	RDH14;NT5C1B
8014326a	2.31E-05	1.11	up	1.03	down	1.09	up	1.67	down	RDM1
8155169a	6.97E-06	1.00	down	1.28	down	1.73	down	1.15	up	RECK
8099797a	4.44E-06	1.11	up	1.29	down	1.01	up	1.29	up	RELL1;C4orf19
8141950a	1.65E-06	1.00	up	1.09	up	1.01	up	1.40	down	RELN
8137225a	1.82E-06	1.01	up	1.45	up	1.09	up	1.25	down	REPIN1
8166243a	6.06E-06	2.03	up	1.34	up	2.51	up	1.36	down	REPS2
7897078a	9.08E-09	1.20	up	1.12	up	1.13	up	1.12	down	RER1
8053406a	3.79E-05	1.21	up	1.27	down	1.10	up	1.45	up	RETSAT
7944011a	4.74E-06	1.16	down	1.23	up	1.35	down	1.23	down	REXO2
8164907a	2.11E-06	1.00	down	1.50	up	1.01	down	1.46	down	REXO4
7959052a	1.59E-05	1.05	up	1.42	up	1.21	up	1.01	down	RFC5
8106978a	3.04E-07	1.01	down	1.36	down	1.40	up	1.87	up	RFESD;SPATA9
8161857a	6.88E-06	1.09	up	1.33	up	1.14	up	1.39	down	RFK
8002762a	7.83E-05	1.07	up	1.23	down	1.23	up	1.20	up	RFWD3
7919971a	1.60E-06	1.31	down	1.67	down	1.38	down	1.23	up	RFX5
7989132a	5.63E-05	1.12	up	1.75	down	1.06	up	1.03	down	RFX7
8101916a	4.79E-05	1.13	up	1.03	down	1.03	up	1.70	down	RG9MTD2

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
7908125a	1.97E-08	1.38	down	1.55	down	2.40	down	1.81	up	RGL1
8180144a	1.38E-09	1.56	up	1.34	down	1.80	up	1.50	up	RGL2
8106210a	1.35E-06	1.12	down	1.26	down	1.29	up	1.70	up	RGNEF
8093764a	7.77E-07	1.09	down	1.45	down	1.02	up	1.09	up	RGS12
7925457a	2.78E-05	1.21	down	2.50	up	1.84	up	1.48	down	RGS7
8009277a	1.54E-08	1.10	up	1.35	down	2.61	up	1.20	down	RGS9
7998136a	4.52E-08	1.18	down	1.39	down	1.32	down	1.56	up	RHBDF1
8018731a	9.08E-05	1.31	up	1.07	up	1.46	up	1.07	up	RHBDF2
7963009a	3.76E-07	1.04	up	1.29	up	1.77	up	2.33	down	RHEBL1
8040473a	4.19E-09	1.10	down	2.39	down	1.07	down	1.50	up	RHOB
7933821a	6.28E-05	1.40	up	1.20	down	2.18	down	1.71	down	RHOBTB1
8106986a	1.71E-05	1.07	down	1.91	down	1.56	up	1.65	up	RHOBTB3
7918593a	1.24E-05	1.14	up	1.06	down	1.06	up	1.21	up	RHOC
8006345a	4.43E-07	1.18	up	1.12	up	1.24	up	1.62	down	RHOT1
8111698a	3.95E-06	1.32	up	1.47	up	1.52	up	1.46	down	RICTOR
8061247a	2.52E-05	1.19	down	1.33	up	1.08	down	1.19	up	RIN2
7976292a	4.89E-06	1.36	up	1.11	down	1.28	up	1.33	up	RIN3
8178244a	2.11E-08	1.37	up	1.24	down	1.41	up	1.31	up	RING1
8113286a	6.87E-05	1.05	up	1.48	down	1.04	down	1.57	up	RIOK2
8147206a	8.53E-06	1.37	up	1.10	up	1.56	up	1.11	down	RIPK2
8070489a	3.90E-06	1.08	up	2.17	down	1.85	up	2.34	up	RIPK4
7977596a	1.87E-05	1.15	up	1.12	down	1.00	up	1.08	down	RNASE9
8050079a	2.57E-06	1.28	up	1.16	down	1.21	up	1.61	up	RNASEH1
7969179a	1.76E-05	1.16	down	1.23	down	1.47	down	1.28	up	RNASEH2B
8004237a	5.07E-05	1.17	up	1.06	up	1.10	up	1.10	down	RNASEK
8130768a	1.58E-06	1.06	up	1.38	up	1.53	up	1.42	down	RNAS22;LOC100131869
7904830a	2.69E-07	1.14	down	1.71	down	1.43	down	1.40	up	RNF115
8020806a	2.24E-07	1.16	up	1.50	up	1.09	up	1.35	down	RNF125
8083310a	4.20E-05	1.03	down	1.19	up	1.15	up	1.55	down	RNF13
8006229a	3.43E-05	1.38	up	1.16	up	1.43	up	1.12	down	RNF135
8054329a	2.51E-05	1.14	up	1.38	up	1.01	down	1.02	down	RNF149
8102938a	6.28E-05	2.14	up	1.86	down	1.87	up	1.61	down	RNF150
8003348a	2.01E-09	1.52	up	1.20	up	1.73	up	1.23	down	RNF166
8105585a	8.00E-05	1.04	up	1.08	up	1.08	down	2.55	down	RNF180
8043209a	3.30E-06	1.32	up	1.04	up	1.23	up	1.04	down	RNF181
8152041a	3.52E-05	1.03	down	1.31	down	1.11	up	1.11	down	RNF19A
8156945a	9.08E-05	1.18	up	1.44	up	1.06	up	1.57	down	RNF20
8010454a	3.23E-07	1.34	up	1.25	down	1.74	up	1.34	down	RNF213;LOC100294362
7944096a	3.91E-06	1.08	down	1.33	up	1.19	down	1.14	down	RNF214
7900979a	3.34E-05	1.20	down	1.01	up	1.21	down	1.13	down	RNF220
8058985a	3.39E-06	1.49	up	1.01	up	1.24	up	1.01	up	RNF25
7944510a	8.48E-08	1.03	up	1.35	up	1.18	up	1.36	down	RNF26
8137566a	2.72E-05	1.28	down	1.09	up	1.13	down	1.14	up	RNF32
7994939a	3.34E-07	1.65	up	1.25	up	1.31	up	1.06	up	RNF40
8016994a	2.05E-05	1.13	down	1.12	up	1.07	down	1.27	up	RNF43
8083119a	5.40E-05	1.19	up	1.05	up	1.16	up	1.24	down	RNF7
8119184a	2.94E-06	1.01	up	1.35	up	1.15	up	1.33	down	RNF8
8017162a	2.10E-06	1.26	up	1.19	down	1.40	up	1.13	down	RNFT1
7945420a	1.43E-05	1.31	up	1.11	up	1.24	up	1.07	up	RNH1;FLJ23519
7934885a	5.64E-10	1.40	down	1.43	down	3.48	down	1.37	up	RNLS
8003621a	8.53E-06	1.36	up	1.48	up	1.05	up	1.30	down	RNMTL1
8049689a	4.35E-06	1.30	up	1.18	down	1.53	up	1.06	up	RNPEPL1
7948894a	7.59E-07	1.18	up	3.21	down	1.00	up	2.14	up	RNU2-1;RNU2-2;WDR74

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
7967028a	1.85E-06	1.29	up	2.13	down	1.27	up	1.43	up	RNU4-2
7906072a	1.43E-06	1.21	up	1.36	down	1.11	down	1.03	down	ROBLD3
8050302a	7.92E-07	1.26	up	1.53	down	1.08	up	1.32	up	ROCK2
8163402a	8.45E-07	1.36	down	1.09	up	1.21	down	1.47	down	ROD1
7999217a	1.38E-06	1.09	up	1.41	down	1.11	down	1.45	up	ROGDI
7901969a	3.74E-08	1.37	down	1.09	down	1.95	down	1.56	up	ROR1
7898084a	4.00E-07	1.12	down	1.45	up	1.16	down	1.19	down	RP1-21O18.1
8064868a	8.71E-07	2.38	down	1.96	down	2.82	down	1.00	up	RP5-1022P6.2
8169949a	4.18E-06	1.20	down	8.20	up	1.71	down	1.49	down	RP6-213H19.1
8003679a	9.84E-05	1.08	up	1.19	up	1.04	up	1.16	down	RPA1
7987675a	6.20E-05	1.22	up	1.01	up	1.12	up	1.24	down	RPAP1
8172056a	7.31E-06	1.18	down	1.29	down	1.43	down	1.34	up	RPGR
8001423a	3.98E-05	1.25	down	1.03	down	1.27	down	1.37	up	RPGRIP1L
8043413a	1.36E-06	1.25	up	1.41	up	1.09	up	1.41	down	RPIA
8034416a	1.92E-07	1.24	down	1.46	down	1.34	down	1.19	up	RPL10
8170859a	8.15E-06	1.27	down	1.96	down	1.37	down	1.25	up	RPL10
8109821a	1.69E-07	1.10	down	1.15	down	1.13	down	1.07	up	RPL10;LOC100292492
8030351a	1.15E-06	1.09	down	1.07	up	1.11	down	1.03	down	RPL13A;RPL13AP5
7954063a	2.23E-05	1.19	down	1.14	up	1.26	down	1.04	down	RPL13AP20
7903582a	2.28E-05	1.09	down	1.11	up	1.05	down	1.19	down	RPL17
8131661a	3.88E-05	1.25	down	1.21	down	1.47	down	1.17	up	RPL21;RPL21P28
7924144a	1.31E-05	1.30	down	1.34	down	1.59	down	1.21	up	RPL21P28
8014749a	2.65E-05	1.10	down	1.28	up	1.23	down	1.54	down	RPL23;SNORA21
8007441a	1.73E-06	1.14	down	1.44	up	1.09	down	1.39	down	RPL27
7938286a	4.25E-05	1.21	up	1.64	up	1.23	up	1.24	down	RPL27A
8085407a	3.53E-05	1.38	down	1.01	down	1.48	down	1.11	down	RPL32;SNORA7A
8085026a	3.81E-05	1.07	down	1.16	up	1.01	down	1.12	down	RPL35A
7986765a	7.67E-05	1.08	down	1.09	up	1.11	down	1.03	up	RPL5
8109222a	3.06E-05	1.21	down	1.06	up	1.13	down	1.08	down	RPL7
8022972a	2.31E-05	1.35	down	1.26	up	1.17	down	1.27	down	RPL7A
7966996a	4.26E-05	1.12	down	1.05	down	1.07	down	1.03	up	RPLP0
8080773a	5.19E-05	1.12	down	1.10	down	1.30	down	1.25	up	RPP14
8117881a	1.73E-05	1.26	up	1.02	up	1.53	up	1.05	up	RPP21;TRIM39;TRIM39R
8179097a	4.05E-07	1.23	up	1.00	down	1.34	up	1.04	down	RPP21;TRIM39;TRIM39R
7929116a	4.79E-07	1.20	down	1.21	up	1.27	down	1.14	down	RPP30
8013348a	9.98E-05	1.04	down	1.00	up	1.18	down	1.15	up	RPS2
8172154a	3.72E-05	1.03	down	1.01	up	1.17	down	1.26	up	RPS2
7950626a	7.93E-05	1.09	down	1.07	up	1.20	down	1.47	down	RPS20P27
8112961a	1.68E-06	1.14	down	1.46	down	1.10	down	1.44	up	RPS23
7928551a	5.98E-07	1.44	down	1.57	up	1.50	down	1.31	down	RPS24
7952129a	1.95E-06	1.14	down	1.14	up	1.06	down	1.17	down	RPS25
7989493a	1.44E-05	1.07	down	1.41	down	1.04	down	1.50	up	RPS27L
7942824a	9.61E-08	1.22	up	1.03	down	1.24	up	1.03	up	RPS28
8131869a	4.19E-05	1.05	up	1.11	down	1.03	down	1.16	up	RPS2P32
7988031a	7.51E-05	1.28	down	1.20	down	1.15	down	1.23	up	RPS3A
8176375a	1.16E-09	3.28	down	28.36	down	2.95	up	78.72	up	RPS4Y1
8176730a	3.55E-09	1.03	down	1.96	down	1.35	up	1.84	up	RPS4Y2
8031933a	5.48E-05	1.19	down	1.17	up	1.40	down	1.06	down	RPS5
8130739a	1.19E-08	1.29	up	2.02	down	1.44	up	1.86	up	RPS6KA2
8171762a	1.30E-07	1.06	up	1.36	up	1.15	down	1.24	down	RPS6KA3
8008887a	1.50E-06	1.10	up	1.06	up	1.04	up	1.34	down	RPS6KB1
7901038a	5.51E-05	1.09	down	1.12	up	1.10	down	1.02	down	RPS8
8027354a	9.50E-07	1.38	up	1.96	up	1.76	up	3.24	down	RPSAP58

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
7982753a	3.31E-06	1.28	up	1.07	down	1.25	up	1.29	down	RPUSD2
7952549a	6.21E-07	1.04	up	1.05	down	1.13	up	1.58	down	RPUSD4
8048340a	6.64E-09	1.22	up	1.12	up	1.24	up	1.12	down	RQCD1
8128123a	1.59E-05	1.55	down	2.01	up	1.40	up	4.66	down	RRAGD
8038407a	2.71E-07	1.08	down	1.64	down	1.07	down	1.48	up	RRAS
7946697a	4.90E-05	1.02	down	1.10	up	1.22	down	1.27	up	RRAS2
8065136a	6.48E-07	1.33	down	1.09	up	1.58	down	1.20	up	RRBP1
8068938a	5.00E-06	1.14	up	1.36	up	1.01	down	1.28	down	RRP1
7935425a	6.33E-08	1.03	down	1.72	up	1.20	down	1.52	down	RRP12
8068902a	1.36E-07	1.02	up	1.50	up	1.07	down	1.36	down	RRP1B
7999520a	1.63E-07	1.32	up	1.69	up	1.04	up	1.30	down	RSL1D1
7995994a	2.82E-06	1.06	down	1.43	down	1.16	down	1.54	up	RSPRY1
7932311a	1.43E-06	1.22	down	1.42	down	1.25	down	1.34	up	RSU1
8053142a	1.27E-07	1.77	up	1.10	up	1.63	up	1.80	up	RTKN
8037594a	1.98E-05	1.33	up	1.22	down	1.03	up	1.06	up	RTN2
8128606a	1.72E-06	1.31	up	1.23	up	1.40	up	1.19	down	RTN4IP1
8095545a	3.56E-05	1.13	up	1.35	down	1.09	down	1.19	up	RUFY3
8007435a	5.43E-08	1.05	down	1.64	up	1.04	down	1.49	down	RUNDC1
7993274a	9.28E-05	1.57	up	1.30	up	1.15	up	1.05	down	RUNDC2A
7994576a	4.99E-05	1.67	up	1.07	up	1.21	up	1.05	down	RUNDC2A-C
8120043a	2.31E-05	1.20	down	1.50	up	1.19	down	1.55	up	RUNX2
7913805a	4.76E-06	1.18	up	1.49	up	1.33	up	1.32	down	RUNX3
8030113a	4.84E-06	1.14	down	1.26	up	1.22	down	1.13	down	RUVBL2
8178903a	2.05E-05	1.14	up	1.26	up	1.43	up	1.25	up	RXRБ
8180111a	5.49E-06	1.33	up	1.24	up	1.54	up	1.28	up	RXRБ
7920123a	8.28E-07	1.06	down	1.16	down	1.12	down	1.14	up	S100A10
7920128a	4.96E-09	1.11	down	1.56	down	1.26	down	1.56	up	S100A11
7920291a	4.19E-09	1.06	down	1.36	down	1.34	down	1.95	up	S100A16
7920285a	7.34E-05	1.19	down	1.20	down	1.25	down	1.54	up	S100A2
7920258a	2.25E-05	1.09	down	1.22	down	1.30	down	1.49	up	S100A6
7903393a	6.12E-10	1.63	down	1.48	up	2.23	down	2.22	up	S1PR1
8156278a	3.23E-07	1.44	up	1.54	down	1.54	up	1.10	up	S1PR3;C9orf47
8029884a	8.02E-05	1.16	down	1.09	up	1.11	down	1.04	up	SAE1
8024936a	5.45E-06	1.03	down	1.34	up	1.06	down	1.10	down	SAFB
8032974a	1.23E-06	1.01	down	1.28	up	1.14	down	1.05	down	SAFB2
8067792a	6.54E-05	1.11	down	1.27	up	1.14	down	1.09	down	SAMD10
8152506a	2.02E-07	1.32	down	6.51	up	1.03	up	2.06	down	SAMD12
7974425a	4.51E-05	1.05	up	1.38	down	1.36	down	1.29	up	SAMD4A
7928516a	4.13E-05	1.20	up	1.16	down	1.06	down	1.25	down	SAMD8
8109428a	9.65E-07	1.01	up	1.24	down	1.38	up	1.29	down	SAP30L
8005865a	2.89E-05	1.17	down	1.68	up	1.26	down	1.32	down	SARM1;TMEM199
7903619a	5.62E-06	1.02	down	1.18	up	1.13	down	1.06	up	SARS
8036656a	6.10E-07	1.11	down	1.34	up	1.13	down	1.32	down	SARS2;MRPS12
7941478a	3.52E-05	1.24	up	1.31	up	1.12	up	1.19	down	SART1
7966098a	8.70E-06	1.06	up	1.30	up	1.15	up	1.12	down	SART3
8012247a	3.68E-07	1.61	up	1.32	up	1.25	up	1.34	down	SAT2
8085716a	1.19E-09	1.18	down	4.55	up	1.18	down	1.49	up	SATB1
8058091a	1.48E-08	3.21	up	4.70	up	6.85	up	2.37	up	SATB2
7994345a	3.33E-05	1.11	up	1.03	up	1.26	up	1.00	down	SBK1
7967420a	4.37E-06	1.07	up	1.23	up	1.10	up	1.29	down	SBNO1
8098195a	2.71E-05	1.19	down	1.79	down	1.15	up	1.11	down	SC4MOL
8106479a	2.76E-08	1.23	down	1.31	down	1.06	down	1.94	up	SCAMP1
7990417a	7.67E-06	1.07	up	1.07	down	1.11	up	1.29	down	SCAMP2

Transcript ID	Arsenic			Chromium		Nickel		Vanadium		Gene Symbol
	p-value	Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
7984932a	7.15E-06	1.28	up	1.36	up	1.45	up	1.24	down	SCAMP5
7990582a	8.62E-05	1.14	down	1.63	down	1.03	down	1.28	down	SCAPER
7967544a	7.85E-08	1.06	up	2.05	up	1.49	up	1.31	down	SCARB1
8101158a	5.20E-05	1.01	up	1.31	down	1.01	up	1.14	up	SCARB2
8093576a	2.88E-05	1.11	down	1.58	down	1.34	down	1.24	up	SCARNA22
7929816a	6.03E-06	1.23	up	2.14	up	1.65	up	1.19	down	SCD
8101366a	4.01E-05	1.00	up	1.34	down	1.07	down	1.69	up	SCD5
8100347a	2.71E-05	1.05	down	1.51	down	1.38	down	1.28	up	SCFD2
7940626a	7.84E-07	1.22	down	1.00	down	1.15	down	1.04	up	SCGB2A1
7940636a	5.20E-05	1.06	up	1.19	down	1.02	up	1.09	up	SCGB2A2
8049582a	7.93E-05	1.12	up	1.17	up	1.32	up	1.17	down	SCLY;UBE2F
8166278a	4.87E-06	1.20	down	1.38	up	1.41	down	1.71	down	SCML1
8171561a	3.91E-07	1.02	down	1.67	up	1.35	down	1.66	down	SCML2
8012823a	3.56E-07	1.20	up	1.36	up	1.05	down	1.24	down	SCO1
7901513a	1.66E-07	1.08	up	1.45	up	1.11	down	1.28	down	SCP2
7941274a	3.77E-05	1.19	up	1.38	up	1.01	down	1.16	down	SCYL1;LTBP3
8147461a	3.14E-05	3.37	up	1.27	down	5.05	up	1.75	down	SDC2
7914282a	7.23E-06	1.21	up	1.41	down	1.02	up	1.27	up	SDC3
8066513a	4.00E-05	1.14	down	1.10	down	1.15	down	1.27	up	SDC4
8064418a	6.12E-05	1.13	down	1.25	up	1.07	down	1.02	down	SDCBP2
8105612a	3.74E-06	1.46	down	1.30	down	1.08	down	1.23	up	SDCCAG10
8165156a	4.27E-06	1.15	up	1.42	up	1.11	up	1.39	down	SDCCAG3
7899016a	2.18E-05	1.05	down	1.41	up	1.13	down	1.37	down	SDHD
8003060a	3.05E-07	2.65	down	1.11	down	5.42	down	2.61	down	SDR42E1
8010139a	9.69E-05	1.13	up	1.11	down	1.29	up	1.17	up	SEC14L1
8072328a	1.09E-05	1.03	up	1.65	down	1.25	up	1.17	up	SEC14L2;MTP18
8061186a	5.30E-08	1.69	down	1.08	up	1.84	down	1.02	up	SEC23B
8083826a	1.17E-07	1.12	up	1.32	up	1.11	up	1.71	down	SEC62
8020254a	1.21E-06	1.04	up	1.47	up	1.02	down	1.54	down	SEH1L
8040655a	2.43E-05	1.15	up	1.38	up	1.03	down	1.15	down	SELI;GPR113
8075462a	2.00E-07	1.18	up	1.57	up	1.01	down	1.53	down	SELM
8140668a	1.76E-07	1.26	up	6.51	down	2.02	up	9.04	up	SEMA3A
8079966a	1.95E-06	1.32	down	1.15	up	1.37	down	1.69	up	SEMA3B
8140534a	3.40E-07	1.11	down	1.88	down	1.30	down	1.59	up	SEMA3C
8079896a	8.91E-09	1.31	down	1.51	down	1.36	down	1.56	up	SEMA3F
8162236a	2.77E-09	1.57	up	2.89	up	2.05	up	3.60	down	SEMA4D
8032839a	3.70E-05	1.21	up	1.15	up	1.81	up	1.12	up	SEMA6B
7983527a	8.66E-06	1.74	up	1.23	down	1.96	up	1.24	down	SEMA6D
7990345a	2.39E-08	1.68	down	1.87	down	3.12	down	2.19	up	SEMA7A
8004485a	9.16E-05	1.15	up	1.14	up	1.04	up	1.24	down	SENP3
8000890a	1.39E-07	1.37	up	1.21	up	1.10	up	1.01	down	SEPHS2
8099696a	2.08E-06	1.33	up	1.45	down	1.12	up	1.04	down	SEPSECS
8054467a	7.04E-05	1.04	up	1.33	down	1.01	down	1.18	up	SEPT10
8095854a	1.42E-05	1.13	down	1.17	down	1.20	down	1.37	up	SEPT11
7917455a	2.73E-05	1.01	up	1.13	up	1.13	down	1.10	down	SEPT15
8017039a	9.16E-05	1.15	up	1.06	down	1.46	up	1.13	up	SEPT4
8071234a	1.22E-06	1.02	up	1.24	up	1.26	up	1.08	down	SEPT5;GP1BB
8174692a	2.68E-06	1.17	up	1.43	down	1.14	up	1.14	down	SEPT6
8010161a	6.51E-05	1.12	up	1.09	down	1.08	up	1.35	up	SEPT9
7916836a	1.81E-06	1.12	down	1.30	up	1.33	down	1.08	down	SERBP1
8177658a	5.19E-07	1.03	down	1.62	down	1.18	up	1.12	up	SERF1A;SERF1B
7983290a	8.30E-05	1.06	up	1.17	down	1.12	up	1.01	up	SERF2
7946933a	2.96E-05	1.12	up	1.12	up	1.26	up	1.24	down	SERGEF

Transcript ID	Arsenic			Chromium		Nickel		Vanadium		Gene Symbol
	p-value	Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
7968892a	7.11E-06	1.80	down	1.77	down	2.12	down	1.34	down	SERP2
7981068a	4.57E-07	1.29	up	2.06	down	1.24	down	1.09	up	SERPINA1
7976496a	1.45E-09	1.03	up	3.70	down	1.10	up	1.03	up	SERPINA3
8021635a	4.50E-06	1.18	down	1.35	up	3.99	down	6.46	up	SERPINB2;SERPINB10
8021623a	2.37E-07	1.24	down	2.35	down	2.73	down	4.65	up	SERPINB7
8123609a	3.05E-07	1.58	up	1.65	down	1.63	up	1.05	up	SERPINB9
8059376a	1.10E-08	3.33	up	1.05	down	3.72	up	2.00	up	SERPINE2
7942596a	4.63E-10	1.01	down	1.22	down	2.56	down	1.20	up	SERPINH1
8036908a	1.72E-05	1.04	up	1.52	down	1.01	down	1.22	up	SERTAD3
7909503a	5.23E-05	1.92	up	1.14	down	1.01	up	3.14	down	SERTAD4
8057394a	1.68E-08	2.55	up	1.18	down	2.04	up	1.07	up	SESTD1
8158372a	3.12E-06	1.07	down	1.21	up	1.02	up	1.21	down	SET
7917674a	1.61E-05	1.11	down	1.31	up	1.04	down	1.28	down	SET;LOC646817
8021047a	9.77E-08	1.21	up	1.64	down	1.17	up	1.96	up	SETBP1
7994985a	5.21E-05	1.25	up	1.25	up	1.07	up	1.06	up	SETD1A
7969114a	6.54E-07	1.01	down	1.58	down	1.22	down	1.33	up	SETDB2
8075343a	3.27E-06	1.04	up	1.32	up	1.06	down	1.06	down	SF3A1;CCDC157
7915130a	8.65E-08	1.03	down	1.27	up	1.19	down	1.00	up	SF3A3
8058024a	1.05E-06	1.16	up	1.06	up	1.10	up	1.07	down	SF3B1
8150428a	3.22E-05	1.28	down	1.58	up	1.62	up	6.53	up	SFRP1
7902269a	7.41E-08	1.06	up	1.17	up	1.13	down	1.19	down	SFRS11
8105714a	6.64E-06	1.32	down	1.17	down	1.14	down	1.21	up	SFRS12
8112337a	3.04E-08	1.63	down	1.21	down	1.21	down	1.53	up	SFRS12IP1
8069910a	6.06E-05	1.08	up	1.28	up	1.05	down	1.17	down	SFRS15
8176342a	3.47E-07	1.14	up	1.10	up	1.38	up	1.24	down	SFRS17A;ASMT
7943288a	4.54E-07	1.13	down	1.34	up	1.29	down	1.54	down	SFRS2B
7914235a	2.70E-07	1.13	up	1.32	up	1.08	up	1.16	down	SFRS4
8051622a	2.23E-05	1.13	up	1.12	down	1.04	up	1.05	down	SFRS7
7929919a	7.16E-11	1.05	down	1.77	down	1.15	down	1.87	up	SFXN3
8100318a	1.67E-05	1.02	up	1.50	down	1.06	down	1.04	up	SGCB
8083471a	3.76E-07	1.38	up	5.63	up	1.18	down	1.28	down	SGEF
8129677a	4.00E-07	1.47	up	1.72	down	2.58	up	1.51	up	SGK1
8047288a	1.20E-07	1.10	up	1.03	up	1.12	up	1.39	down	SGOL2
8112409a	1.43E-06	1.67	down	1.09	down	1.45	down	1.21	up	SGTB
7994445a	9.55E-07	1.32	up	1.01	up	1.27	up	1.11	up	SH2B1
7913290a	6.42E-06	1.07	down	1.33	up	1.05	down	1.05	down	SH2D5
8072847a	1.45E-06	1.51	up	1.06	up	1.49	up	1.06	up	SH3BP1;PDXP
8085556a	3.17E-06	1.23	down	1.23	down	1.13	down	1.57	up	SH3BP5
8103166a	2.32E-08	1.14	down	1.99	down	1.22	down	1.62	up	SH3D19
7985507a	9.55E-05	1.37	down	1.10	down	1.33	down	1.06	down	SH3GL3
7902771a	8.20E-05	1.10	up	1.01	down	1.12	down	1.13	up	SH3GLB1
8108912a	4.11E-06	1.19	up	1.23	down	1.33	up	3.64	up	SH3RF2
8044295a	9.71E-06	1.39	up	1.24	down	1.34	up	1.08	down	SH3RF3
8049969a	9.45E-06	1.19	down	1.31	down	1.06	up	1.36	up	SH3YL1
8153652a	5.88E-08	1.16	down	1.42	down	1.14	down	1.57	up	SHARPIN
8161255a	1.38E-08	1.19	up	1.35	down	1.11	up	1.43	up	SHB;CKAP2
7920600a	9.22E-07	1.08	up	1.37	down	1.01	up	1.30	up	SHC1
8001133a	6.00E-08	1.08	up	1.31	down	1.07	up	1.67	up	SHCBP1
7920506a	2.17E-06	1.21	up	1.35	up	1.07	down	1.85	down	SHE
7970676a	2.08E-09	1.47	down	2.68	down	1.42	down	3.31	up	SHISA2
7930470a	1.58E-07	1.06	down	1.16	down	1.20	down	1.26	up	SHOC2
8011396a	3.31E-05	1.08	up	1.26	up	1.04	up	1.20	down	SHPK
8114068a	2.34E-06	1.02	down	1.25	up	1.10	up	1.11	down	SHROOM1

Transcript ID	Arsenic			Chromium		Nickel		Vanadium		Gene Symbol
	p-value	Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8095834a	6.60E-07	1.25	down	1.82	down	1.11	down	1.46	up	SHROOM3
7952408a	3.16E-05	1.05	down	1.08	down	1.17	up	1.85	down	SIAE
8001306a	6.39E-06	1.03	up	1.26	down	1.05	up	1.35	up	SIAH1
7971419a	2.34E-07	1.09	down	1.22	up	1.02	down	1.65	down	SIAH3
8160857a	8.70E-05	1.29	up	1.20	up	1.11	up	1.12	down	SIGMAR1
7943760a	6.55E-08	1.06	down	1.37	up	1.15	down	1.15	up	SIK2
7918847a	1.59E-05	1.00	up	1.24	up	1.19	down	1.14	down	SIKE1
7963970a	3.28E-06	1.18	down	1.05	up	1.14	down	1.20	up	SILV
8128459a	4.40E-08	1.39	up	1.25	up	4.16	up	1.06	up	SIM1
8068496a	8.37E-08	1.71	down	1.99	up	1.18	down	1.77	down	SIM2
7990487a	2.61E-06	1.10	up	1.22	down	1.20	up	1.28	down	SIN3A
8028286a	9.88E-05	1.10	down	1.23	up	1.33	down	1.15	up	SIPA1L3
8060418a	2.05E-07	2.02	down	3.25	down	2.55	down	1.53	up	SIRPA
8116956a	8.00E-05	1.37	up	1.04	up	1.46	up	1.02	up	SIRT5
8019296a	1.79E-06	1.23	up	1.25	up	1.21	up	1.15	down	SIRT7
7979510a	7.14E-06	1.16	up	1.66	up	1.01	down	1.44	down	SIX4
8138689a	8.39E-12	2.90	up	1.77	down	7.64	up	7.47	down	SKAP2
8179364a	1.76E-07	1.43	up	1.23	up	1.53	up	1.11	up	SKIV2L
8105353a	7.81E-11	1.68	down	1.09	down	1.32	down	1.26	up	SKIV2L2
7969533a	1.10E-08	1.32	up	2.33	up	1.17	down	4.56	down	SLAIN1
8094948a	1.85E-06	1.02	down	1.37	down	1.08	down	1.19	up	SLAIN2
7906613a	3.77E-06	1.50	down	1.00	up	1.62	down	1.46	up	SLAMF7
8176109a	4.72E-07	1.05	up	1.70	down	1.07	down	1.17	up	SLC10A3
8094960a	4.53E-07	1.78	down	1.29	down	1.81	down	1.02	up	SLC10A4
8151559a	1.46E-05	1.15	up	1.28	up	1.25	down	1.90	down	SLC10A5
8002152a	7.18E-05	1.04	down	1.26	down	1.01	up	1.63	up	SLC12A4
7987192a	1.56E-05	1.05	up	1.65	down	1.07	up	1.07	down	SLC12A6
8110755a	9.04E-07	1.11	up	1.61	up	2.39	up	2.16	down	SLC12A7
7918622a	1.38E-10	1.03	up	1.56	up	1.20	down	1.43	down	SLC16A1
8121515a	3.13E-08	1.38	up	1.28	up	1.44	up	1.70	down	SLC16A10
8004266a	1.70E-06	1.47	up	1.21	up	1.60	up	1.27	down	SLC16A13
8168424a	1.40E-06	1.60	up	1.19	down	1.40	up	2.72	up	SLC16A2
8070912a	5.91E-08	1.09	down	1.90	up	1.06	down	1.33	down	SLC19A1
8037835a	2.15E-06	1.09	down	1.31	up	1.33	down	1.09	up	SLC1A5
8044499a	7.88E-07	1.24	up	1.21	down	1.11	up	1.27	up	SLC20A1
7904226a	4.24E-05	1.83	up	1.63	up	1.20	up	1.76	down	SLC22A15
8123658a	2.44E-05	1.23	up	1.05	down	1.53	up	1.12	down	SLC22A23
8064808a	6.48E-05	1.47	down	1.06	up	1.82	down	1.10	up	SLC23A2
7966600a	9.64E-08	1.48	up	1.07	down	1.79	up	1.16	down	SLC24A6
8011747a	3.53E-05	1.20	up	1.33	up	1.15	up	1.11	down	SLC25A11
8056766a	1.30E-05	1.25	up	1.47	down	1.22	up	1.06	up	SLC25A12
8169904a	6.45E-05	1.12	up	1.46	down	1.02	up	1.18	down	SLC25A14
8018352a	2.98E-08	1.46	up	1.55	up	1.04	up	1.48	down	SLC25A19
7935639a	1.39E-07	1.24	down	1.41	up	1.23	down	1.39	down	SLC25A28
7971388a	5.43E-08	1.00	up	1.37	down	1.62	down	1.61	up	SLC25A30
8152255a	7.73E-06	1.19	up	1.25	up	1.19	up	1.38	down	SLC25A32;DCAF13
8145281a	2.40E-06	1.04	down	1.52	down	1.04	down	1.70	up	SLC25A37
8145291a	6.37E-08	1.66	down	2.32	down	1.45	down	1.80	up	SLC25A37
8016018a	1.09E-08	1.01	up	1.48	up	1.29	up	1.48	down	SLC25A39
8169624a	5.47E-07	1.35	up	1.25	down	1.16	up	1.28	down	SLC25A43
8169640a	3.10E-05	1.10	up	1.12	down	1.02	up	1.12	down	SLC25A5
8177003a	1.93E-09	1.38	up	1.58	up	1.82	up	1.52	down	SLC25A6;LOC138412
7983650a	5.42E-07	1.89	down	6.17	up	1.12	down	2.98	down	SLC27A2

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8162059a	4.94E-05	1.09	up	1.32	up	1.03	down	1.32	down	SLC28A3
8119974a	2.30E-05	1.01	down	1.40	up	1.13	up	1.13	down	SLC29A1
7928208a	5.30E-08	1.21	up	1.12	up	1.30	up	1.46	down	SLC29A3
8131326a	7.84E-07	1.48	up	1.28	up	1.91	up	1.18	down	SLC29A4
8064175a	7.42E-06	1.03	up	1.08	down	1.19	up	1.37	up	SLC2A4RG;ZBTB46
8158009a	4.85E-05	1.01	down	1.17	up	1.17	up	1.39	down	SLC2A8
7988426a	2.57E-06	1.25	up	1.71	down	1.02	down	1.25	up	SLC30A4
8094848a	2.85E-05	1.15	down	1.37	down	1.31	down	1.13	up	SLC30A9
8157270a	1.58E-05	1.01	down	1.39	up	1.03	down	1.46	down	SLC31A1
7951485a	2.45E-05	1.11	down	1.53	up	1.43	down	1.01	down	SLC35F2
7910618a	7.24E-05	1.54	down	1.37	down	1.38	down	1.45	up	SLC35F3
8054771a	5.13E-07	1.23	up	1.07	down	1.29	up	1.06	up	SLC35F5
8109350a	4.78E-05	1.31	down	1.30	down	1.17	down	1.11	up	SLC36A1
7950990a	1.36E-07	1.04	down	1.81	up	1.30	down	1.33	down	SLC36A4
8068810a	3.83E-06	1.04	up	1.18	up	1.77	up	1.66	down	SLC37A1
8143367a	9.96E-06	1.29	down	1.38	down	1.88	down	1.12	up	SLC37A3
7962516a	5.30E-05	1.16	down	1.16	up	1.06	up	1.07	down	SLC38A1
8019149a	6.10E-08	1.33	up	1.03	down	1.38	up	1.12	down	SLC38A10
7962537a	1.13E-06	1.03	down	1.16	down	1.06	up	1.17	up	SLC38A2
7962559a	2.46E-06	1.78	up	1.69	down	1.53	up	3.35	up	SLC38A4
8172425a	4.87E-07	5.45	down	1.59	down	8.04	down	1.33	down	SLC38A5
8112121a	4.67E-11	2.00	down	1.25	down	1.35	down	1.51	up	SLC38A9
7920401a	9.63E-05	1.00	down	1.23	down	1.25	down	1.02	down	SLC39A1
8018082a	2.52E-05	1.52	up	1.05	down	1.17	up	1.14	up	SLC39A11
8179525a	6.03E-06	1.29	up	1.04	up	1.23	up	1.12	up	SLC39A7
7940717a	3.06E-05	1.24	down	1.02	up	1.20	down	1.24	up	SLC3A2
8057677a	2.64E-08	2.48	up	1.29	up	2.36	up	2.12	down	SLC40A1
7965964a	1.13E-05	1.19	down	2.06	down	1.32	down	1.15	up	SLC41A2
7948249a	5.40E-06	1.29	down	1.34	up	1.02	down	1.62	down	SLC43A1
7948229a	8.14E-06	1.39	down	1.26	up	1.72	down	1.04	up	SLC43A3
8013616a	1.97E-05	1.64	up	1.67	up	1.22	up	1.40	down	SLC46A1;SARM1;TMEM199
7970793a	8.48E-08	1.32	up	2.41	down	2.07	up	1.30	down	SLC46A3
8005603a	1.05E-09	1.66	up	1.02	up	3.16	up	4.18	down	SLC47A1
8064613a	4.43E-06	2.24	down	1.19	down	2.25	down	1.02	down	SLC4A11
8041015a	1.17E-05	1.28	up	1.00	up	1.16	up	1.04	down	SLC4A1AP
8095585a	2.34E-11	1.81	down	1.24	down	6.48	down	4.18	up	SLC4A4
8001048a	8.11E-06	1.47	up	1.02	down	1.30	up	1.20	up	SLC5A2;C16orf58
8051030a	2.48E-05	1.34	up	1.39	up	1.38	up	1.23	down	SLC5A6
7965206a	4.27E-05	1.19	up	2.55	up	1.00	up	1.03	up	SLC6A15
8078014a	2.74E-05	1.23	up	1.18	down	1.66	up	1.06	down	SLC6A6
8001082a	2.09E-06	1.30	down	1.17	down	1.42	down	2.21	up	SLC6A8;SLC6A10P
8003298a	1.06E-05	1.33	down	1.11	down	1.30	down	1.43	up	SLC7A5
8051762a	4.40E-10	1.51	up	2.94	down	1.42	down	3.55	up	SLC8A1
8009685a	1.02E-05	1.24	up	1.30	up	1.15	up	1.21	down	SLC9A3R1
7996498a	8.72E-06	1.04	down	1.04	up	1.24	down	1.49	up	SLC9A5
8170097a	4.43E-06	1.01	up	1.41	down	1.03	down	1.07	up	SLC9A6
7986214a	1.47E-05	1.66	down	1.47	down	1.02	down	1.18	up	SLCO3A1
8063923a	1.36E-08	1.26	up	3.64	up	1.54	up	1.90	down	SLCO4A1;hCG_2018279
8107129a	6.97E-06	1.06	up	1.22	up	1.13	up	1.13	down	SLCO4C1
8113369a	1.60E-06	2.43	up	1.64	up	1.22	up	1.16	down	SLCO4C1
8014233a	1.54E-08	1.08	up	1.65	up	1.02	down	1.85	down	SLFN11
8014241a	3.55E-06	1.21	up	1.06	up	1.31	up	1.84	down	SLFN12
8014259a	2.81E-05	1.15	up	1.13	down	1.03	up	1.12	down	SLFN14

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8006531a	6.46E-05	2.19	up	1.32	down	1.24	up	1.14	up	SLFN5
8094301a	1.14E-07	3.79	up	1.05	down	4.44	up	1.24	down	SLIT2
8115691a	4.38E-09	1.32	up	2.62	down	1.23	down	2.73	up	SLIT3
7930276a	7.30E-07	1.13	down	1.15	down	1.26	down	1.27	up	SLK
8020226a	9.56E-05	1.05	up	1.22	up	1.07	up	1.22	down	SLMO1
7989253a	2.40E-05	1.01	up	1.29	down	1.05	down	1.44	down	SLTM
8097657a	1.07E-05	1.02	up	1.40	down	1.13	down	1.20	up	SMAD1
7984364a	2.31E-05	1.03	down	1.74	down	1.06	up	1.09	down	SMAD3
7984353a	6.74E-05	1.10	down	1.96	down	1.47	up	1.15	up	SMAD6
8023220a	6.46E-05	1.12	up	1.74	down	1.23	up	1.24	up	SMAD7
8120585a	2.31E-05	1.06	up	1.24	up	1.02	up	1.28	down	SMAP1;B3GAT2
7900426a	3.50E-07	1.11	up	1.11	up	1.25	down	1.48	up	SMAP2
8174985a	3.78E-06	1.31	up	1.43	down	1.05	down	1.10	down	SMARCA1
8154059a	4.23E-07	1.29	down	1.32	down	1.54	down	1.40	up	SMARCA2
8048175a	8.42E-08	1.37	up	1.08	up	1.26	up	1.02	up	SMARCAL1
7955331a	1.54E-05	1.13	up	1.27	up	1.21	up	1.13	down	SMARCD1
8015039a	6.84E-09	1.11	down	1.46	up	1.08	down	1.73	down	SMARCE1;KRT222
8005441a	2.81E-05	1.25	up	1.18	up	1.14	up	1.22	down	SMCR8
7999841a	2.09E-05	1.37	up	1.03	up	1.19	up	1.03	down	SMG1
8136080a	1.99E-08	1.06	up	1.79	up	1.47	up	1.55	down	SMO
7938100a	6.76E-07	1.42	up	1.02	down	1.41	up	1.27	up	SMPD1
8055183a	4.55E-06	1.25	up	1.10	up	1.29	up	1.02	up	SMPD4
8045301a	8.38E-07	1.20	up	1.30	up	1.28	up	1.02	down	SMPD4;LOC150776
8095491a	2.54E-06	1.00	down	1.20	down	1.00	up	1.19	up	SMR3B;IGHA1
8166402a	6.34E-05	1.02	up	1.34	up	1.14	down	1.02	down	SMS
7909689a	7.55E-07	1.30	down	1.39	down	1.42	down	1.29	up	SMYD2
7925589a	3.74E-08	1.46	down	1.13	up	2.00	down	1.85	up	SMYD3
8042705a	4.34E-09	1.48	up	1.47	up	1.39	up	1.31	down	SMYD5
8063382a	9.87E-10	1.34	up	2.29	down	1.36	up	1.01	down	SNAI1
8060963a	4.54E-06	1.00	down	1.12	up	1.07	up	1.87	up	SNAP25
7989924a	1.57E-05	1.34	up	1.13	down	1.32	up	1.31	down	SNAPC5
8016508a	5.37E-06	1.13	up	1.10	down	1.21	up	1.12	down	SNF8
7951032a	2.07E-06	1.19	down	1.57	up	1.38	down	1.24	down	SNORA1
7971386a	1.50E-05	1.01	down	1.20	down	1.35	down	1.00	down	SNORA31
8118207a	2.61E-05	1.33	up	1.07	up	1.39	up	1.08	down	SNORA38
7951038a	8.65E-07	1.28	down	1.37	up	1.54	down	1.23	down	SNORA40;TAF1D
8170992a	7.85E-08	1.42	down	2.16	down	1.90	down	1.09	up	SNORA56
8170863a	4.60E-09	1.29	down	2.29	down	1.73	down	1.47	up	SNORA70;RPL10
7951034a	3.93E-06	1.20	down	1.39	up	1.41	down	1.09	down	SNORA8;TAF1D
7982098a	2.90E-05	2.50	down	1.48	down	1.54	down	2.33	up	SNORD109A;SNORD109B
7981949a	7.80E-06	2.16	down	3.09	down	1.03	down	3.45	up	SNORD116-1
7981970a	2.61E-06	2.06	down	1.18	down	1.56	down	2.26	up	SNORD116-11
7981972a	4.08E-06	1.38	down	1.24	down	1.31	down	1.33	up	SNORD116-12
7981974a	4.77E-07	2.14	down	1.30	down	1.61	down	2.05	up	SNORD116-13
7981976a	2.13E-07	1.78	down	21.47	down	1.14	up	3.64	up	SNORD116-14
7981978a	3.25E-07	1.75	down	16.17	down	1.12	up	3.25	up	SNORD116-15
7981986a	8.33E-08	1.67	down	20.31	down	1.15	up	3.17	up	SNORD116-15-19/21-22
7981988a	5.31E-07	1.94	down	11.53	down	1.05	up	3.72	up	SNORD116-20;SNORD116
7981990a	1.14E-07	2.34	down	12.47	down	1.03	down	3.25	up	SNORD116-21;SNORD116
7981992a	3.29E-06	1.75	down	1.43	down	1.39	down	1.82	up	SNORD116-22
7981994a	2.79E-06	1.93	down	1.53	down	1.09	down	2.47	up	SNORD116-23
7981996a	3.73E-06	2.30	down	4.81	down	1.01	down	3.81	up	SNORD116-24
7982006a	4.62E-06	1.65	down	1.32	down	1.24	down	1.76	up	SNORD116-29

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
7981966a	6.03E-06	2.10	down	5.82	down	1.04	up	3.23	up	SNORD116-3/5/7-9
7981955a	1.73E-05	2.17	down	2.24	down	1.26	down	1.99	up	SNORD116-4;SNRPN
7981962a	6.66E-05	2.35	down	3.20	down	1.03	up	3.03	up	SNORD116-3/5/7/9
7981960a	5.57E-05	2.34	down	1.68	down	1.22	down	2.37	up	SNORD116-6
7981964a	3.39E-07	2.59	down	4.44	down	1.22	down	2.97	up	SNORD116-3/8/9
8145793a	3.81E-06	1.19	up	1.50	down	1.09	up	3.40	up	SNORD13
8086752a	2.37E-05	1.11	up	1.29	down	1.15	up	3.42	up	SNORD13;RNU13P3
8010078a	6.54E-05	1.21	down	1.18	up	1.67	down	1.10	up	SNORD1C
8159004a	2.41E-05	1.49	down	1.45	up	1.24	down	1.57	down	SNORD24;RPL7A
7901050a	8.24E-05	1.01	down	1.20	up	1.19	down	1.09	down	SNORD38A
7902398a	8.35E-05	1.29	down	1.10	up	1.38	down	1.10	up	SNORD45A;RABGGTB
7902400a	2.82E-06	1.36	down	1.00	down	1.61	down	1.04	up	SNORD45B;RABGGTB
7902396a	4.61E-06	1.18	down	1.11	up	1.59	down	1.04	up	SNORD45C
8005957a	2.91E-05	1.24	up	1.38	up	1.06	up	1.64	down	SNORD4B
7951036a	1.32E-07	1.28	down	1.48	up	1.45	down	1.11	down	SNORD5;TAF1D
7951030a	4.76E-09	1.28	down	1.52	up	1.45	down	1.40	down	SNORD6
7959586a	4.86E-05	1.02	down	1.22	down	1.19	up	1.05	down	SNRNP35
7914334a	4.28E-06	1.06	up	1.31	up	1.05	down	1.16	down	SNRNP40
8064502a	3.22E-07	1.45	down	1.11	up	1.50	down	1.15	down	SNRPB
8061075a	4.34E-07	1.75	down	1.06	up	1.89	down	1.06	down	SNRPB2
8118826a	9.94E-06	1.29	up	1.08	up	1.41	up	1.07	down	SNRPC
7981945a	3.99E-06	2.23	down	1.27	down	1.44	down	1.44	up	SNRPN
7981919a	1.03E-07	1.52	down	4.41	down	1.04	down	2.47	up	SNRPN;SNURF
8152606a	9.80E-07	1.65	up	1.49	down	1.19	up	1.17	down	SNTB1
7990528a	9.97E-10	1.06	up	2.95	down	1.02	up	1.01	up	SNUPN
7980463a	5.67E-05	1.28	up	1.09	up	1.07	up	1.06	down	SNW1
8131957a	1.27E-06	1.22	up	1.96	up	3.92	up	2.65	down	SNX10
8008096a	8.78E-05	1.23	up	1.13	up	1.21	up	1.05	down	SNX11
8173430a	4.62E-05	1.12	up	1.25	down	1.01	up	1.14	down	SNX12
8105328a	1.72E-08	1.29	down	1.02	up	1.25	down	1.34	up	SNX18
7985016a	1.51E-05	1.05	up	1.67	down	1.03	up	1.08	up	SNX33
8065165a	2.99E-07	1.64	down	1.17	up	1.90	down	1.10	down	SNX5
7903203a	2.41E-05	1.07	up	1.33	down	1.06	down	1.33	up	SNX7
8122986a	3.63E-05	1.11	up	1.23	down	1.25	up	1.05	down	SNX9
8041820a	2.75E-06	1.19	up	1.27	down	1.20	up	1.30	up	SOCS5
7936249a	4.20E-05	1.04	up	1.14	down	1.07	up	1.09	down	SORCS1
8093997a	2.27E-07	1.04	up	1.10	up	1.12	up	1.29	down	SORCS2
7983393a	4.06E-07	1.41	up	1.60	up	1.39	up	1.77	down	SORD
7944667a	4.83E-06	1.66	up	1.20	up	2.28	up	1.46	down	SORL1
7978932a	8.85E-07	1.12	up	1.71	down	1.01	down	1.20	up	SOS2
8117165a	2.12E-05	1.09	up	1.58	down	1.29	up	1.17	up	SOX4
8131709a	2.29E-06	1.23	up	1.19	up	1.27	up	1.27	down	SP4
7944869a	1.28E-07	1.40	down	1.38	up	1.06	up	2.63	down	SPA17;SIAE
8048081a	5.76E-07	1.15	up	1.14	up	1.21	up	1.30	down	SPAG16
8013671a	9.02E-06	1.03	up	1.00	up	1.17	up	1.60	down	SPAG5;FLJ25006
8175578a	3.19E-05	1.12	up	1.23	down	1.02	up	1.22	up	SPANXN2
8175572a	1.54E-07	1.32	down	1.29	down	1.48	down	1.87	up	SPANXN3
8115327a	4.86E-08	1.13	down	1.29	down	1.07	down	1.36	up	SPARC
7984488a	1.38E-10	1.11	down	1.37	up	1.15	down	2.52	down	SPESP1;NOX5
7988286a	1.37E-05	1.16	down	1.75	down	1.03	down	1.04	up	SPG11;ISLR
7989696a	1.99E-08	1.19	up	1.18	down	1.20	up	1.17	down	SPG21
7997909a	1.20E-08	1.32	up	1.28	up	1.66	up	1.32	down	SPG7
8030078a	2.58E-05	1.06	down	1.28	up	1.12	down	1.14	up	SPHK2

Transcript ID	Arsenic			Chromium		Nickel		Vanadium		Gene Symbol
	p-value	Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8173189a	1.02E-06	1.26	up	1.35	down	1.10	up	1.06	down	SPIN2B;SPIN2A
7998015a	6.00E-05	1.09	up	1.17	up	1.34	up	1.10	down	SPIRE2
7994518a	1.77E-06	1.31	up	1.20	up	1.22	up	1.09	up	SPNS1
7914467a	2.30E-05	1.08	up	1.48	down	1.26	down	1.92	up	SPOCD1
8114287a	1.55E-05	1.40	up	2.26	down	3.01	up	3.85	up	SPOCK1
8016562a	2.83E-06	1.23	up	1.11	up	1.08	up	1.29	down	SPOP
8042696a	2.20E-08	1.52	up	1.48	up	1.31	up	1.29	down	SPR
8052689a	5.96E-05	1.40	up	1.02	down	1.00	down	1.03	down	SPRED2
7998590a	5.17E-05	1.12	up	1.13	up	1.04	down	1.18	up	SPSB3
8041995a	3.78E-05	1.01	down	1.29	down	1.05	down	1.20	up	SPTBN1
8162294a	1.87E-06	1.23	down	1.24	up	1.14	down	1.43	down	SPTLC1
8060997a	2.64E-12	1.39	down	7.66	down	8.46	down	50.35	up	SPTLC3
7947040a	1.14E-05	1.17	up	1.46	up	1.01	down	1.24	down	SPTY2D1
8148280a	5.41E-05	1.03	down	1.23	down	1.35	up	1.61	down	SQLE
7983512a	6.00E-08	1.76	up	2.74	down	1.76	up	1.16	up	SQRDL
8013135a	9.71E-05	1.02	up	1.50	up	1.08	up	1.08	down	SREBF1
7956759a	3.92E-05	1.43	up	1.25	down	1.63	up	1.64	up	SRGAP1
7909175a	5.31E-06	1.00	up	1.38	down	1.24	down	1.26	up	SRGAP2
7904469a	4.95E-05	1.08	down	1.07	down	1.34	down	1.16	up	SRGAP2;SRGAP2P1/2
7952557a	1.69E-05	1.05	up	1.13	down	1.16	up	1.16	down	SRPR
8082816a	5.66E-05	1.03	up	1.42	up	1.00	up	1.08	down	SRPRB
8172043a	6.73E-06	1.08	down	1.08	up	1.03	down	4.23	up	SRPX
8168749a	1.22E-05	1.88	up	1.57	down	1.03	down	4.16	up	SRPX2
8003722a	8.24E-09	2.23	up	1.03	up	1.52	up	1.01	up	SRR;TSR1
8064375a	2.59E-06	1.79	down	1.20	up	2.01	down	1.07	down	SRXN1
8022625a	7.86E-05	1.14	down	1.10	up	1.13	down	1.26	down	SS18
8046201a	9.53E-07	1.17	up	1.02	up	1.01	up	1.20	down	SSB
8112940a	2.60E-05	1.02	down	3.32	down	3.08	down	1.50	up	SSBP2
8046726a	6.95E-08	1.45	up	1.01	up	1.55	up	1.03	down	SSFA2
8123767a	4.44E-07	1.27	up	1.13	up	1.27	up	1.03	up	SSR1
8170775a	2.03E-07	1.06	down	1.55	down	1.17	down	1.27	up	SSR4
7948211a	1.11E-05	1.23	down	1.22	up	1.18	down	1.10	down	SSRP1
7941296a	7.31E-05	1.02	down	1.39	up	1.22	down	1.04	down	SSSCA1
7974047a	2.40E-08	1.12	down	2.74	up	1.06	up	1.99	down	SSTR1
7990815a	1.18E-06	1.31	up	1.35	down	1.27	up	1.36	down	ST20;C15orf37
8002370a	2.83E-07	1.26	up	1.44	down	1.37	up	1.33	up	ST3GAL2
7945110a	1.08E-07	1.36	up	1.38	down	1.60	up	1.10	down	ST3GAL4
8081219a	1.54E-08	2.18	up	1.26	up	2.64	up	1.19	down	ST3GAL6
7932407a	6.69E-06	1.36	up	1.09	down	1.90	up	1.06	up	ST8SIA6
8078529a	6.92E-07	1.48	down	1.11	down	3.50	down	1.05	down	STAC
8042772a	3.71E-05	1.18	up	1.03	up	1.10	up	1.50	up	STAMBP
7929012a	1.33E-05	1.13	down	1.26	down	2.31	down	1.16	up	STAMBPL1
7950235a	3.65E-05	1.36	up	1.22	down	1.36	up	1.24	up	STARD10
7970924a	2.69E-07	1.09	down	1.71	down	1.27	down	1.36	up	STARD13
8006877a	1.21E-06	1.16	up	1.22	up	1.12	up	1.64	down	STARD3
8132376a	2.46E-05	1.20	up	1.16	down	1.05	down	1.31	up	STARD3NL
8053890a	1.47E-07	1.24	up	1.17	up	1.10	up	1.04	down	STARD7
7983143a	5.83E-05	1.03	up	1.64	down	1.15	up	1.21	down	STARD9
8057744a	3.69E-08	1.25	up	1.27	up	1.29	up	1.26	down	STAT1
8015607a	1.35E-07	1.05	down	1.27	up	1.04	up	1.74	down	STAT3
8015590a	3.04E-06	1.01	down	1.21	up	1.00	down	1.97	down	STAT5B
8149825a	5.84E-05	1.28	up	1.80	down	1.72	up	5.20	up	STC1
8115851a	6.45E-07	1.18	down	1.28	down	1.27	down	2.44	up	STC2

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8044793a	5.92E-05	1.37	up	1.26	up	1.53	up	1.54	up	STEAP3
8094501a	3.12E-06	1.16	up	1.45	down	1.24	down	1.03	up	STIM2
7940857a	2.85E-05	1.03	down	1.20	up	1.13	down	1.13	down	STIP1
8048505a	7.34E-09	1.46	up	1.00	up	1.55	up	1.04	up	STK16
8132503a	1.60E-06	1.08	down	1.02	down	1.20	down	1.62	up	STK17A
8057887a	6.02E-05	1.23	up	1.13	down	1.01	down	1.18	up	STK17B
8178164a	4.57E-06	1.53	up	1.33	down	1.27	up	1.10	up	STK19;LOC100294221
8179391a	8.45E-07	1.34	up	1.15	down	1.34	up	1.04	up	STK19;LOC100294221
8060257a	3.11E-06	1.32	up	1.05	up	1.46	up	1.05	up	STK25
7937089a	1.44E-07	1.18	up	1.29	down	1.46	up	1.47	up	STK32C
7946365a	1.05E-05	1.65	down	1.37	down	2.57	down	1.82	down	STK33
8060427a	2.60E-05	1.71	down	1.20	up	1.72	down	1.15	down	STK35
8048381a	4.31E-05	1.09	up	1.08	down	1.33	up	1.15	down	STK36
7954511a	4.00E-05	1.43	up	1.13	down	1.57	up	1.23	down	STK38L
7914904a	9.44E-06	1.05	up	1.55	up	1.04	down	1.00	down	STK40
8157605a	9.20E-05	1.37	down	1.37	up	1.03	up	1.23	down	STOM
7927915a	3.75E-07	1.20	up	1.06	down	1.73	up	1.94	down	STOX1
8098549a	3.92E-07	1.39	up	1.08	up	1.67	up	1.61	down	STOX2
8164013a	1.03E-08	1.45	down	1.42	up	1.05	up	2.82	down	STRBP
8037816a	6.01E-05	1.13	down	1.02	down	1.23	down	1.06	up	STRN4
8165866a	3.48E-06	1.16	up	1.18	up	1.53	down	1.13	down	STS
8078360a	4.52E-05	1.29	down	1.13	down	1.49	down	1.00	up	STT3B
7992021a	2.81E-05	1.07	up	1.24	down	1.18	down	1.42	up	STUB1;JMJD8
8122457a	2.57E-05	1.06	up	1.92	down	1.19	up	1.09	down	STX11
7899361a	7.57E-07	1.13	down	1.50	down	1.25	down	1.23	up	STX12
8000963a	2.00E-06	1.13	down	1.11	down	1.28	down	1.60	up	STX1B
8025255a	7.03E-09	1.46	up	1.13	up	1.60	up	1.44	down	STXBP2
7903541a	7.28E-05	1.11	up	1.16	up	1.07	down	1.26	down	STXBP3
8122600a	9.53E-07	1.06	up	1.85	down	1.00	up	1.27	up	STXBP5
7978376a	3.70E-07	1.18	down	4.80	up	2.33	down	1.58	down	STXBP6
7971541a	3.38E-05	1.07	up	1.30	down	1.18	down	1.22	up	SUCLA2
8088664a	4.13E-06	1.31	down	1.43	down	1.41	down	1.36	up	SUCLG2
7969271a	1.33E-05	1.00	down	1.22	down	1.37	down	1.29	up	SUGT1
8146863a	4.26E-07	2.48	up	1.00	up	5.65	up	3.21	down	SULF1
7994781a	9.17E-07	1.49	up	1.09	up	1.35	up	1.01	up	SULT1A1-4;GIYD1;GIYD2
8070811a	1.74E-05	1.18	up	1.29	up	1.15	up	1.13	down	SUMO3
8028674a	3.00E-05	1.05	down	1.26	up	1.19	down	1.03	up	SUPT5H
8051204a	8.84E-06	1.31	up	1.03	down	1.16	up	1.08	down	SUPT7L
8159008a	4.11E-05	1.07	down	1.42	up	1.09	up	1.18	down	SURF2
8164883a	2.84E-05	1.08	down	1.25	up	1.00	down	1.17	down	SURF4
8164862a	1.68E-06	1.10	down	1.44	up	1.18	down	1.27	down	SURF6
8156393a	3.98E-07	1.18	up	1.07	down	1.03	down	2.28	down	SUSD3
8086051a	1.50E-06	1.22	down	1.96	down	1.23	down	1.63	up	SUSD5
8167347a	4.67E-08	1.32	up	1.15	down	1.18	up	1.32	down	SUV39H1
8006325a	5.88E-05	1.03	down	1.17	up	1.04	down	1.38	down	SUZ12
8006183a	1.55E-05	1.05	up	1.27	up	1.07	up	1.38	down	SUZ12P
7919645a	1.96E-05	1.02	down	1.85	down	1.21	down	1.47	up	SV2A
8106336a	7.28E-05	1.13	up	1.20	up	1.03	up	1.08	up	SV2C
8163202a	7.20E-07	1.26	up	1.90	down	1.02	up	1.08	up	SVEP1
7932796a	5.48E-06	1.04	down	2.52	down	1.20	down	1.65	up	SVIL
7947147a	8.10E-09	1.30	up	2.59	up	1.04	up	2.46	down	SVIP
8166219a	4.08E-06	1.12	up	1.26	up	1.05	down	1.15	down	SYAP1
8067305a	1.37E-05	1.02	down	2.01	down	1.13	up	1.16	up	SYCP2

Transcript ID	Arsenic			Chromium		Nickel		Vanadium		Gene Symbol
	p-value	Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
7917322a	2.84E-09	1.44	up	1.49	up	1.37	up	2.36	down	SYDE2
7913814a	4.35E-05	1.13	up	1.23	up	1.06	down	1.16	down	SYF2
8037695a	2.66E-06	1.00	down	1.32	up	1.13	down	1.02	down	SYMPK
7914557a	2.75E-09	1.02	up	2.06	down	1.24	down	1.99	up	SYNC
8010243a	1.20E-09	1.32	up	1.99	up	1.32	up	1.78	down	SYNGR2
7986385a	4.05E-06	1.04	up	1.71	down	1.46	up	1.23	up	SYNM
8109305a	6.38E-09	1.06	up	1.48	down	1.29	up	1.18	up	SYNPO
8014551a	7.29E-06	1.21	up	1.23	up	1.16	up	1.55	down	SYNRG
8062964a	1.57E-05	1.11	up	1.22	up	1.31	up	1.06	up	SYS1;SYS1-DBNDD2
7950810a	1.46E-08	1.08	down	1.05	down	1.51	down	3.52	up	SYTL2
8123080a	4.82E-07	1.38	up	1.61	down	1.03	down	1.85	up	SYTL3
8173955a	6.19E-10	1.28	up	2.04	down	1.23	up	1.21	up	SYTL4
8145954a	2.22E-05	1.02	up	1.38	down	1.04	down	1.47	up	TACC1
8009176a	5.31E-07	1.45	up	1.11	up	1.24	up	1.14	down	TACO1
7946221a	5.17E-08	1.29	up	1.39	up	1.14	up	1.01	up	TAF10
8125859a	1.45E-08	1.29	up	1.26	down	1.39	up	1.22	up	TAF11;UHRF1BP1
7914218a	5.09E-05	1.20	up	1.21	up	1.09	down	1.22	down	TAF12
8006573a	8.00E-06	1.18	down	1.04	up	1.22	down	1.51	down	TAF15
8003125a	8.59E-07	1.33	up	1.22	up	1.35	up	1.11	down	TAF1C
7951008a	7.64E-07	1.28	down	1.43	up	1.39	down	1.24	down	TAF1D
8152553a	1.55E-06	1.16	up	1.14	up	1.19	up	1.31	down	TAF2
8020702a	1.14E-06	1.23	down	1.50	up	1.29	down	2.49	down	TAF4B
8119503a	1.74E-05	1.11	up	1.10	up	1.18	up	1.19	down	TAF8
8176263a	2.01E-09	1.17	up	1.41	down	1.25	up	1.31	down	TAF9B
7921487a	1.50E-08	1.11	down	1.18	down	1.08	down	1.48	up	TAGLN2
7937465a	8.15E-05	1.09	up	1.04	up	1.14	up	1.21	down	TALDO1
8009075a	2.14E-07	1.15	down	1.43	down	1.35	down	1.99	up	TANC2
8045933a	4.13E-06	1.30	up	1.29	down	1.17	up	1.06	down	TANK
7994692a	9.21E-08	1.41	up	1.01	up	1.29	up	1.01	up	TAOK2
8180166a	1.29E-06	1.10	up	1.39	down	1.50	up	1.19	up	TAPBP
8104760a	2.91E-05	1.21	up	1.41	up	1.13	up	1.34	down	TARS
7991640a	7.28E-06	1.21	up	1.16	up	1.37	up	1.41	down	TARSL2
8136844a	8.01E-05	1.06	up	1.30	up	1.04	up	1.08	down	TAS2R39
8065018a	2.99E-06	1.92	down	1.10	up	1.81	down	1.20	down	TASP1
8170865a	1.45E-05	1.07	up	1.48	down	1.01	down	1.19	up	TAZ
8000856a	3.38E-05	1.37	up	1.00	up	1.17	up	1.07	up	TBC1D10B
8094476a	3.27E-08	1.03	up	2.39	down	1.01	up	1.35	up	TBC1D19
8064336a	1.90E-06	1.66	down	1.04	down	1.77	down	1.07	down	TBC1D20
8167314a	1.17E-08	1.34	up	1.31	down	1.18	up	1.02	up	TBC1D25
7990657a	3.74E-05	1.21	up	1.52	down	1.27	up	1.04	up	TBC1D2B
7985224a	4.78E-07	1.45	up	1.66	down	1.49	up	1.09	down	TBC1D2B;LOC646938
8123961a	2.29E-10	1.57	up	1.31	down	1.61	up	1.24	up	TBC1D7
8102912a	2.07E-06	1.16	down	1.77	down	1.30	down	1.10	up	TBC1D9
7944623a	1.76E-06	1.15	down	1.47	down	1.10	down	1.15	down	TBCEL
8102171a	5.26E-08	1.22	down	1.75	down	1.43	down	1.87	up	TBCK
8008016a	7.69E-09	1.35	up	1.16	up	1.34	up	1.25	down	TBKBP1
8140070a	1.72E-05	1.23	up	1.21	up	1.28	up	1.09	down	TBL2
7944850a	9.95E-06	1.03	up	1.27	down	1.13	up	1.28	down	TBRG1
8127932a	1.97E-07	1.12	up	1.23	down	1.20	up	1.35	up	TBX18
8008969a	3.99E-06	1.02	up	1.37	up	1.10	up	1.18	down	TBX2
8138997a	4.43E-07	1.00	down	1.18	up	1.22	up	2.02	down	TBX20
7966690a	2.79E-05	1.09	up	1.46	down	1.49	up	2.20	up	TBX3
8008982a	1.42E-06	1.10	down	1.26	up	1.09	down	1.08	down	TBX4

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8032623a	8.36E-06	1.11	up	1.24	down	1.29	up	1.30	up	TBXA2R
8169049a	1.99E-06	1.26	up	1.53	down	1.07	up	1.02	down	TCEAL1
8169044a	4.51E-06	1.22	up	1.34	down	1.00	up	1.04	up	TCEAL3
8169035a	1.85E-09	1.28	up	1.52	down	1.17	up	1.06	down	TCEAL4
8174134a	8.46E-10	1.21	up	1.63	down	1.02	up	1.09	up	TCEAL6;TCEAL3;TCEAL2
8174228a	2.19E-06	1.59	up	1.39	down	1.23	down	1.26	up	TCEAL8
7998852a	1.87E-06	1.04	up	1.29	down	1.18	down	1.40	up	TCEB2
8108954a	2.94E-05	1.15	down	1.17	up	1.10	down	1.19	down	TCERG1
7983843a	9.22E-06	1.01	up	1.41	down	1.08	up	1.14	down	TCF12
8177947a	5.61E-05	1.22	up	1.16	down	1.47	up	1.34	up	TCF19
8179228a	2.24E-07	1.23	up	1.21	down	1.39	up	1.31	up	TCF19
8076436a	2.08E-05	1.13	up	1.38	up	1.10	up	1.25	down	TCF20
7998033a	8.02E-07	1.41	up	1.28	up	1.58	up	1.24	down	TCF25
8023415a	3.57E-08	4.09	up	1.62	down	5.74	up	4.63	down	TCF4
7930537a	4.33E-08	1.04	down	1.48	down	1.22	down	1.34	up	TCF7L2
8109254a	7.12E-07	1.10	down	1.50	up	1.09	down	1.13	down	TCOF1
7935251a	3.28E-07	1.14	down	1.26	up	1.08	down	1.22	down	TCTN3
7969341a	2.46E-05	1.05	down	1.41	down	1.00	up	1.26	up	TDRD3
8119386a	6.00E-05	1.07	down	1.23	up	1.05	down	1.11	up	TDRG1
7920057a	1.42E-06	1.08	up	1.23	down	1.19	up	2.21	down	TDRKH
8102789a	6.58E-06	1.08	down	1.13	up	1.02	up	1.34	down	TERF1;LOC646359
8002289a	5.51E-06	1.17	up	1.18	down	1.03	up	1.30	up	TERF2
8135576a	4.85E-09	1.74	down	2.36	down	2.18	down	3.27	up	TES
8096669a	5.65E-05	1.06	up	1.70	down	1.06	down	1.19	up	TET2
8096675a	2.25E-05	1.08	up	1.82	down	1.08	down	1.39	up	TET2
8042811a	8.68E-05	1.23	up	1.29	down	1.10	up	1.05	up	TET3
8162850a	1.44E-05	1.05	down	1.36	up	1.12	down	1.39	down	TEX10
8017582a	3.02E-05	1.15	up	1.09	up	1.37	up	1.00	up	TEX2
8052925a	9.57E-05	1.05	up	1.16	up	1.12	up	1.15	down	TEX261
7927669a	3.67E-07	1.00	down	1.12	up	1.26	down	1.41	down	TFAM
8116831a	1.15E-06	1.27	up	1.02	down	1.47	up	1.09	up	TFAP2A;LOC100130275
8123864a	1.05E-05	1.06	down	1.03	down	1.32	up	1.38	up	TFAP2A;LOC100130275
8063536a	5.15E-08	2.00	up	6.05	up	4.58	up	3.01	down	TFAP2C
7999102a	2.78E-06	1.06	up	1.63	up	1.16	down	1.06	down	TFAP4
8091103a	3.08E-05	1.15	up	1.21	up	1.41	up	1.35	down	TFDP2
8172520a	7.43E-05	1.26	up	1.28	down	1.06	up	1.13	down	TFE3
8126312a	1.99E-06	1.03	up	1.21	down	1.14	up	1.17	up	TFEB
8057599a	5.39E-09	1.41	up	2.48	down	1.21	up	1.79	up	TFPI
8037005a	3.50E-06	1.10	up	1.80	down	1.25	up	1.02	down	TGFB1
7995206a	5.68E-06	1.01	down	1.26	down	1.08	down	1.71	up	TGFB11
8108217a	1.38E-05	1.28	down	1.86	down	1.26	down	1.61	up	TGFB1
8156826a	1.33E-05	1.64	down	1.01	up	1.82	down	1.19	up	TGFBR1
8078350a	5.60E-10	1.39	down	2.59	down	1.84	down	2.54	up	TGFBR2
7917649a	9.67E-05	1.42	up	1.32	down	1.47	up	1.81	up	TGFBR3
8054364a	1.10E-05	1.39	up	1.37	up	1.15	up	1.10	down	TGFBRAP1
8168646a	3.43E-05	1.11	down	2.94	up	1.05	down	1.78	down	TGIF2LX;TGIF2LY
8051820a	1.92E-07	1.18	up	1.14	up	1.28	up	1.21	down	THADA
8150559a	3.47E-05	1.20	up	1.11	up	1.18	up	1.39	down	THAP1
8077250a	2.07E-06	1.40	up	1.27	up	1.35	up	1.14	down	THAP4
8065353a	7.89E-07	1.37	down	1.87	down	1.34	down	1.30	up	THBD
8130867a	2.67E-05	6.04	down	1.12	down	1.13	down	1.03	up	THBS2
7926708a	5.24E-05	1.11	down	1.17	down	1.52	down	1.49	up	THNSL1
8021924a	3.19E-07	1.05	down	1.19	up	1.09	down	1.60	down	THOC1

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8019273a	3.21E-08	1.40	up	1.02	down	1.52	up	1.07	down	THOC4
8024497a	4.68E-05	1.03	down	1.31	up	1.19	up	1.19	down	THOP1
8085797a	1.68E-07	1.12	up	2.05	down	1.23	down	1.64	up	THRB
7971813a	4.45E-06	1.02	up	1.49	down	1.11	up	1.64	up	THSD1
7984588a	4.91E-06	1.45	down	1.44	down	1.52	down	1.54	up	THSD4
8000003a	1.02E-05	1.31	up	1.22	up	1.19	up	1.12	down	THUMPD1
7952268a	5.46E-05	1.01	down	1.07	down	2.13	down	1.08	up	THY1
7952869a	1.86E-07	1.02	down	1.54	down	1.03	up	1.13	down	THYN1
8122933a	3.32E-07	1.37	up	1.68	down	1.48	up	1.37	up	TIAM2
8172453a	9.23E-08	1.17	up	1.25	down	1.19	up	1.30	down	TIMM17B
8003627a	1.19E-08	1.16	up	1.35	up	1.00	up	1.28	down	TIMM22
8033465a	1.68E-06	1.09	down	1.42	up	1.02	up	1.18	down	TIMM44
8174047a	2.92E-05	1.21	up	1.46	down	1.22	down	1.07	down	TIMM8A
8167185a	2.92E-07	1.18	up	1.46	down	1.01	down	1.32	up	TIMP1
8072626a	2.95E-09	2.53	down	9.68	up	5.16	down	1.07	down	TIMP3
8075635a	2.05E-07	1.66	down	3.39	up	2.80	down	1.04	up	TIMP3
7978208a	3.27E-06	1.38	up	1.28	down	1.27	up	1.21	up	TINF2
8018849a	2.63E-05	1.19	up	1.05	up	1.29	up	1.09	down	TK1
8001818a	1.05E-05	1.04	down	1.95	down	1.00	down	1.67	up	TK2
8013771a	2.46E-09	2.10	up	1.45	up	2.01	up	1.88	down	TLCD1
8056734a	9.23E-08	1.29	up	1.14	down	1.22	up	1.02	down	TLK1
8098214a	2.50E-07	1.60	up	7.28	down	1.11	up	3.95	up	TLL1
8161056a	4.23E-06	1.03	up	1.24	down	1.00	down	1.39	up	TLN1
7984019a	3.51E-05	1.21	up	1.09	up	1.17	down	1.61	up	TLN2
8098611a	3.10E-06	1.62	up	2.35	down	2.10	up	1.33	down	TLR3
8150364a	9.58E-05	1.08	up	1.48	down	1.05	up	1.24	up	TM2D2
7935320a	4.49E-08	1.20	down	1.13	up	1.26	down	1.16	down	TM9SF3
7959597a	1.37E-06	1.02	down	1.15	up	1.06	up	1.07	down	TMED2
7980381a	8.90E-05	1.45	up	1.06	up	1.30	up	1.05	down	TMED8
8156905a	5.05E-05	1.30	down	1.01	down	1.48	down	1.04	down	TMEFF1
8015900a	1.42E-05	1.07	down	1.56	up	1.01	up	1.38	down	TMEM101
8013500a	1.05E-08	1.35	up	1.47	up	1.12	up	1.37	down	TMEM11;ENO1
7954985a	1.29E-09	2.19	down	1.24	up	2.59	down	1.71	up	TMEM117
7951207a	1.42E-05	1.20	down	1.15	up	1.09	down	1.10	down	TMEM123
8053901a	1.20E-06	1.31	up	1.15	up	1.20	up	1.04	down	TMEM127
8099099a	3.21E-06	1.12	down	1.57	down	1.26	down	1.14	up	TMEM128
8120239a	8.21E-08	1.06	up	1.73	down	1.05	down	2.12	up	TMEM14A
8116867a	4.41E-05	1.13	up	1.08	down	1.15	up	1.07	up	TMEM14B
8099850a	1.24E-07	1.07	up	3.29	down	1.12	up	2.51	up	TMEM156
8113023a	1.73E-05	1.09	down	1.49	down	1.08	up	1.43	up	TMEM161B
8169365a	7.52E-08	1.40	up	1.40	down	1.35	up	1.13	up	TMEM164
8095148a	1.27E-07	1.16	down	1.44	down	1.26	down	1.24	up	TMEM165
8112967a	3.80E-08	1.28	down	1.34	down	1.23	down	1.76	up	TMEM167A
8039905a	7.50E-05	1.23	up	1.24	up	1.02	up	1.04	down	TMEM167B
8044844a	1.42E-06	1.44	up	1.50	up	1.11	up	1.12	down	TMEM177
8175621a	2.70E-07	1.14	down	1.49	down	1.48	down	1.39	up	TMEM185A
7999317a	5.43E-05	1.29	up	1.53	up	1.07	up	1.30	down	TMEM186
7995448a	8.98E-08	1.02	up	1.42	down	1.21	up	1.51	up	TMEM188
8066964a	4.00E-07	1.11	up	1.16	down	1.23	up	1.14	up	TMEM189-UBE2V1
7957167a	4.93E-05	1.19	down	1.16	down	1.18	down	1.20	up	TMEM19
8071541a	9.82E-06	1.22	up	1.03	up	1.40	up	1.04	up	TMEM191A-C
7897469a	2.53E-09	1.02	down	1.85	up	1.03	down	1.24	down	TMEM201
8165486a	6.88E-06	1.19	down	1.31	up	1.07	down	1.24	down	TMEM203

Transcript ID	Arsenic			Chromium		Nickel		Vanadium		Gene Symbol
	p-value	Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8165642a	6.37E-05	1.16	down	1.27	up	1.09	down	1.24	down	TMEM203
8142912a	3.36E-05	1.05	up	1.21	up	1.23	up	1.13	down	TMEM209
8040753a	1.85E-06	1.39	up	1.13	up	1.17	up	1.02	up	TMEM214
8154760a	1.87E-08	1.25	down	2.70	up	1.68	down	1.32	down	TMEM215
7952484a	2.01E-08	1.19	up	1.55	down	1.41	up	1.27	down	TMEM218
7994683a	3.88E-08	1.44	up	1.22	down	1.38	up	1.13	up	TMEM219
7899310a	1.55E-06	1.13	up	1.32	up	1.11	up	1.25	down	TMEM222
8026579a	4.53E-05	1.15	up	1.28	up	1.19	up	1.20	down	TMEM38A
8157092a	1.21E-07	1.22	up	1.84	up	1.31	up	2.36	down	TMEM38B
8092534a	3.47E-05	1.19	up	1.38	up	1.10	up	1.31	down	TMEM41A
8172022a	5.46E-11	1.56	down	1.37	up	1.49	down	60.58	up	TMEM47
7956749a	5.67E-05	1.37	up	1.28	up	1.25	up	1.27	down	TMEM5
7911634a	6.40E-06	1.17	up	1.01	down	1.30	up	1.07	up	TMEM52
7914592a	6.21E-06	1.14	up	1.40	up	1.28	up	1.09	down	TMEM54
8151756a	4.93E-06	1.37	up	1.46	down	1.01	up	1.52	up	TMEM55A
7983157a	1.40E-06	1.10	up	1.05	down	1.33	up	1.83	down	TMEM62
8150089a	7.05E-06	1.09	up	1.46	down	1.05	up	1.29	up	TMEM66
8147313a	1.79E-06	1.18	down	1.47	up	1.21	up	1.38	down	TMEM67
8146930a	3.09E-05	1.04	down	1.14	up	1.05	up	1.31	down	TMEM70
7982507a	3.54E-06	1.03	up	1.24	down	1.13	up	1.12	down	TMEM85
8044417a	1.34E-05	1.63	up	1.13	up	1.39	up	1.13	up	TMEM87B
7998233a	1.56E-05	1.13	up	1.18	down	1.08	down	1.48	up	TMEM8A
8003840a	2.48E-07	1.39	up	1.12	up	1.17	up	1.32	down	TMEM93
8005839a	1.52E-06	1.21	up	1.24	up	1.35	up	1.57	down	TMEM97
8006415a	1.02E-08	1.09	down	2.91	up	1.13	up	8.66	down	TMEM98
8007108a	3.66E-06	1.07	down	1.37	up	1.13	down	1.93	down	TMEM99
8176255a	4.93E-06	1.35	down	2.05	down	1.30	down	1.21	up	TMLHE
8156706a	8.59E-07	1.05	up	1.01	down	2.43	up	1.19	down	TMOD1
7983734a	4.43E-07	2.24	down	2.77	down	2.99	down	1.96	up	TMOD2
7983744a	8.10E-06	1.13	down	1.77	down	1.22	down	1.11	up	TMOD3
8043100a	1.06E-07	1.08	up	1.12	down	1.05	up	1.18	up	TMSB10
8007594a	8.38E-07	1.14	up	1.11	up	1.32	up	1.61	down	TMUB2
8064939a	4.49E-05	3.19	down	1.77	down	1.82	down	1.35	up	TMX4
8163637a	7.20E-07	1.83	down	1.86	down	2.70	down	4.19	up	TNC
7977046a	2.21E-05	1.07	up	1.40	down	1.66	up	1.79	down	TNFAIP2
8107520a	4.61E-06	1.05	down	2.00	down	1.03	up	1.35	up	TNFAIP8
7988763a	1.72E-08	1.11	up	2.61	down	1.10	up	1.50	up	TNFAIP8L3
8149749a	1.51E-05	1.15	down	1.02	down	1.57	down	1.77	up	TNFRSF10D
8021528a	2.18E-06	1.30	up	1.48	down	1.14	up	1.15	up	TNFRSF11A
8152512a	1.16E-07	1.19	up	2.62	up	1.03	down	8.25	down	TNFRSF11B
7992789a	2.85E-07	1.05	down	1.17	down	1.29	down	1.32	up	TNFRSF12A
8004464a	3.67E-07	1.21	up	1.00	up	1.24	up	1.48	down	TNFSF12-TNFSF13
8092095a	8.42E-06	1.18	down	2.14	up	2.54	down	1.87	up	TNIK
8099029a	8.68E-08	1.28	up	1.25	down	1.18	up	1.12	down	TNIP2
7929168a	2.82E-07	1.22	down	1.04	up	1.32	down	1.08	down	TNKS2
8132980a	5.97E-05	1.07	up	1.26	up	1.06	up	1.02	up	TNRC18
8058869a	5.30E-06	1.16	up	2.13	down	1.54	down	1.09	up	TNS1
8015016a	5.36E-05	1.06	down	1.29	down	1.04	down	1.08	up	TNS4
8179935a	8.62E-05	1.33	up	1.27	up	1.13	up	1.05	down	TNXB;TNXA
7901091a	7.18E-06	1.14	up	1.29	up	1.00	up	1.10	down	TOE1
7945620a	1.02E-07	1.42	up	1.15	up	1.27	up	1.04	down	TOLLIP
8029521a	1.36E-08	1.12	down	1.33	up	1.35	down	1.21	down	TOMM40
8014974a	6.02E-08	1.31	down	1.32	up	1.08	down	1.63	down	TOP2A

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8013222a	9.80E-05	1.15	up	1.31	up	1.13	up	1.08	down	TOP3A
8164587a	5.20E-05	1.14	up	1.15	up	1.19	up	1.45	down	TOR1A
8158560a	5.31E-05	1.15	down	1.36	up	1.09	down	1.32	down	TOR1B
8150962a	1.33E-08	2.48	up	4.16	up	8.08	up	5.19	down	TOX
8062782a	1.52E-07	1.31	up	1.09	down	1.42	up	2.61	up	TOX2
7988093a	1.03E-05	1.03	up	1.48	down	1.13	up	1.22	down	TP53BP1
7924526a	7.99E-06	1.01	down	1.41	down	1.36	down	1.11	up	TP53BP2
8050702a	2.70E-06	1.48	up	1.54	down	1.09	up	1.38	up	TP53I3
7897179a	1.09E-05	1.10	down	1.39	up	1.35	up	1.27	down	TP73
8120880a	1.94E-05	1.32	up	1.02	down	1.54	up	1.07	down	TPBG
8151475a	5.86E-09	1.22	up	1.63	up	1.58	up	1.98	down	TPD52
8143643a	4.31E-07	1.08	down	1.57	down	1.27	down	1.44	up	TPK1
7984079a	3.09E-06	1.09	down	1.69	down	1.02	up	1.27	up	TPM1
8161044a	4.84E-05	1.46	up	1.01	up	1.33	up	1.20	up	TPM2
7920472a	1.61E-05	1.12	up	1.32	down	1.00	up	1.03	down	TPM3
8124134a	1.24E-05	1.29	up	1.04	down	1.22	up	1.07	up	TPMT
8133155a	1.40E-06	1.29	up	1.16	down	1.36	up	1.08	up	TPST1
8074003a	5.22E-06	1.14	up	1.22	up	1.15	up	1.15	down	TRABD
8001938a	9.86E-06	1.31	up	1.10	down	1.31	up	1.04	up	TRADD
8159476a	1.13E-05	1.07	down	1.33	up	1.04	up	1.41	down	TRAF2
8049635a	1.44E-06	1.26	up	1.29	up	1.30	up	1.21	down	TRAF3IP1
8128939a	2.76E-06	1.28	up	1.23	down	1.44	up	1.17	up	TRAF3IP2
7909545a	1.60E-05	1.17	down	1.48	down	1.16	down	1.41	up	TRAF5
7992529a	1.10E-05	1.00	down	1.04	down	1.32	down	1.38	up	TRAF7;CASKIN1
8127051a	5.37E-06	1.03	down	1.07	up	1.21	up	1.48	up	TRAM2
7997852a	5.60E-08	1.43	up	1.40	up	1.60	up	1.19	down	TRAPPC2L
7914887a	7.00E-05	1.05	up	1.13	up	1.08	down	1.17	down	TRAPPC3;KIAA0100
8126402a	8.69E-05	1.32	up	1.10	down	1.30	up	1.28	up	TRERF1
8040365a	3.67E-08	1.47	up	2.28	down	1.35	up	1.55	up	TRIB2
8060344a	4.08E-06	1.48	down	1.09	up	1.47	down	1.01	up	TRIB3
7969153a	9.32E-05	1.16	down	1.11	down	1.22	down	1.30	up	TRIM13;KCNRG
8162729a	5.83E-08	1.02	down	1.55	up	1.03	up	1.64	down	TRIM14
8012953a	1.38E-05	1.73	up	1.47	down	1.73	up	1.43	up	TRIM16
8005475a	2.63E-06	2.24	up	1.64	down	2.15	up	1.01	up	TRIM16L
7945962a	1.98E-05	1.24	up	1.01	up	1.12	up	1.38	down	TRIM21
8136473a	9.11E-08	1.21	up	1.52	up	1.25	up	1.30	down	TRIM24
8179638a	1.55E-06	1.47	up	1.15	up	1.61	up	1.05	up	TRIM26
8179575a	1.02E-07	1.48	up	1.16	up	1.40	up	1.02	up	TRIM27
7918725a	6.26E-05	1.05	down	1.18	up	1.19	down	1.07	down	TRIM33
8149907a	2.36E-05	1.22	up	1.12	down	1.08	up	1.08	up	TRIM35
8113577a	5.05E-07	1.32	down	1.57	up	1.41	down	2.11	down	TRIM36
8017106a	9.37E-05	1.14	up	1.01	down	1.23	up	1.25	down	TRIM37
8117321a	1.07E-08	1.90	up	1.21	down	1.99	up	1.10	up	TRIM38
8179088a	1.14E-05	1.36	up	1.29	up	1.40	up	1.05	down	TRIM39;TRIM39R
8018494a	6.48E-05	1.16	up	1.19	down	1.17	up	1.04	down	TRIM47
7911218a	9.03E-06	1.84	up	2.03	up	1.06	up	2.22	down	TRIM58;OR2W3
8091757a	7.82E-08	1.02	down	1.53	up	1.37	up	1.88	down	TRIM59
7914630a	3.25E-06	1.46	up	1.06	up	1.61	up	1.06	up	TRIM62
7950965a	3.09E-06	1.01	down	1.21	up	1.02	down	1.30	down	TRIM64;TRIM64B/C;TRIM77
8025058a	1.58E-06	1.08	up	1.30	down	1.32	up	1.08	up	TRIP10
8059596a	9.72E-06	1.19	up	1.00	up	1.15	up	1.11	down	TRIP12
7984190a	1.32E-06	1.07	up	1.61	down	1.00	up	1.00	up	TRIP4
7915261a	2.32E-05	1.07	up	1.25	up	1.11	down	1.11	down	TRIT1

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8174005a	5.67E-06	1.30	up	1.29	down	1.23	up	1.26	down	TRMT2B
8064879a	2.76E-07	1.60	down	1.18	up	2.03	down	1.12	down	TRMT6
8073875a	8.65E-07	1.34	up	1.39	up	1.20	up	1.29	down	TRMU
8167835a	1.65E-06	2.17	up	1.13	down	1.73	up	1.01	down	TRO
7971104a	1.65E-06	1.66	up	7.80	down	2.10	up	1.64	up	TRPC4
8069085a	6.14E-06	1.09	down	1.26	up	1.04	down	1.11	down	TRPM2
8030251a	9.41E-07	1.09	up	1.31	down	1.07	up	1.28	up	TRPM4
8164781a	2.47E-06	1.11	up	1.28	up	1.35	up	1.73	down	TSC1
7992474a	1.31E-05	1.14	down	1.18	down	1.18	down	1.37	up	TSC2
7971350a	4.64E-10	1.05	up	1.38	down	1.22	down	2.05	up	TSC22D1
8174361a	9.34E-09	1.08	up	1.89	down	1.01	up	1.18	up	TSC22D3
8009832a	8.54E-07	1.19	up	1.31	up	1.22	up	1.12	down	TSEN54
8054166a	2.83E-05	1.28	up	1.08	up	1.04	up	1.29	down	TSGA10
8063444a	8.77E-05	1.06	up	1.09	up	1.01	down	2.33	up	TSHZ2;LOC100288461
8131600a	3.68E-05	2.37	up	2.62	up	1.40	up	1.00	up	TSPAN13
7928046a	4.69E-10	1.38	up	2.13	down	1.70	up	2.17	up	TSPAN15
8110224a	4.70E-08	1.28	up	1.12	up	1.54	up	1.30	down	TSPAN17
8136067a	4.37E-07	1.23	up	1.33	up	1.94	up	1.74	down	TSPAN33
8101828a	8.17E-08	1.21	down	1.64	down	1.46	down	2.14	up	TSPAN5
7953166a	6.31E-05	1.19	up	1.60	up	1.37	up	1.25	down	TSPAN9
8073612a	4.69E-05	1.13	up	1.35	down	1.07	up	1.33	up	TSPO
8011245a	2.06E-08	1.10	up	1.50	up	1.27	down	1.35	down	TSR1;SRR
8167790a	1.38E-05	1.15	up	1.04	down	1.05	up	1.57	down	TSR2
8050060a	5.82E-05	1.29	up	1.06	down	1.23	up	1.23	up	TSSC1
7937813a	2.59E-05	1.13	up	1.08	up	1.15	up	1.11	down	TSSC4
8035684a	7.45E-05	1.03	down	1.45	up	1.04	up	1.05	down	TSSK6
8075857a	8.51E-05	1.60	up	1.03	down	1.11	up	1.69	down	TST
8153474a	6.04E-08	1.22	down	1.65	down	1.27	down	1.76	up	TSTA3
7943919a	1.00E-06	1.18	down	1.44	up	1.02	down	1.75	down	TTC12
7925003a	1.34E-05	1.43	down	1.13	down	1.67	down	1.03	up	TTC13
8040018a	4.62E-05	1.08	up	1.32	down	1.07	up	1.32	up	TTC15
7991485a	3.08E-05	1.02	up	1.53	down	1.07	up	1.06	up	TTC23
8007176a	4.06E-05	1.04	down	1.30	up	1.01	up	1.32	down	TTC25
8136495a	8.46E-10	1.46	up	1.86	up	1.86	up	1.85	down	TTC26
8041360a	2.44E-08	1.32	up	1.34	up	1.13	up	1.29	down	TTC27
8075142a	1.62E-08	1.38	up	1.51	down	1.29	up	2.26	down	TTC28;LOC284900
8056999a	1.19E-08	1.34	up	1.01	up	1.55	up	1.33	down	TTC30A
8042874a	2.52E-06	1.07	up	1.34	down	1.19	up	1.16	up	TTC31
8113157a	9.15E-08	1.21	down	1.58	down	1.01	up	1.80	up	TTC37
8073842a	1.02E-09	1.06	up	1.36	up	1.15	up	1.39	down	TTC38
7901662a	4.05E-07	1.08	up	1.40	up	1.14	down	1.11	down	TTC4
8041826a	2.08E-05	1.31	up	1.15	down	1.32	up	1.18	up	TTC7A
8048411a	7.97E-07	1.37	up	1.40	up	1.39	up	1.07	down	TTL4
7917199a	1.46E-05	1.24	down	1.56	down	2.27	down	1.60	up	TTL7
8151042a	2.92E-06	1.44	down	1.09	down	1.66	down	1.10	up	TTPA
8124262a	1.09E-07	1.29	up	1.00	down	1.36	up	1.05	down	TTRAP
8177217a	3.41E-07	1.11	down	1.24	down	1.13	down	1.41	up	TTY14
8009568a	4.49E-05	1.15	up	1.08	up	1.32	up	1.13	down	TTYH2
7938269a	1.23E-05	1.06	up	1.37	up	1.06	up	1.75	up	TUB
7963054a	2.71E-08	1.16	down	2.21	down	1.09	down	2.36	up	TUBA1A
7998063a	2.57E-05	1.25	up	1.08	up	1.38	up	1.16	up	TUBB3;MC1R
8159786a	4.53E-05	1.13	down	1.17	up	1.12	down	1.28	down	TUBBP5;TUBB4Q
8007302a	1.25E-06	1.01	up	1.35	up	1.04	up	1.31	down	TUBG1

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8007312a	1.74E-06	1.09	up	1.59	up	1.17	down	1.24	down	TUBG2
7937175a	1.33E-05	1.09	down	1.10	up	1.06	down	1.40	up	TUBGCP2
7983206a	2.85E-10	1.32	up	1.27	down	1.44	up	1.46	down	TUBGCP4
8000603a	7.35E-06	1.32	up	1.35	up	1.15	up	1.07	down	TUFM
7905428a	5.57E-05	1.19	down	1.60	down	1.49	down	1.14	up	TUFT1
8144726a	2.16E-05	1.24	down	1.43	down	1.06	down	1.29	up	TUSC3
7899703a	2.94E-05	1.20	up	1.29	up	1.15	up	1.02	down	TXLNA
7999478a	8.62E-05	1.44	up	1.47	up	1.10	up	1.03	down	TXNDC11
7904726a	1.73E-06	1.83	down	1.03	up	3.09	down	1.30	up	TXNIP
8023450a	9.05E-07	1.11	up	1.52	down	1.04	up	1.22	up	TXNL1
8002660a	6.62E-05	1.16	up	1.31	down	1.09	up	1.65	up	TXNL4B
8154367a	1.29E-05	1.06	up	1.03	up	2.03	up	1.01	down	TYRP1
8139935a	8.53E-05	1.03	up	1.08	up	1.04	down	1.44	down	TYW1B
8070655a	4.25E-06	1.02	up	1.23	up	1.01	up	1.30	down	U2AF1
8036143a	7.65E-05	1.13	down	1.17	up	1.02	down	1.37	down	U2AF1L4
7990054a	5.94E-05	1.05	down	1.72	down	1.27	up	1.16	down	UACA
8167069a	6.43E-08	1.23	up	1.14	down	1.12	up	1.19	down	UBA1
8027650a	9.67E-06	1.17	down	1.11	up	1.27	down	1.11	down	UBA2
8087485a	5.76E-05	1.02	down	1.53	down	1.16	up	1.10	up	UBA7
8165064a	4.94E-05	1.12	down	1.18	up	1.15	up	1.45	down	UBAC1
8169645a	5.15E-06	1.15	up	1.26	down	1.02	up	1.15	down	UBE2A
8132523a	3.22E-05	1.11	up	1.20	up	1.35	up	1.18	down	UBE2D4
8078252a	3.54E-08	1.09	down	1.25	down	2.29	down	1.00	up	UBE2E2
8070799a	2.50E-05	1.11	down	1.43	up	1.16	down	1.43	down	UBE2G2;SUMO3
8142886a	1.65E-05	1.02	up	1.25	down	1.01	up	1.32	up	UBE2H
7992205a	2.52E-06	1.04	down	1.10	down	1.18	down	1.27	up	UBE2I
7944195a	1.38E-06	1.01	up	1.24	up	1.03	up	1.31	down	UBE4A
7970831a	8.10E-09	1.28	down	1.49	down	2.12	down	2.02	up	UBL3
8176098a	4.27E-08	1.08	down	1.78	down	1.24	down	1.33	up	UBL4A
7990361a	5.38E-06	1.17	up	1.19	down	1.29	up	1.15	down	UBL7
7993035a	3.65E-07	1.06	up	1.36	down	1.30	down	1.33	up	UBN1
8136516a	1.65E-07	1.18	up	1.36	up	1.35	up	1.47	down	UBN2
8161988a	3.12E-05	1.00	down	1.31	up	1.01	up	1.28	down	UBQLN1
8091352a	1.62E-05	1.29	up	1.08	down	1.05	up	1.39	up	UBQLN4
8026490a	4.43E-06	1.05	down	1.07	down	1.07	down	2.73	down	UCA1
7969428a	5.64E-06	1.12	down	1.47	down	1.30	down	1.42	up	UCHL3
7950307a	1.92E-09	1.33	down	2.59	up	1.03	down	2.50	down	UCP2
7947027a	9.67E-06	1.29	up	1.14	up	1.24	up	1.27	down	UEVLD
7906662a	2.46E-06	1.12	down	1.70	down	1.24	down	1.23	up	UFC1
8157216a	2.51E-05	1.46	down	1.11	up	1.35	down	1.32	down	UGCG
8099897a	5.75E-05	1.41	up	1.49	up	1.17	up	1.07	up	UGDH
7972369a	2.68E-06	1.59	down	1.10	down	1.98	down	1.19	down	UGGT2
8097017a	6.90E-09	1.98	up	6.42	up	1.19	down	1.20	down	UGT8
8122724a	7.37E-06	1.08	down	2.27	up	1.05	up	1.72	down	ULBP1
8013399a	4.08E-05	1.07	down	1.26	up	1.59	up	1.48	down	ULK2
8086352a	6.14E-06	1.75	down	1.12	down	1.40	down	1.04	down	ULK4
8013633a	1.44E-05	1.27	up	1.17	up	1.20	up	1.12	down	UNC119
7960362a	6.66E-09	1.01	down	1.61	up	1.06	down	2.10	down	UNQ3104
7992996a	1.64E-07	1.03	up	1.08	down	1.49	down	1.65	up	UNQ3118
8116722a	1.49E-05	1.07	up	1.47	up	1.42	down	1.43	down	UNQ5815
8174717a	7.33E-05	1.16	up	1.21	down	1.07	up	1.59	down	UPF3B
8133741a	1.98E-06	1.09	down	1.22	up	1.04	down	1.01	down	UPK3B
8069943a	4.11E-05	1.08	up	1.51	up	1.02	down	1.20	down	URB1

Transcript ID	Arsenic			Chromium		Nickel		Vanadium		Gene Symbol
	p-value	Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
7997633a	1.34E-08	1.39	up	1.52	up	1.45	up	1.30	down	USP10
8167125a	5.30E-06	1.28	up	1.17	down	1.07	up	1.08	up	USP11
8019807a	2.62E-05	1.07	down	1.17	up	1.12	down	1.27	down	USP14
8071155a	8.66E-07	1.47	up	1.41	up	1.69	up	1.65	down	USP18
8074606a	1.21E-07	1.49	up	1.48	up	1.78	up	2.34	down	USP18;USP41
7952249a	8.38E-05	1.62	down	1.41	down	1.58	down	1.14	up	USP2
8067903a	2.29E-10	1.34	up	1.87	down	1.18	up	1.62	up	USP25
7951752a	3.14E-07	1.17	down	1.53	up	1.13	down	1.27	down	USP28
8000244a	1.01E-06	1.32	up	1.15	up	1.25	up	1.03	up	USP31
8017212a	6.29E-05	1.14	up	1.17	down	1.11	up	1.09	down	USP32
8058940a	3.87E-06	1.10	up	1.09	up	1.24	up	1.19	down	USP37
8043218a	2.30E-07	1.21	up	1.28	up	1.24	up	1.09	down	USP39
8087380a	1.29E-05	1.15	up	1.39	down	1.02	down	1.49	up	USP4
8131387a	2.65E-06	1.07	up	1.34	up	1.19	up	1.06	down	USP42
7938448a	8.97E-05	1.17	up	1.32	up	1.05	up	1.10	down	USP47
7999326a	1.05E-06	1.43	up	1.43	up	1.14	up	1.35	down	USP7
8166826a	5.51E-10	1.30	down	1.63	down	1.52	down	1.54	up	USP9X
8176578a	7.44E-09	2.24	down	7.84	down	1.44	up	12.17	up	USP9Y
7968333a	5.88E-06	1.04	down	1.39	down	1.40	down	1.28	up	USPL1
7900201a	9.86E-06	1.04	up	1.22	up	1.23	down	1.10	down	UTP11L
8169868a	6.65E-05	1.35	up	1.02	up	1.06	up	1.25	down	UTP14A
8147994a	3.92E-05	1.30	up	1.28	down	1.31	up	1.08	down	UTP23
8014081a	1.40E-06	1.07	down	1.44	up	1.11	down	1.61	down	UTP6
8122464a	2.70E-05	1.09	down	1.64	down	1.17	up	1.13	up	UTRN
8177137a	1.07E-08	2.05	down	6.17	down	2.16	up	16.06	up	UTY
8054395a	4.95E-05	1.24	up	1.05	down	1.12	up	1.13	up	UXS1
8002421a	1.35E-05	1.35	up	1.15	down	1.35	up	1.35	up	VAC14
7960544a	1.58E-05	1.56	up	1.05	up	1.53	up	1.09	up	VAMP1;TAPBPL
7897370a	2.50E-06	1.08	up	1.15	up	1.01	down	1.10	down	VAMP3
8043203a	7.59E-05	1.45	up	1.21	up	1.56	up	1.26	down	VAMP5
8176962a	8.24E-09	1.20	down	1.57	down	1.37	down	1.08	up	VAMP7
8043197a	9.27E-05	1.28	up	1.36	down	1.01	up	2.81	down	VAMP8
7992967a	7.00E-10	1.14	up	1.70	down	1.18	down	1.71	up	VASN
8171013a	2.12E-07	1.33	down	1.63	down	1.58	down	1.03	down	VBP1
8165881a	9.43E-05	1.37	up	1.04	up	1.24	up	1.09	down	VCX;VCX3A/B;VCX2;VCY
8042335a	4.34E-09	1.14	down	1.28	up	1.15	down	1.16	down	VDAC2;LOC729317
7962689a	5.72E-08	1.62	up	1.54	down	1.51	up	1.99	up	VDR
8041467a	4.70E-05	1.47	up	1.12	down	2.85	up	1.05	down	VIT
8154100a	4.19E-09	2.57	down	1.66	down	3.22	down	1.87	up	VLDLR
8170479a	9.15E-08	1.26	down	1.46	down	1.35	down	1.37	up	VMA21
8139712a	7.03E-06	1.27	up	1.11	down	1.20	up	1.22	up	VOPP1
8155946a	1.90E-05	1.42	down	1.29	up	1.31	down	1.71	down	VPS13A
7982845a	5.95E-06	1.29	up	1.14	down	1.27	up	1.15	down	VPS18
7945275a	1.78E-05	1.07	down	1.37	down	1.01	up	1.02	up	VPS26B
8153776a	2.74E-08	1.21	down	1.61	down	1.25	down	1.50	up	VPS28
7991427a	6.80E-05	1.10	up	1.17	down	1.19	up	1.22	down	VPS33B
8001149a	3.25E-06	1.01	up	1.20	down	1.09	up	1.38	up	VPS35
7971820a	9.19E-09	1.18	down	1.51	down	1.40	down	1.40	up	VPS36
7905099a	1.47E-05	1.06	down	1.24	down	1.14	down	1.24	up	VPS45
8180123a	2.52E-06	1.26	up	1.09	down	1.33	up	1.09	up	VPS52
8042107a	1.82E-07	1.01	up	1.40	up	1.04	down	1.07	down	VRK2
8062427a	2.66E-06	1.13	up	1.33	down	1.04	down	1.34	up	VSTM2L
8138277a	1.49E-06	3.03	up	1.68	up	1.28	up	1.01	down	VWDE

Transcript ID	Arsenic			Chromium		Nickel		Vanadium		Gene Symbol
	p-value	Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
7934812a	1.18E-07	1.12	down	1.20	up	1.19	down	1.28	down	WAPAL
7914094a	1.56E-05	1.07	down	1.44	up	1.04	up	1.12	down	WASF2
8053599a	1.95E-06	1.37	up	1.01	down	1.53	up	1.05	up	WBP1;INO80B;LOC729859
8169022a	1.59E-06	1.24	up	1.68	down	1.15	down	1.04	down	WBP5
8059361a	1.67E-05	1.20	up	1.08	down	1.26	up	1.16	up	WDFY1
7969204a	5.92E-07	1.04	up	1.39	down	1.16	down	1.39	up	WDFY2
8101511a	7.05E-06	1.08	up	1.50	down	1.06	up	1.07	up	WDFY3
8167322a	3.09E-06	1.30	up	1.19	down	1.22	up	1.08	down	WDR13
8098379a	5.35E-07	2.11	up	2.40	up	1.32	up	3.87	down	WDR17
7904364a	3.17E-05	1.12	up	1.42	up	1.21	down	1.24	down	WDR3
8163491a	1.92E-05	1.07	down	1.49	up	1.06	up	1.44	down	WDR31
8107282a	1.30E-05	1.08	down	1.20	up	1.13	down	1.36	down	WDR36
7925851a	5.73E-05	1.06	down	1.07	down	1.33	down	1.08	up	WDR37
8070615a	1.09E-05	1.10	up	1.51	up	1.02	down	1.31	down	WDR4
8112746a	5.15E-08	1.13	down	1.66	down	1.13	up	1.79	up	WDR41
8178939a	1.50E-05	1.27	up	1.27	up	1.26	up	1.03	up	WDR46
8159111a	1.21E-06	1.06	down	1.41	up	1.09	up	1.42	down	WDR5
7959330a	9.59E-07	1.04	down	1.72	up	1.82	down	1.07	up	WDR66
8148158a	2.48E-07	1.01	up	1.02	down	1.25	up	1.40	down	WDR67
8021312a	7.86E-06	1.29	up	1.72	down	1.14	up	1.27	up	WDR7
8104998a	7.89E-05	1.02	up	1.50	up	1.13	up	1.31	down	WDR70
7991126a	1.05E-07	1.16	up	1.00	up	1.16	up	1.51	down	WDR73
7948881a	4.20E-06	1.06	down	1.34	up	1.27	down	1.32	down	WDR74
7983306a	7.51E-05	1.06	down	1.08	down	1.13	up	1.28	down	WDR76
7918517a	2.91E-07	1.15	up	1.35	up	1.12	down	1.26	down	WDR77
7911839a	1.79E-05	1.00	down	1.37	up	1.08	up	1.20	down	WDR8
8165610a	1.31E-06	1.04	down	1.36	up	1.02	up	1.40	down	WDR85
8056047a	3.23E-06	1.36	up	1.27	up	1.40	up	1.16	down	WDSUB1
8148198a	9.32E-06	1.36	up	1.08	down	1.53	up	1.03	down	WDYHV1
7986687a	1.73E-05	1.08	up	1.10	down	1.46	up	1.50	down	WHAMML1;WHAMML2
8017850a	1.31E-08	1.48	up	1.36	down	1.51	up	1.04	up	WIPI1
8131303a	3.05E-07	1.13	up	1.27	up	1.23	up	1.15	down	WIPI2
8007363a	2.94E-08	1.47	up	1.32	up	1.55	up	1.97	down	WNK4
8016311a	3.78E-05	1.11	down	1.23	up	1.05	down	1.44	down	WNT3
8004556a	3.33E-08	1.17	up	1.24	up	1.16	up	1.34	down	WRAP53
8116595a	6.93E-07	1.36	up	1.20	up	1.32	up	1.11	up	WRNIP1
7966829a	6.95E-08	1.04	down	1.27	down	1.05	up	1.59	up	WSB2
7947363a	1.33E-10	1.09	up	1.21	up	1.25	up	2.97	down	WT1
8123129a	7.72E-05	1.36	down	1.02	down	1.23	down	1.09	down	WTAP
8126952a	6.61E-08	1.93	down	1.08	down	1.75	down	1.12	down	WTAP
8109773a	2.53E-05	1.22	down	1.08	down	1.59	down	1.17	up	WWC1
8004184a	1.30E-07	1.47	up	1.05	up	2.09	up	2.33	down	XAF1
8149307a	4.34E-09	1.64	down	1.14	down	1.46	down	1.06	up	XKR6
7936284a	1.04E-08	1.19	down	1.21	down	1.27	down	1.53	up	XPNPEP1
8000482a	1.93E-06	1.36	up	1.15	up	1.14	up	1.02	up	XPO6
7956785a	6.05E-07	1.07	down	1.38	up	1.06	down	1.10	down	XPOT
8106730a	1.28E-05	1.03	down	1.24	down	1.03	up	1.79	up	XRCC4
8048146a	1.88E-05	1.08	up	1.04	up	1.05	up	1.11	down	XRCC5
8091141a	1.42E-06	1.05	down	1.28	up	1.16	up	1.55	down	XRN1
8061324a	3.08E-08	1.91	down	1.15	up	2.22	down	1.11	down	XRN2
7943398a	8.76E-05	1.03	down	1.26	up	1.08	down	1.02	down	YAP1
7914563a	1.94E-08	1.06	down	1.44	up	1.20	down	1.03	up	YARS
8074773a	1.27E-07	1.51	up	1.37	up	1.15	up	1.21	down	YDJC

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8021984a	2.52E-05	1.03	down	1.19	up	1.12	down	1.39	down	YES1
8168018a	1.90E-06	1.16	up	1.27	down	1.01	down	1.50	down	YIPF6
8074780a	7.61E-06	1.22	down	1.07	up	1.45	up	1.78	down	YPEL1
7915084a	4.17E-05	1.34	up	1.22	up	1.25	up	1.01	down	YRDC;C1orf122
8055361a	4.37E-05	1.08	up	1.12	down	1.01	down	1.13	up	YSK4
8055476a	5.75E-05	1.00	down	1.13	up	1.04	down	1.09	down	YWHAE
8140398a	8.79E-05	1.16	up	1.21	up	1.06	up	1.16	down	YWHAG
8050215a	1.36E-07	1.08	up	1.16	down	1.09	up	1.16	up	YWHAQ;LOC392510
8177029a	3.03E-05	1.15	up	1.07	up	1.39	up	1.17	down	ZBED1;DHRSX
8147040a	6.53E-08	1.14	up	1.20	down	1.13	up	2.66	down	ZBTB10
8089701a	5.55E-07	3.17	up	1.73	down	1.69	up	2.63	down	ZBTB20
8164002a	1.95E-06	1.50	down	1.10	up	1.26	down	1.19	down	ZBTB26
8157933a	1.44E-05	1.00	down	1.40	up	1.02	up	1.49	down	ZBTB43
7952739a	1.88E-08	1.04	down	1.22	down	1.16	up	1.59	down	ZBTB44
8079099a	1.91E-06	1.20	down	1.19	down	1.29	down	1.13	up	ZBTB47
8118721a	5.02E-08	1.50	up	1.04	up	1.50	up	1.09	up	ZBTB9
7908978a	3.94E-05	1.38	down	1.38	down	1.44	down	1.13	up	ZC3H11A
7900146a	5.97E-06	1.09	up	1.22	down	1.17	up	1.22	down	ZC3H12A
8167957a	3.37E-05	1.04	up	1.25	up	1.04	up	1.82	down	ZC3H12B
8046848a	2.13E-07	1.27	up	1.22	up	1.17	up	1.27	down	ZC3H15
7997779a	1.05E-06	1.36	up	1.41	up	1.52	up	1.24	down	ZC3H18
8143279a	1.89E-06	1.25	up	1.45	up	1.16	up	1.20	down	ZC3HAV1
8142899a	2.22E-05	1.24	up	1.02	down	1.16	up	1.14	down	ZC3HC1
8173261a	1.45E-09	3.49	down	1.49	down	3.16	down	7.00	down	ZC4H2
7916185a	9.32E-05	1.06	down	1.20	up	1.10	down	1.26	down	ZCCHC11
8003263a	3.25E-08	1.34	up	1.35	up	1.68	up	1.64	down	ZCCHC14
8021546a	1.72E-05	1.27	up	1.37	down	1.01	down	1.15	up	ZCCHC2;C18orf49
7934690a	2.61E-06	1.10	down	1.09	down	1.30	down	1.41	up	ZCCHC24
8106702a	9.18E-05	1.13	up	1.23	down	1.24	up	1.46	up	ZCCHC9
7962367a	4.71E-05	1.06	up	1.10	down	1.27	up	1.10	down	ZCRB1
7929634a	1.46E-05	1.13	down	1.18	up	1.16	down	1.14	down	ZDHHC16
7899253a	8.18E-07	1.08	down	1.34	up	1.08	down	1.23	down	ZDHHC18
8144758a	1.27E-06	1.34	up	1.53	down	1.40	up	1.15	down	ZDHHC2
8160151a	2.85E-07	1.20	down	1.23	up	1.61	down	1.92	down	ZDHHC21
7949645a	1.29E-05	1.25	up	1.19	up	1.26	up	1.08	down	ZDHHC24
8131414a	4.13E-05	1.09	up	1.21	down	1.21	up	1.07	up	ZDHHC4
7926916a	9.44E-09	1.67	down	3.22	down	1.96	down	1.31	up	ZEB1
8055624a	1.63E-05	1.40	up	1.19	up	1.11	up	1.30	down	ZEB2
8164464a	6.24E-05	1.06	up	1.20	up	1.22	up	1.49	down	ZER1
8151561a	3.17E-07	1.01	down	1.38	up	1.12	up	1.88	down	ZFAND1
8048478a	2.14E-05	1.11	up	1.15	down	1.23	up	1.05	up	ZFAND2B
7978059a	2.84E-05	1.06	up	1.41	up	1.06	up	1.05	down	ZFHX2
8002692a	1.34E-06	1.05	down	1.41	down	1.09	down	1.55	up	ZFHX3
8147000a	2.48E-05	1.50	down	2.38	down	1.86	down	1.32	up	ZFHX4
7997257a	6.79E-05	1.13	up	1.41	down	1.09	up	1.38	up	ZFP1
8051814a	6.24E-07	1.43	up	1.12	down	1.35	up	1.21	down	ZFP36L2
8163444a	2.71E-06	1.45	down	1.35	up	1.39	down	1.43	down	ZFP37
8067094a	1.77E-05	1.28	up	1.24	up	1.49	up	1.14	down	ZFP64
7996807a	1.95E-06	1.15	down	1.21	down	1.12	down	2.04	up	ZFP90
8111360a	1.84E-07	1.31	up	1.24	up	1.29	up	1.16	down	ZFR
8166500a	1.19E-06	1.13	up	1.47	up	1.06	down	1.13	down	ZFX
8176384a	1.16E-08	1.78	down	8.28	down	2.25	up	11.34	up	ZFY
8106602a	1.12E-05	1.22	down	1.46	down	1.03	down	1.42	up	ZFYVE16

Transcript ID	Arsenic			Chromium		Nickel		Vanadium		Gene Symbol
	p-value	Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
7982812a	2.76E-06	1.09	up	1.29	down	1.27	up	1.23	down	ZFYVE19
7901426a	2.71E-09	1.02	down	1.66	up	1.51	down	1.34	down	ZFYVE9
7992732a	1.93E-06	1.24	up	1.29	down	1.53	up	1.14	up	ZG16B
8066279a	2.89E-05	1.07	down	1.24	down	1.12	down	1.46	up	ZHX3
7969830a	4.87E-09	1.05	down	1.14	up	1.54	up	1.20	down	ZIC2
8000399a	6.50E-07	1.66	up	1.11	up	1.43	up	1.00	down	ZKSCAN2
8124553a	1.29E-06	1.37	up	1.02	up	1.31	up	1.25	up	ZKSCAN4
7928558a	2.07E-06	1.50	down	1.36	down	1.46	down	1.33	up	ZMIZ1
7899943a	3.83E-08	1.01	down	1.46	up	1.23	down	1.17	down	ZMYM1
8173457a	7.45E-06	1.24	up	1.26	down	1.03	up	1.02	down	ZMYM3
8030002a	4.82E-05	1.32	up	1.39	up	1.28	down	1.53	down	ZNF114
8039771a	2.71E-08	1.22	down	1.42	down	1.44	down	1.57	up	ZNF132
8061154a	6.43E-06	1.55	down	1.02	up	1.64	down	1.06	down	ZNF133
8030954a	2.46E-06	1.60	down	1.43	up	1.22	down	2.19	down	ZNF137
8133057a	5.02E-05	1.14	down	1.32	up	1.01	down	1.57	down	ZNF138
8058973a	4.15E-07	1.22	up	1.35	up	1.26	up	1.15	down	ZNF142;BCS1L
8028186a	4.18E-05	1.41	down	1.01	up	1.60	down	1.15	down	ZNF146
8039674a	3.32E-07	1.92	down	1.06	up	1.92	down	1.05	down	ZNF154
8124502a	5.67E-06	1.25	up	1.18	down	1.56	up	1.24	up	ZNF184
7952361a	4.47E-05	1.08	down	1.19	down	1.04	up	1.29	down	ZNF202
8124498a	4.19E-05	1.36	up	1.15	down	2.38	up	1.14	down	ZNF204
7933209a	2.41E-05	1.25	down	1.14	up	1.45	down	1.17	down	ZNF22;RASSF4;C10orf25
7933180a	4.81E-08	1.83	down	1.20	down	2.01	down	1.88	up	ZNF239
8022882a	1.02E-05	1.00	up	1.30	up	1.06	up	1.47	down	ZNF24
8153920a	3.32E-08	1.65	down	1.40	down	1.23	down	1.40	up	ZNF250
8153890a	4.58E-07	1.14	down	1.25	down	1.20	down	1.43	up	ZNF251
8153935a	4.57E-06	1.64	down	1.79	down	1.42	down	1.33	up	ZNF252
8027241a	3.11E-08	1.07	down	1.89	up	1.83	up	5.01	down	ZNF253;ZNF93
7951838a	6.72E-05	1.10	up	1.53	up	1.02	up	1.16	down	ZNF259
7995258a	1.13E-05	1.56	up	1.13	down	1.43	up	1.02	up	ZNF267
8133062a	6.56E-06	1.07	down	1.31	up	1.09	up	1.55	down	ZNF273
8074845a	7.16E-11	2.23	up	1.90	down	2.53	up	5.49	up	ZNF280B
8029368a	7.66E-05	1.28	down	1.22	up	1.35	down	1.10	up	ZNF284
8005110a	5.86E-08	1.10	up	1.38	up	1.10	down	1.50	down	ZNF286A;ZNF286B;TBC1D26
8013305a	2.60E-07	1.08	down	1.41	up	1.18	down	1.61	down	ZNF286A;ZNF286B;TBC1D26
8013026a	5.14E-06	1.75	down	1.06	up	1.52	down	1.12	down	ZNF287
8115196a	4.21E-09	1.23	up	8.33	down	1.01	up	10.36	up	ZNF300
8178275a	3.32E-05	1.10	down	1.16	down	1.28	down	1.69	up	ZNF311
7933186a	3.43E-06	1.08	down	2.28	down	1.10	up	1.44	up	ZNF32
8039006a	1.30E-07	1.72	down	1.88	up	1.53	down	3.85	down	ZNF320
8039013a	9.39E-06	1.14	down	1.35	up	1.02	down	1.53	down	ZNF321
8031949a	3.25E-07	1.24	down	1.20	up	1.20	down	1.16	down	ZNF324B;ZNF584
8039740a	1.19E-05	1.14	down	1.25	up	1.07	down	1.41	down	ZNF329
8066745a	6.32E-05	1.34	down	1.61	down	1.74	down	1.42	up	ZNF334
7927062a	2.71E-05	1.89	down	1.49	down	1.47	down	1.24	up	ZNF33A
8153896a	6.19E-10	1.12	down	1.27	down	1.16	down	1.90	up	ZNF34
8064514a	8.44E-08	1.71	down	1.49	up	2.03	down	1.11	down	ZNF343
8110253a	3.09E-05	1.05	up	1.33	up	1.04	up	1.27	down	ZNF346
8039054a	2.34E-11	1.37	down	2.74	up	1.34	down	4.47	down	ZNF347
7927747a	4.21E-06	1.09	up	1.38	down	1.20	down	1.50	up	ZNF365
8162601a	2.66E-05	1.32	down	1.14	up	1.09	down	1.35	down	ZNF367
7933129a	7.33E-05	1.39	down	1.02	up	1.30	down	1.14	down	ZNF37B
7963774a	1.52E-07	1.39	up	1.05	up	1.74	up	1.75	up	ZNF385A

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8172307a	4.89E-05	1.18	up	1.12	down	1.08	up	1.23	down	ZNF41
8037355a	2.27E-06	1.16	down	1.55	down	1.15	down	1.07	up	ZNF428
8035813a	5.08E-07	1.32	up	2.75	up	2.77	up	5.14	down	ZNF43
8034393a	7.89E-05	1.22	down	1.66	down	1.66	up	1.18	down	ZNF443
8031669a	4.63E-07	1.49	down	1.23	up	1.61	down	1.94	down	ZNF470
8139800a	4.15E-07	1.13	down	1.13	up	3.17	up	1.02	up	ZNF479;LOC643955
8157193a	3.40E-09	1.50	down	1.79	up	1.13	down	1.82	down	ZNF483
7927173a	5.71E-07	1.87	down	1.06	down	1.86	down	1.17	up	ZNF485
8027260a	4.73E-05	1.66	up	1.76	down	2.73	up	4.70	down	ZNF486;ZNF93
7927383a	5.62E-05	1.25	up	1.11	up	1.46	up	1.25	down	ZNF488
8027345a	1.15E-05	1.32	up	1.92	up	1.88	up	2.88	down	ZNF492
8134644a	9.12E-05	1.16	up	1.19	up	1.14	up	1.06	down	ZNF498
7934553a	4.27E-05	1.24	down	1.41	up	1.07	down	1.08	down	ZNF503;C10orf41
8035773a	3.07E-07	2.72	up	4.40	up	4.18	up	9.76	down	ZNF506
8162631a	3.48E-06	1.04	down	1.38	up	1.09	down	1.76	down	ZNF510
8051113a	1.76E-05	1.23	up	1.06	down	1.13	up	1.04	up	ZNF513
8053775a	8.51E-06	1.25	up	1.27	down	1.32	up	1.13	up	ZNF514
8023882a	2.95E-09	1.23	up	2.13	down	1.14	up	1.19	up	ZNF516
7929562a	1.53E-07	1.48	down	1.63	down	1.92	down	1.18	up	ZNF518A
8099364a	1.06E-07	2.13	down	3.20	up	2.23	down	2.53	down	ZNF518B
8030931a	6.58E-07	1.05	down	1.89	up	1.43	up	2.46	down	ZNF528
8031632a	3.27E-08	1.62	up	1.78	up	3.55	up	11.51	down	ZNF542;LOC283788
8031720a	5.32E-05	1.45	down	1.31	up	1.26	down	1.16	down	ZNF543
8031884a	7.11E-05	1.09	down	1.26	up	1.07	down	1.48	down	ZNF544
8039655a	2.14E-05	1.30	down	1.15	up	1.23	down	1.15	down	ZNF550
8024527a	4.67E-08	1.09	up	2.00	up	1.37	up	1.82	down	ZNF556
8033801a	8.44E-07	1.36	down	1.15	up	1.43	down	1.20	down	ZNF562
8148276a	2.60E-08	1.67	up	1.94	up	1.56	up	2.24	down	ZNF572
8039586a	8.07E-05	1.13	up	1.38	down	1.47	up	1.11	up	ZNF582
8031939a	2.33E-05	1.10	down	1.37	up	1.18	down	1.07	down	ZNF584
8036373a	7.05E-06	1.61	down	1.06	down	1.73	down	1.29	down	ZNF585A
7985605a	1.78E-05	1.20	up	1.40	down	1.21	up	1.09	down	ZNF592
7899096a	9.18E-06	1.39	up	1.22	up	1.07	up	1.05	down	ZNF593
8039719a	6.38E-05	1.04	down	1.33	up	1.04	up	1.15	down	ZNF606;LOC100128398
8113761a	1.25E-08	2.00	down	2.36	down	1.86	down	2.74	up	ZNF608
7984203a	6.96E-06	1.05	up	1.38	down	1.04	up	1.26	down	ZNF609
8030914a	4.14E-06	1.36	down	1.18	up	1.57	down	1.20	down	ZNF610
8111129a	1.38E-06	1.60	up	1.47	up	1.43	up	1.16	down	ZNF622
8148658a	3.17E-08	1.52	down	1.39	down	1.28	down	1.78	up	ZNF623
8172379a	4.40E-05	1.20	up	1.13	down	1.37	up	1.07	down	ZNF630
7962794a	1.43E-05	1.33	up	1.23	down	1.18	up	1.81	down	ZNF641
7900438a	2.07E-05	1.24	down	1.42	down	1.31	down	1.48	up	ZNF643
7995033a	4.28E-07	1.37	up	1.17	up	1.35	up	1.12	up	ZNF646
8079198a	7.10E-06	2.08	down	1.31	down	3.42	down	1.47	down	ZNF660;ZNF197
7959751a	1.73E-05	1.16	down	1.16	up	1.03	down	1.17	down	ZNF664
8000974a	7.64E-05	1.30	up	1.08	up	1.09	up	1.20	up	ZNF668
8039680a	8.78E-07	1.33	down	1.66	up	1.14	down	1.73	down	ZNF671
8172274a	2.68E-05	1.16	up	1.46	down	1.26	up	1.03	up	ZNF674
8039070a	2.08E-07	1.13	down	1.53	up	1.15	up	2.39	down	ZNF677
8133042a	2.05E-07	1.01	down	1.02	down	3.15	up	1.09	down	ZNF679
8000910a	2.31E-07	1.33	up	1.04	down	1.17	up	1.15	up	ZNF688
8000924a	1.48E-06	1.31	up	1.11	up	1.28	up	1.06	up	ZNF689
8025968a	1.58E-06	1.14	down	1.28	up	1.08	up	1.45	down	ZNF69

Transcript ID	p-value	Arsenic		Chromium		Nickel		Vanadium		Gene Symbol
		Δ	Reg	Δ	Reg	Δ	Reg	Δ	Reg	
8033746a	1.55E-06	1.27	up	1.45	up	1.83	up	1.75	down	ZNF699
8148941a	2.66E-05	1.16	down	1.27	down	1.08	down	1.36	up	ZNF7;COMMD5
8030950a	8.86E-08	1.62	down	2.18	up	1.36	down	2.32	down	ZNF701
8039010a	1.29E-05	1.37	down	1.45	up	1.11	down	1.36	down	ZNF701/765/813/28/525
8039025a	1.17E-06	1.65	up	1.85	up	3.99	up	2.15	down	ZNF702P
8145829a	9.66E-05	1.04	up	1.23	down	1.01	up	1.16	up	ZNF703
8031675a	5.55E-05	1.16	down	1.23	up	1.09	down	1.03	up	ZNF71
8168589a	1.32E-08	1.21	up	6.99	up	1.16	up	1.09	down	ZNF711
8027285a	9.79E-05	1.12	down	1.30	up	1.08	up	1.74	down	ZNF714
8133018a	2.34E-11	1.22	up	1.17	up	8.81	up	1.29	down	ZNF716
8088911a	6.29E-06	1.09	up	1.84	down	1.51	down	4.59	up	ZNF717;LOC100287163
8027348a	3.74E-09	5.85	up	4.02	down	7.07	up	10.78	up	ZNF730
8098745a	4.48E-05	2.23	down	2.25	up	1.40	down	1.27	down	ZNF732
8035793a	6.41E-06	1.22	down	3.06	up	1.00	up	4.42	down	ZNF737
8000906a	5.46E-05	1.30	up	1.27	up	1.25	up	1.05	up	ZNF764
8000899a	5.38E-07	1.30	up	1.24	up	1.30	up	1.19	down	ZNF768
7987361a	8.69E-05	1.12	down	1.28	down	1.10	up	1.60	down	ZNF770
7997896a	4.12E-07	1.32	up	1.35	up	1.72	up	1.33	down	ZNF778
7997904a	3.43E-07	1.25	up	1.65	up	2.46	up	1.47	down	ZNF778
8036430a	7.17E-07	1.00	up	1.24	down	1.01	up	1.37	up	ZNF781
8025992a	2.34E-11	1.09	down	5.37	up	1.39	down	11.64	down	ZNF788
8039692a	2.20E-06	1.67	down	1.90	up	1.33	down	1.70	down	ZNF814;ZNF552;ZNF587
8002618a	1.30E-05	1.04	up	1.38	down	1.04	up	1.28	up	ZNF821
8035789a	4.82E-05	1.44	down	1.31	up	1.56	down	1.06	down	ZNF826
8103025a	9.34E-09	1.13	down	1.86	down	1.14	down	1.89	up	ZNF827
8025984a	2.25E-09	1.96	down	1.21	up	1.89	down	2.21	down	ZNF844
8093332a	1.20E-07	1.02	up	1.69	up	1.52	up	4.39	down	ZNF876P
8027254a	8.00E-06	1.40	down	1.57	up	1.23	down	2.49	down	ZNF90;ZNF93
8027247a	9.02E-10	1.13	down	7.70	up	1.23	up	13.36	down	ZNF93
8006627a	4.98E-07	1.26	up	1.05	up	1.26	up	1.62	down	ZNHIT3;MYO19
7917359a	3.35E-06	1.02	down	1.21	up	1.37	down	1.01	down	ZNHIT6
7997247a	1.62E-05	1.24	up	1.29	down	1.40	up	1.36	up	ZNRF1
7916969a	2.64E-05	1.04	down	1.23	up	1.20	down	1.05	down	ZRANB2
8117640a	9.33E-08	1.46	up	1.34	up	1.32	up	1.48	down	ZSCAN16
8039730a	8.39E-08	1.06	down	1.52	up	1.21	up	1.43	down	ZSCAN18
7985577a	1.24E-05	1.08	up	1.21	down	1.14	up	1.17	down	ZSCAN2
8134689a	1.29E-07	1.22	up	1.14	up	1.35	up	1.03	down	ZSCAN21;ZNF3
8039577a	3.59E-05	1.10	down	1.42	up	1.07	up	1.21	down	ZSCAN5A
8031629a	3.53E-07	1.31	down	1.79	up	1.01	up	1.17	down	ZSCAN5C
8105506a	3.57E-10	1.61	down	1.47	down	1.45	down	1.56	up	ZSWIM6
7951734a	2.19E-09	1.19	down	1.43	up	1.29	down	1.29	down	ZW10
7984330a	2.48E-05	1.00	down	1.26	down	1.11	up	1.27	down	ZWILCH
7901497a	2.34E-11	1.04	down	2.49	up	1.00	down	1.47	down	ZYG11A
8136918a	5.44E-06	1.04	down	1.19	down	1.28	down	1.21	up	ZYX
8011542a	9.14E-05	1.15	up	1.18	up	1.05	up	1.21	down	ZZEF1

Complete list of all genes meeting the one-way ANOVA criteria with a Benjamini-Hochberg corrected p-value of less than or equal to 0.0005 in at least one of the four metal-transformed clones.

Supplementary Table 2 Differentially Expressed Genes in As-Transformed Clones

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8085608a	2.65E-04	1.69	down	HACL1
8061324a	6.18E-04	1.91	down	XRN2
8065469a	9.32E-04	1.95	down	ABHD12
7936439a	5.01E-03	2.19	down	AFAP1L2
8056005a	9.86E-05	1.87	up	ACVR1
8045587a	7.73E-04	2.84	up	ACVR2A
7957386a	2.40E-03	2.84	up	ACSS3
7975598a	3.33E-03	1.51	up	ACOT1
7975602a	7.37E-03	1.64	up	ACOT2
7932214a	2.80E-02	1.60	down	ACBD7
8112342a	1.17E-02	2.53	down	ADAMTS6
7985522a	6.63E-03	1.89	down	ADAMTSL3
8034084a	2.99E-02	1.59	up	AP1M2
8069178a	7.10E-03	2.12	up	ADARB1
8110158a	4.06E-03	1.59	down	ARL10
7925929a	1.11E-02	2.72	up	AKR1C3
8023528a	1.11E-02	1.71	down	ALPK2
7957452a	1.96E-02	2.77	up	ALX1
8167998a	1.76E-02	2.03	up	AR
8083240a	3.77E-03	3.51	up	AGTR1
8095986a	2.44E-02	1.79	down	ANXA3
7927367a	1.58E-02	2.00	down	ANXA8;ANXA8L1;ANXA8L2
7933312a	1.02E-02	3.23	down	ANXA8L1;ANXA8L2
7927307a	1.71E-02	2.37	down	ANXA8L2;ANXA8L1
7960438a	1.79E-04	3.84	down	ANO2
8073088a	1.94E-03	2.25	up	APOBEC3G
8171148a	5.99E-03	1.87	up	ARSD
8115144a	2.17E-02	1.50	down	ARSI
8141150a	9.29E-03	1.52	down	ASNS
8156575a	1.39E-03	1.56	up	ATMIN
8179762a	1.92E-03	1.53	up	ATP6V1G2;BAT1
8017885a	9.05E-03	2.16	up	ABCA8
8060627a	6.63E-04	2.11	down	ATRN
8141206a	1.34E-02	2.33	up	BAIAP2L1
8046147a	3.08E-02	1.84	up	BBS5;KBTBD10
8068671a	2.44E-02	1.92	down	BACE2
8116635a	6.74E-04	1.65	up	BPHL;LOC100130927
7945349a	2.91E-05	1.71	up	BET1L
8132250a	1.82E-02	1.52	down	BMPER
8035304a	3.29E-02	2.59	up	BST2
7979241a	3.11E-02	2.07	up	BMP4
8054945a	8.77E-05	1.63	up	BIN1
8060988a	1.04E-04	2.41	down	BTBD3
8117476a	1.28E-02	1.76	up	BTN3A3
7901993a	2.77E-03	3.31	up	CACHD1

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
7997504a	4.73E-03	3.24	down	CDH13
7996819a	4.67E-03	1.75	up	CDH3
8104663a	4.03E-02	2.89	up	CDH6
7999553a	2.02E-02	1.56	up	CPPED1
8140579a	3.96E-04	5.22	up	CACNA2D1
8009334a	9.12E-03	2.19	down	CACNG4
7939642a	1.85E-03	1.83	up	CREB3L1
8052735a	6.18E-04	1.52	up	CNRIP1
7958202a	9.66E-03	2.38	down	CHST11
8060839a	1.14E-03	1.62	down	CRLS1
8030448a	4.44E-02	2.46	down	CPT1C
8010778a	4.61E-03	1.50	up	CSNK1D
8047403a	6.06E-03	1.57	up	CASP10
7951408a	9.28E-03	1.82	up	CARD16
7949650a	1.87E-02	1.58	down	CTSF
8060772a	8.02E-04	1.74	down	CDS2
8060675a	5.99E-03	1.52	down	CDC25B
8003553a	2.26E-04	2.15	up	CENPBD1
8112376a	2.26E-04	1.79	down	CENPK
8175531a	2.60E-03	2.61	up	CDR1;YTHDC2
8006433a	1.59E-02	2.28	up	CCL2
8049471a	2.65E-03	2.08	down	CXCR7
7987012a	5.62E-03	1.74	up	CHRFAM7A;CHRNA7
7953936a	2.98E-02	3.22	up	C12orf59
7964677a	2.29E-03	1.60	up	C12orf66
7999903a	1.86E-04	1.53	up	C16orf88
8022310a	1.65E-04	7.15	up	C18orf58
8061305a	4.77E-03	1.51	down	C20orf19
8064637a	7.63E-04	2.07	down	C20orf194
8065433a	1.02E-03	2.43	down	C20orf3
8064833a	1.66E-03	1.53	down	C20orf30
8061019a	2.41E-04	2.08	down	C20orf7
8061129a	7.35E-04	1.76	down	C20orf72
8065280a	1.60E-02	1.87	down	C20orf74
8060977a	1.66E-02	1.50	down	C20orf94
8067932a	1.13E-02	2.48	up	C21orf34
8083599a	1.34E-02	2.30	up	C3orf55
8083223a	1.30E-02	1.89	up	C3orf58
8087374a	3.02E-03	1.61	down	C3orf62;USP4
8088680a	5.10E-03	1.81	down	C3orf64
8105661a	2.22E-03	1.67	down	C5orf44
8105647a	1.81E-03	1.62	down	C5orf44
8138647a	5.34E-03	1.58	up	C7orf31
8135734a	4.05E-02	1.70	up	C7orf58
8149315a	3.48E-04	2.56	down	C8orf15
8154381a	2.63E-02	1.78	up	C9orf150

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8164008a	1.97E-02	1.65	down	C9orf45
8044391a	3.33E-02	1.61	up	MERTK
8112731a	2.46E-02	2.27	down	F2RL2
8056343a	2.56E-03	3.31	up	COBLL1
8055208a	4.13E-04	1.51	up	CCDC115
7932082a	1.11E-02	2.56	up	CCDC3
8023401a	2.77E-03	2.84	up	CCDC68
7899346a	4.53E-02	1.68	down	CCDC72
8089544a	3.14E-02	1.71	down	CCDC80
7972750a	2.68E-02	1.52	down	COL4A1
7970033a	3.19E-03	1.63	down	COL4A2;STK24
8057620a	3.03E-02	2.68	up	COL5A2
7953603a	8.55E-03	2.24	up	C1S
8179331a	4.75E-03	1.57	up	C2
8003217a	7.63E-04	1.62	up	COX4NB
8065256a	4.31E-04	1.71	down	CRNKL1
7951662a	1.31E-02	4.55	up	CRYAB
8061138a	1.08E-03	1.98	down	CSRP2BP
8140955a	7.19E-03	1.58	down	CDK6
8065403a	4.66E-03	1.56	down	CST3
8146967a	2.13E-02	2.46	up	CRISPLD1
7898655a	1.06E-02	1.85	up	CDA
8051583a	1.34E-02	7.07	down	CYP1B1
7974689a	7.17E-03	1.68	down	DACT1
8064601a	1.49E-03	1.70	down	DDR1
8160559a	4.17E-03	1.80	up	DDX58
8112081a	6.49E-04	1.52	down	DHX29
8156199a	2.82E-02	2.26	down	DAPK1
8059413a	4.00E-02	2.82	up	DOCK10
8112260a	3.18E-04	1.61	down	DEPDC1B
8023727a	1.65E-03	6.19	up	DSEL
8022711a	2.40E-02	5.42	up	DSC2
8022692a	4.21E-02	8.15	up	DSC3
8061114a	1.68E-04	1.72	down	DSTN
7999419a	5.77E-03	1.71	up	DEXI
7986685a	3.62E-03	1.61	up	DEXI;LOC100133165
8143154a	2.95E-02	2.17	down	DGKI;DGKi
8168691a	3.81E-03	3.79	down	DIAPH2
8112312a	4.13E-04	1.55	down	DIMT1L
8179819a	6.18E-04	1.72	up	DDAH2
7931683a	7.86E-03	2.16	down	DIP2C
8056222a	1.65E-04	6.50	up	DPP4
8165438a	5.07E-03	1.72	down	DPP7
7906878a	8.72E-04	5.20	up	DDR2
7906900a	6.68E-04	4.33	up	DDR2
8046373a	6.90E-03	1.64	up	DLX1

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
7985147a	1.31E-03	2.31	down	DNAJA4
7902043a	6.13E-03	1.51	up	DNAJC6;LOC645195
8061211a	2.18E-03	1.67	down	DTD1
7924450a	2.02E-02	2.49	up	DUSP10
8046792a	7.70E-03	1.50	up	DUSP19
7938128a	4.00E-03	1.68	up	DNHD1
7900159a	1.63E-03	1.71	down	DNALI1
8008706a	3.62E-05	1.69	up	DYNLL2
7976698a	1.32E-03	2.12	up	EML1
8014063a	8.61E-03	2.03	up	EVI2B
8061428a	8.69E-03	1.85	down	ENTPD6
8122099a	4.01E-02	2.11	up	ENPP1
8152522a	1.14E-02	2.17	up	ENPP2
8041225a	6.18E-04	1.71	up	EHD3
8123920a	2.40E-03	1.65	up	ELOVL2
8127767a	4.77E-02	2.51	up	ELOVL4
8112007a	6.71E-03	1.94	down	EMB
8139840a	2.13E-02	1.76	down	ERV3
8107044a	2.49E-02	1.83	down	ERAP2
8041781a	2.33E-02	1.57	up	EPAS1
8092523a	3.68E-03	2.03	up	EHHADH
8132369a	1.67E-03	2.24	up	EPDR1
8095723a	7.93E-03	3.33	up	EPGN
8138289a	8.52E-04	2.77	up	ETV1
7993298a	5.62E-03	1.54	up	ERCC4
8112285a	1.86E-04	1.55	down	ERCC8
7951545a	3.73E-03	2.02	down	EXPH5
8063187a	2.43E-02	2.01	down	EYA2
7904948a	4.54E-02	1.51	up	FAM108A1
8146533a	3.83E-03	1.87	up	FAM110B
7940147a	5.75E-03	1.57	down	FAM111B
8173041a	1.68E-02	1.81	up	FAM120C
8169995a	3.12E-03	1.68	up	FAM122C
8101728a	3.41E-02	1.68	up	FAM13A
8046895a	3.65E-04	6.18	up	FAM171B
7991453a	2.29E-02	1.66	up	FAM174B
7964631a	2.13E-02	1.55	up	FAM19A2
8022283a	1.14E-03	4.55	up	FAM38B
8022295a	1.07E-04	6.56	up	FAM38B2
8127778a	4.48E-04	1.86	up	FAM46A
8174767a	2.33E-02	3.66	down	FAM70A
8064581a	1.27E-03	1.70	down	FASTKD5;UBOX5
7948630a	1.05E-02	1.55	down	FADS3
8144239a	3.61E-02	1.72	down	FBXO25
8152703a	4.53E-02	1.78	up	FBXO32
7917954a	2.21E-03	3.33	up	FRRS1

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8056257a	2.13E-03	3.50	up	FAP
8073775a	2.54E-02	1.97	down	FBLN1
8064432a	6.06E-03	1.65	down	FKBP1A
8057045a	9.74E-04	1.72	up	FKBP7
8179688a	3.35E-04	1.58	up	FLOT1
8023995a	2.63E-02	1.57	down	FSTL3
8054045a	6.55E-04	1.56	up	FAHD2B;FAHD2A;LOC729234
8129071a	3.64E-03	2.41	up	FRK
8131069a	4.38E-03	1.50	up	GPER
8045336a	5.57E-03	1.57	up	GPR39;LYPD1
7999909a	3.06E-04	3.09	up	GPRC5B
8003410a	4.89E-03	1.57	up	GALNS
8041542a	5.98E-04	1.54	up	GALM
8042283a	4.24E-03	1.56	up	HSPC159
8146945a	9.23E-03	1.61	up	GDAP1
8121749a	4.44E-04	3.18	up	GJA1;IFT140
7936494a	7.94E-04	6.34	down	GFRA1
8061373a	3.19E-03	1.66	down	GZF1
7997414a	4.28E-03	1.50	up	GAN
8061471a	2.19E-03	1.92	down	GINS1
8159900a	3.18E-02	1.50	down	GLIS3
8046283a	2.12E-03	1.66	up	GAD1
7901460a	4.30E-02	1.95	down	GPX7
8045816a	3.11E-05	1.62	up	GPD2
7922104a	1.18E-03	1.63	up	GCSH
8131844a	9.76E-03	3.88	up	GNPMB
7965941a	7.11E-03	1.84	up	GLT8D2
7981752a	4.28E-02	1.64	down	GOLGA8D;GOLGA8E;GOLGA8G;GOLGA8F;GOLGA8C
8081758a	9.66E-03	1.88	up	GRAMD1C
8046003a	6.28E-03	5.94	up	GCA
7970329a	1.87E-03	2.22	down	GAS6
8171079a	3.64E-03	1.51	up	GTPBP6
8134257a	1.18E-03	3.84	up	GNG11
8117034a	1.33E-02	1.70	up	GMPR
7917561a	2.39E-02	1.91	up	GBP4
8046906a	1.06E-02	7.74	up	GULP1
7928107a	1.68E-02	2.48	down	H2AFY2
7975076a	1.63E-02	1.78	up	HSPA2
8057898a	6.95E-03	1.65	up	HECW2
8089911a	1.56E-02	2.21	up	HCLS1
8117343a	1.20E-03	1.55	up	HFE
7898677a	1.61E-02	1.61	up	HS6ST1
7946988a	7.18E-03	1.56	up	HPS5
7902282a	1.22E-03	1.65	up	HLA3
8127743a	3.94E-02	1.79	up	HMG3
8040238a	2.77E-03	1.68	up	HPCAL1

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
7988124a	3.18E-04	2.37	down	HISPPD2A
8124492a	3.25E-02	1.83	up	HIST1H2BK
8117415a	9.03E-03	1.59	up	HIST1H3E
8117589a	9.37E-03	1.73	up	HIST1H3H
7919584a	1.72E-02	1.77	up	HIST2H2BF;HIST2H2BA;HIST2H2BE
7919627a	2.10E-02	1.96	up	HIST2H4A;HIST2H4B
8003116a	2.48E-03	1.61	up	HSDL1
7933638a	1.46E-02	1.53	down	FLJ31958
8144228a	7.17E-03	1.73	up	FLJ36840
7918620a	1.39E-03	1.71	up	FLJ36116
8064868a	1.42E-03	2.38	down	RP5-1022P6.2
8179704a	2.88E-03	1.65	up	IER3
7922018a	7.35E-04	2.84	down	ILDR2
8105545a	8.41E-05	1.82	down	IPO11
8117120a	4.92E-05	1.57	up	ID4
8060611a	2.02E-03	1.70	down	ITPA
8150906a	6.80E-03	1.55	down	IMPAD1
8008151a	2.68E-02	1.96	down	IGF2BP1
8046695a	2.38E-02	3.29	up	ITGA4;CERKL
7937335a	7.13E-04	3.07	up	IFITM1
8056285a	4.00E-03	2.54	up	IFIH1
7976443a	2.89E-04	2.51	up	IFI27
7929065a	8.81E-03	1.76	up	IFIT1
7929047a	2.13E-02	1.74	up	IFIT2
8043995a	9.62E-03	2.32	up	IL1R1
8169580a	2.38E-02	1.61	up	IL13RA1
8131803a	7.35E-04	1.93	up	IL6
8112139a	1.65E-04	1.65	down	IL6ST
7956878a	1.80E-02	3.88	up	IRAK3
7921033a	2.45E-02	1.55	down	IQGAP3
8059878a	2.76E-02	1.54	down	IQCA1;LOC100129258
8058552a	1.06E-02	1.51	up	IDH1
8068024a	2.33E-02	2.03	up	JAM2
7972682a	2.02E-02	1.65	down	KDEL1
8015387a	3.19E-03	5.56	down	KRT17
8005449a	4.13E-04	4.76	down	KRT17
8013042a	3.39E-03	3.08	down	KRT17
7990941a	4.12E-02	1.58	down	KIAA1920;LOC100291610;LOC390627;LOC440297
8079237a	5.03E-03	1.57	down	KIF15
8065089a	1.18E-02	2.18	down	KIF16B
7929078a	1.37E-04	1.66	down	KIF20B
8156160a	1.43E-02	1.62	down	KIF27
8045637a	4.40E-03	3.48	up	KIF5C
8105523a	1.86E-04	1.52	down	KIF2A
8045539a	1.38E-03	2.43	up	KYNU
8022176a	3.92E-02	1.75	up	LAMA1

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8092707a	4.34E-02	1.63	down	LEPREL1
8049542a	3.91E-02	1.69	up	LRRFIP1
8092839a	3.58E-03	1.98	up	LRRC15
8117243a	2.22E-02	1.92	up	LRRC16A
8135218a	2.12E-02	2.27	up	LRRC17
8075310a	1.30E-02	1.70	down	LIF;MGC20647
8111677a	6.23E-04	1.76	up	LIFR
7948332a	2.48E-03	2.39	up	LPXN
8075637a	2.08E-03	2.05	down	LARGE
8092541a	3.65E-04	6.30	up	LIPH
8027793a	1.05E-02	1.60	down	LSR
8045674a	1.15E-02	3.46	up	LYPD6
8045664a	1.42E-02	3.43	up	LYPD6B
8178059a	1.93E-03	1.75	up	LY6G5B;CSNK2B
7917276a	1.22E-02	2.16	up	LPAR3
8110841a	7.74E-03	1.94	up	LPCAT1
8180086a	2.26E-04	2.15	up	HLA-DMA;HLA-DMB
7994659a	1.10E-02	1.50	up	MVP
8129254a	3.39E-03	3.87	up	MAN1A1
7951271a	2.26E-02	4.30	up	MMP1
8062123a	1.67E-03	2.65	down	MMP24
8064967a	1.22E-03	1.63	down	MKKS
8091972a	1.92E-02	2.33	up	MECOM
7989146a	3.16E-02	1.62	up	MNS1
7952205a	3.00E-02	1.51	down	MCAM
8083494a	1.75E-02	2.90	up	MME
8112182a	8.41E-05	1.81	down	MIER3
7992071a	1.72E-02	1.75	down	MSLN
7995797a	4.99E-02	1.74	down	MT1E
7995793a	1.53E-02	1.58	down	MT1L
7954196a	3.80E-02	1.63	up	MGST1
8047926a	6.72E-03	1.77	up	MAP2
8060813a	2.56E-03	1.71	down	MCM8
8129214a	3.86E-03	1.61	up	MCM9
8179139a	1.39E-03	1.63	up	MRPS18B
8105181a	4.55E-02	1.56	up	MRPS30
8105436a	3.62E-05	2.11	down	MAP3K1
8084589a	2.83E-03	1.62	up	MAP3K13
8129804a	2.06E-02	2.59	up	MAP3K5
8166925a	4.40E-02	2.40	up	MAOA
7993453a	2.73E-02	1.51	down	MPV17L
7917283a	1.66E-02	1.80	up	MCOLN2
7917304a	4.17E-02	1.86	up	MCOLN3
7986293a	6.55E-03	4.14	up	MCTP2
8029273a	1.00E-02	1.66	down	MEGF8
8151334a	7.67E-03	2.00	up	MSC

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
7927827a	8.31E-03	2.73	up	MYPN
8111153a	4.65E-03	1.71	up	MYO10
8065510a	1.34E-02	1.68	down	NANP
8061262a	1.27E-03	1.85	down	NAT5
8002303a	1.87E-02	1.55	up	NQO1
8116610a	3.07E-04	1.58	up	NQO2;LOC401233
8105311a	4.88E-04	1.85	down	NDUFS4
8065372a	1.14E-03	2.13	down	NAPB
8123936a	1.96E-02	2.10	up	NEDD9
7957298a	3.39E-03	2.91	up	NAV3
8043909a	4.62E-04	2.49	up	NPAS2
8064438a	3.54E-04	1.64	down	NSFL1C
7978644a	5.75E-03	1.55	up	NFKBIA
8085431a	2.53E-02	1.97	down	NUP210
8050497a	2.48E-03	1.60	up	OSR1
8098441a	5.08E-04	2.61	down	ODZ3
7982294a	1.42E-02	1.50	down	OTUD7A;MGC131512
7947338a	2.29E-03	4.04	down	PAX6
7904843a	1.15E-02	2.16	down	PDZK1;PDZK1P1
7947512a	2.33E-02	2.55	down	PAMR1
8107133a	3.33E-03	1.58	down	PAM
8105633a	9.36E-05	1.72	down	PPWD1
7971077a	1.42E-02	3.27	up	POSTN
8080306a	7.09E-04	1.53	down	PHF7
7930980a	2.78E-02	2.18	down	PPAPDC1A
8102532a	1.42E-02	1.88	up	PDE5A
8056151a	1.04E-02	1.67	up	PLA2R1
7908351a	6.26E-03	1.54	up	PLA2G4A
7948987a	1.61E-02	1.67	up	PLA2G16
8060897a	2.62E-02	2.13	down	PLCB4
8091306a	1.16E-02	2.45	up	PLSCR4
8166049a	2.26E-03	1.63	up	PRPS2
7994928a	2.91E-05	1.59	up	PHKG2
8061447a	4.03E-03	1.75	down	PYGB
8140620a	2.56E-03	1.83	up	PCLO
7903214a	1.24E-02	1.62	up	LPPR4
7951351a	5.75E-03	1.64	up	PDGFD
8144802a	7.26E-03	2.18	up	PDGFRL
8041644a	3.15E-02	1.54	up	PLEKHH2
8129985a	2.04E-02	1.65	down	PLAGL1
7923991a	4.93E-03	1.70	down	PLXNA2
7898057a	8.74E-03	2.18	down	PDPN
8112202a	6.23E-05	2.39	down	PLK2
8061171a	4.09E-04	1.87	down	POLR3F;C20orf12
8106820a	3.79E-02	2.02	up	POLR3G
8074714a	4.48E-02	1.71	down	POM121L1P;POM121L10P;POM121L9P;POM121L8P

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8000738a	2.07E-04	1.76	up	KCTD13
7909730a	9.28E-03	1.98	up	KCNK2
7923043a	3.47E-03	2.32	up	KCNT2
8009502a	6.04E-03	1.72	up	KCNJ2
7957126a	2.71E-02	1.56	up	KCNMB4
8120654a	1.76E-02	2.67	up	KCNQ5
8172493a	6.38E-03	2.07	up	KCND1
8051785a	1.56E-02	1.62	up	KCNG3
8056303a	1.72E-02	4.53	up	KCNH7
8040278a	1.68E-04	2.21	up	PQLC3
8121257a	1.57E-02	1.65	up	PRDM1
7906954a	3.65E-04	3.05	up	PBX1
8157890a	2.70E-03	1.81	down	PBX3
7962375a	3.96E-02	2.90	down	PRICKLE1
8172561a	1.67E-03	1.53	up	PRICKLE3
8060758a	5.43E-03	1.53	down	PRNP
8111490a	3.40E-02	1.83	up	PRLR
8064844a	5.08E-04	1.77	down	PCNA
7902527a	3.51E-02	1.92	up	PTGFR
7922976a	9.23E-03	1.56	up	PTGS2
8102468a	1.77E-04	3.89	up	PRSS12
8060379a	2.48E-03	1.54	down	PSMF1
8083749a	4.47E-02	1.74	up	PPM1L
8134351a	4.11E-02	1.77	up	PPP1R9A
8082869a	7.27E-03	1.62	down	PPP2R3A
8060539a	2.53E-03	1.61	down	PTPRA;VPS16
7964872a	6.58E-03	2.34	down	PTPRB
8080810a	8.62E-03	1.96	down	PTPRG
8059186a	1.71E-02	1.55	up	PTPRN
8097449a	3.86E-02	1.71	up	PCDH10
8108697a	4.95E-02	2.48	down	PCDHB5
7938231a	2.32E-02	1.55	up	PPFIBP2
8001030a	4.00E-03	1.66	up	PYCARD
7954382a	2.62E-02	1.52	down	PYROXD1;RECQL
8001147a	2.25E-03	1.63	up	RAB43;ISY1
8180144a	2.11E-03	1.56	up	RGL2
8166243a	1.97E-02	2.03	up	REPS2
8161945a	3.73E-03	2.04	down	RASEF
7908409a	4.69E-02	1.74	up	RGS2
8065230a	7.43E-03	1.72	down	RBBP9
7940775a	4.19E-02	1.79	up	RARRES3
8129458a	3.19E-03	2.37	up	ARHGAP18
8096160a	3.00E-03	2.05	up	ARHGAP24
8136987a	4.69E-02	1.54	down	ARHGEF5;ARHGEF5L;LOC728377
8053142a	8.41E-05	1.77	up	RTKN
7977507a	2.22E-02	1.51	up	RPPH1

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8123717a	6.58E-03	1.51	up	RPP40
7902023a	4.78E-02	1.95	up	RAVER2
8003348a	7.63E-04	1.52	up	RNF166
7994939a	6.18E-04	1.65	up	RNF40
8078330a	7.34E-03	2.11	down	RBMS3
7993274a	9.26E-04	1.57	up	RUNDC2A
7994576a	8.92E-04	1.67	up	RUNDC2C;RUNDC2A;RUNDC2B
7920278a	1.63E-02	1.79	up	S100A3
8058091a	3.17E-03	3.21	up	SATB2
8006531a	7.10E-03	2.19	up	SLFN5
8057394a	7.36E-04	2.55	up	SESTD1
8061186a	9.94E-04	1.69	down	SEC23B
8019486a	3.12E-02	1.53	down	SECTM1
8059345a	6.84E-03	1.64	up	SCG2
7983527a	7.51E-03	1.74	up	SEMA6D
8042696a	1.76E-03	1.52	up	SPR
8003722a	6.23E-05	2.23	up	SRR;TSR1
8178164a	9.01E-03	1.53	up	STK19;LOC100294221
7946365a	3.27E-02	1.65	down	STK33
8060427a	7.10E-03	1.71	down	STK35
8128079a	1.17E-02	1.60	up	SRrp35
8123609a	3.18E-03	1.58	up	SERPINB9
8059376a	2.89E-04	3.33	up	SERPINE2
8112337a	1.34E-03	1.63	down	SFRS12IP1
8120833a	2.56E-02	1.94	up	SH3BGRL2
8072847a	5.07E-03	1.51	up	SH3BP1;PDXP
8003060a	3.15E-03	2.65	down	SDR42E1
8179851a	8.47E-05	1.59	up	NEU1
8060418a	4.71E-03	2.02	down	SIRPA
8031825a	2.19E-02	1.52	down	LOC100288322;ZNF587
8068496a	2.40E-03	1.71	down	SIM2
7906613a	2.93E-02	1.50	down	SLAMF7
8094301a	4.80E-04	3.79	up	SLIT2
8112409a	1.02E-03	1.67	down	SGTB
8061075a	7.94E-04	1.75	down	SNRPB2
7981945a	6.58E-04	2.23	down	SNRPN
7982098a	2.80E-02	2.50	down	SNORD109A;SNORD109B
7981970a	1.03E-02	2.06	down	SNORD116-11
7981974a	1.32E-03	2.14	down	SNORD116-13
7981992a	1.61E-02	1.75	down	SNORD116-22
7981994a	3.91E-02	1.93	down	SNORD116-23
7981998a	2.95E-02	1.58	down	SNORD116-25
7982004a	2.05E-02	1.60	down	SNORD116-28
7982006a	1.56E-02	1.65	down	SNORD116-29
7981955a	3.12E-02	2.17	down	SNORD116-4;SNRPN
8025498a	4.15E-02	1.51	down	SNORA70;RPL10

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
7994889a	2.46E-03	1.50	up	SRCAP
8104930a	3.91E-02	1.73	up	SLC1A3
8094960a	4.83E-03	1.78	down	SLC10A4
8090214a	7.07E-03	1.85	up	SLC12A8
8059538a	1.63E-02	1.66	up	SLC19A3
7904226a	3.54E-02	1.83	up	SLC22A15
8145291a	2.18E-02	1.66	down	SLC25A37
7910618a	3.83E-02	1.54	down	SLC35F3
7962559a	2.49E-02	1.78	up	SLC38A4
8172425a	6.82E-03	5.45	down	SLC38A5
8112121a	7.40E-05	2.00	down	SLC38A9
8018082a	7.35E-04	1.52	up	SLC39A11
8101992a	2.86E-02	3.14	up	SLC39A8
8064613a	3.30E-03	2.24	down	SLC4A11
8057677a	7.10E-03	2.48	up	SLC40A1
8013616a	1.27E-02	1.64	up	SLC46A1;SARM1;TMEM199
7986214a	2.53E-03	1.66	down	SLCO3A1
8113369a	3.03E-03	2.43	up	SLCO4C1
7944667a	2.04E-02	1.66	up	SORL1
8065165a	2.44E-03	1.64	down	SNX5
8012247a	1.36E-03	1.61	up	SAT2
8010061a	2.22E-02	1.59	up	SPHK1
7903393a	1.70E-02	1.63	down	S1PR1
8138689a	8.03E-03	2.90	up	SKAP2
8081219a	6.10E-04	2.18	up	ST3GAL6
7968892a	1.14E-02	1.80	down	SERP2
7983512a	3.05E-02	1.76	up	SQRDL
8064375a	2.23E-03	1.79	down	SRXN1
8105353a	2.91E-05	1.68	down	SKIV2L2
7957338a	8.91E-03	1.75	up	SYT1
8147461a	3.49E-02	3.37	up	SDC2
8152606a	1.04E-02	1.65	up	SNTB1
8101762a	2.11E-03	3.31	up	SNCA
8178977a	7.87E-03	1.98	up	TAPBP
8065018a	6.55E-04	1.92	down	TASP1
8136645a	2.02E-03	1.67	down	TAS2R4
8064336a	2.55E-03	1.66	down	TBC1D20
8123961a	2.89E-04	1.57	up	TBC1D7
8150138a	3.63E-02	2.13	up	TEX15
8131600a	5.21E-03	2.37	up	TSPAN13
8064939a	6.61E-03	3.19	down	TMX4
8075857a	2.81E-02	1.60	up	TST
8130867a	4.78E-03	6.04	down	THBS2
8169073a	4.93E-02	1.87	down	TMSB15B;H2BFXP
8007008a	1.10E-02	1.53	up	THRA;NR1D1
8096411a	6.68E-04	1.59	up	TIGD2

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8072626a	4.93E-02	2.53	down	TIMP3
8141016a	1.54E-02	2.77	up	TFPI2
8013771a	2.96E-03	2.10	up	TLCD1
8174228a	7.93E-03	1.59	up	TCEAL8
8023415a	9.53E-03	4.09	up	TCF4
7909789a	1.34E-02	1.61	down	TGFB2
8156826a	3.31E-03	1.64	down	TGFBR1
7944082a	2.95E-02	1.66	down	TAGLN
7954985a	1.22E-03	2.19	down	TMEM117
8098041a	3.32E-02	1.67	up	TMEM144
7993807a	2.41E-02	1.51	up	TMEM159
8106170a	3.47E-03	1.88	up	TMEM171
8044417a	6.18E-04	1.63	up	TMEM87B
8057803a	4.33E-02	1.77	up	TMEFF2
8152453a	3.85E-03	2.78	up	TRPS1
8012953a	5.43E-03	1.73	up	TRIM16
8005475a	7.17E-03	2.24	up	TRIM16L
8117321a	7.03E-05	1.90	up	TRIM38
8064879a	3.21E-03	1.60	down	TRMT6
8167835a	1.75E-03	2.17	up	TRO
7983734a	2.62E-02	2.24	down	TMOD2
8059177a	6.18E-03	1.58	down	TUBA4A
8121838a	7.87E-03	1.75	up	TPD52L1
7952249a	1.84E-02	1.62	down	USP2
7972369a	5.55E-03	1.59	down	UGGT2
8045835a	1.30E-02	1.97	up	GALNT5
8086352a	1.51E-03	1.75	down	ULK4
8091678a	3.97E-02	1.67	up	VEPH1
8154100a	5.11E-04	2.57	down	VLDLR
7960544a	3.18E-04	1.56	up	VAMP1;TAPBPL
7962689a	1.64E-02	1.62	up	VDR
8138277a	1.13E-03	3.03	up	VWDE
8138258a	1.86E-02	1.92	up	VWDE
8089596a	1.99E-02	1.63	down	WDR52
8048870a	4.74E-02	1.76	up	WDR69
8126952a	2.85E-04	1.93	down	WTAP
8149307a	1.86E-04	1.64	down	XKR6
8074773a	9.36E-04	1.51	up	YDJC
8089701a	7.33E-03	3.17	up	ZBTB20
8164002a	2.29E-03	1.50	down	ZBTB26
7926916a	1.13E-02	1.67	down	ZEB1
8061154a	4.65E-03	1.55	down	ZNF133
8030954a	1.48E-02	1.60	down	ZNF137
8039674a	3.19E-03	1.92	down	ZNF154
7938183a	4.13E-02	2.62	down	ZNF215
7933180a	1.03E-02	1.83	down	ZNF239

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8153920a	2.58E-03	1.65	down	ZNF250
8153935a	1.74E-02	1.64	down	ZNF252
7995258a	2.77E-03	1.56	up	ZNF267
8074845a	4.09E-03	2.23	up	ZNF280B
8013026a	7.49E-04	1.75	down	ZNF287
7927062a	6.06E-03	1.89	down	ZNF33A
8064514a	3.39E-03	1.71	down	ZNF343
8028194a	1.07E-02	1.60	down	ZNF382
8157193a	1.34E-02	1.50	down	ZNF483
7927173a	7.94E-04	1.87	down	ZNF485
8027304a	3.75E-02	1.64	down	ZNF493
8099364a	1.63E-02	2.13	down	ZNF518B
8031732a	1.20E-02	1.56	down	ZNF547;TRAPPC2P1
8148276a	1.72E-02	1.67	up	ZNF572
8038904a	2.12E-03	1.55	down	ZNF577
8036373a	5.04E-03	1.61	down	ZNF585A
8036389a	2.76E-02	1.50	down	ZNF585B
8113761a	1.69E-02	2.00	down	ZNF608
8111129a	3.77E-03	1.60	up	ZNF622
8148658a	1.20E-02	1.52	down	ZNF623
8079198a	3.85E-03	2.08	down	ZNF660;ZNF197
8030950a	2.32E-02	1.62	down	ZNF701
8027348a	6.04E-03	5.85	up	ZNF730
8098745a	3.91E-02	2.23	down	ZNF732
8039645a	1.40E-02	1.58	down	ZNF772
8046815a	2.22E-02	4.11	up	ZNF804A
8039692a	2.15E-02	1.67	down	ZNF814;ZNF552;ZNF587;LOC100288322;LOC100293516
8038967a	4.64E-02	1.59	down	ZNF83
8025984a	2.21E-03	1.96	down	ZNF844
8000399a	4.52E-04	1.66	up	ZKSCAN2
8173261a	4.34E-04	3.49	down	ZC4H2
8105506a	3.65E-04	1.61	down	ZSWIM6
8004510a	7.03E-04	2.32	up	CD68
8123606a	2.11E-03	2.32	up	MGC39372
8089464a	4.55E-02	1.99	up	LOC151760
8021301a	1.91E-02	1.71	up	RAB27B
7896759a	2.22E-03	1.55	up	LOC643837
8154233a	9.02E-03	1.94	down	CD274
8065032a	1.88E-03	1.80	down	ESF1
8115147a	2.13E-02	1.69	down	CD74
8021001a	1.59E-02	1.54	down	KIAA1328
8036302a	2.64E-02	1.54	down	LOC100127980

Complete list of all genes meeting t-test comparison between metal-transformed clones and their control clones with p-value less than or equal to 0.05 and a fold-change cut-off of greater than or equal to 1.50

Supplementary Table 3 Differentially Expressed Genes in Cr-Transformed Clones

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8008454a	7.31E-03	1.81	down	ABCC3
8092418a	2.88E-04	1.72	up	ABCC5
8170704a	6.16E-04	1.72	down	ABCD1
7985809a	3.31E-06	1.54	down	ABHD2
7973306a	3.45E-03	1.56	down	ABHD4
8089145a	1.27E-04	6.03	down	ABI3BP
7936463a	5.38E-04	2.34	down	ABLIM1
7931168a	2.43E-04	1.62	up	ACADSB
7975602a	3.38E-03	1.71	down	ACOT2
7930498a	8.81E-03	2.36	down	ACSL5
7957386a	1.33E-03	2.03	up	ACSS3
8045587a	2.23E-02	1.75	up	ACVR2A
8066431a	3.50E-05	1.82	down	ADA
7936968a	7.10E-03	2.92	down	ADAM12
8146024a	5.76E-04	2.04	down	ADAM32
8069676a	6.82E-05	28.80	up	ADAMTS1
8100870a	6.89E-04	2.12	down	ADAMTS3
8069689a	7.14E-04	6.98	up	ADAMTS5
7985522a	2.63E-06	3.96	down	ADAMTSL3
8069178a	7.53E-04	2.38	up	ADARB1
7930380a	3.40E-03	1.53	down	ADD3
8101844a	1.95E-04	1.50	down	ADH5
8050071a	3.34E-04	1.72	down	ADI1
7938390a	7.25E-04	2.88	up	ADM
8099259a	4.07E-03	1.57	down	AFAP1
8109120a	2.56E-02	1.55	up	AFAP1L1
8054254a	2.08E-03	2.27	up	AFF3
8130628a	3.75E-04	1.62	down	AGPAT4
8083240a	5.89E-04	2.70	up	AGTR1
7981514a	3.72E-04	2.75	down	AHNAK2
8121277a	2.66E-04	5.50	down	AIM1
7962183a	1.05E-05	2.52	up	AK3L1
7902452a	4.22E-04	4.94	up	AK5
7985695a	1.32E-05	1.68	down	AKAP13
7925531a	1.95E-04	1.55	down	AKT3
8001410a	6.84E-04	1.80	down	AKTIP
7986446a	1.81E-05	4.02	down	ALDH1A3
7965979a	3.42E-02	1.99	down	ALDH1L2
8013660a	3.21E-02	1.81	up	ALDOC
7951467a	8.60E-04	1.51	up	ALKBH8
7968344a	8.45E-06	2.22	down	ALOX5AP
8049123a	6.71E-03	1.85	up	ALPP
7962579a	1.95E-04	3.77	down	AMIGO2
8174576a	8.26E-03	2.35	up	AMOT
8054437a	6.74E-03	1.51	up	ANAPC1

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8112596a	3.63E-03	1.64	down	ANKRA2
8106931a	2.66E-03	1.60	down	ANKRD32
7943231a	8.52E-03	1.53	up	ANKRD49
8102720a	1.13E-04	1.82	down	ANKRD50
7957861a	1.31E-02	1.84	up	ANO4
7991335a	2.50E-05	2.86	down	ANPEP
8095986a	9.56E-05	3.52	down	ANXA3
8047300a	2.76E-04	3.32	down	AOX1
8034084a	3.38E-03	1.79	up	AP1M2
7982187a	1.77E-03	3.10	up	APBA2
7926786a	1.33E-02	2.78	down	APBB1IP
8099982a	1.03E-05	2.51	down	APBB2
7984124a	1.23E-03	1.56	down	APH1B
8167998a	1.40E-04	2.56	down	AR
8099760a	2.07E-04	2.15	down	ARAP2
7946201a	1.47E-05	1.66	up	ARFIP2
8097717a	4.61E-04	1.56	down	ARHGAP10
7933469a	9.06E-04	1.65	up	ARHGAP22
8096160a	2.55E-04	2.07	down	ARHGAP24
8019964a	4.36E-02	2.34	up	ARHGAP28
7961532a	1.44E-02	2.60	down	ARHGDIB
8173217a	5.62E-05	1.70	down	ARHGEF9
8112033a	3.93E-03	1.73	down	ARL15
8080926a	1.53E-03	1.67	down	ARL6IP5
8168875a	1.30E-04	1.70	down	ARMCX3
8168958a	1.80E-05	1.53	down	ARMCX5
8113073a	2.05E-04	3.96	down	ARRDC3
7986350a	8.35E-03	1.57	up	ARRDC4
8171148a	1.48E-03	1.68	up	ARSD
8106962a	1.28E-02	1.56	down	ARSK
7952341a	1.54E-02	2.40	down	ASAM
8040113a	1.65E-03	1.52	down	ASAP2
8121734a	1.29E-03	1.52	down	ASF1A
7940643a	7.49E-03	1.63	up	ASRGL1
7993167a	3.65E-04	2.18	up	ATF7IP2
8106709a	8.79E-04	2.03	down	ATG10
7974270a	3.38E-04	2.52	down	ATL1
7948995a	1.13E-04	1.55	down	ATL3
8043244a	9.64E-03	1.54	down	ATOH8
8094911a	1.18E-04	1.71	down	ATP10D
7907160a	2.43E-04	1.63	down	ATP1B1
8098762a	4.16E-04	1.61	down	ATP5I;MYL5
8170882a	1.26E-05	1.65	down	ATP6AP1
8166805a	2.51E-06	1.77	down	ATP6AP2
8143221a	1.42E-02	1.62	up	ATP6V0A4
8168472a	2.15E-04	1.58	down	ATP7A

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
7987369a	6.11E-04	1.90	down	ATPBD4
8173673a	1.65E-05	2.01	down	ATRX
8176276a	6.31E-05	1.92	down	ATRX
8124040a	2.15E-03	1.78	down	ATXN1
7983360a	8.45E-06	1.90	down	B2M
8091780a	1.86E-02	1.78	up	B3GALNT1
7968370a	2.02E-05	1.80	down	B3GALTL
8084206a	4.78E-03	3.59	down	B3GNT5
7964484a	2.20E-02	1.50	down	B4GALNT1;SLC26A10
7951910a	1.25E-02	1.77	down	BACE1
8069494a	9.46E-04	1.63	up	BAGE2;LOC441666
8141206a	8.35E-03	2.13	up	BAIAP2L1
8056060a	7.05E-05	1.96	down	BAZ2B
8001507a	2.12E-04	1.60	down	BBS2
8132218a	1.83E-04	1.51	down	BBS9
7961829a	1.07E-03	1.63	up	BCAT1
8172088a	1.26E-05	1.86	down	BCOR
7976567a	1.02E-03	5.71	down	BDKRB1
7947230a	5.01E-03	1.55	up	BDNF
8170648a	3.81E-05	6.04	down	BGN
8077441a	1.19E-04	2.28	down	BHLHE40
7952309a	2.42E-04	1.75	down	BLID
8145055a	2.22E-04	1.75	down	BMP1
8132250a	8.63E-04	1.59	up	BMPER
8047538a	6.26E-05	1.62	down	BMPR2
8160260a	3.64E-02	1.51	down	BNC2
8171006a	9.52E-05	1.83	down	BRCC3
8017262a	3.52E-04	1.69	down	BRIP1
8173766a	5.42E-05	1.71	down	BRWD3
8094228a	4.18E-02	1.60	down	BST1
8117435a	2.83E-04	1.86	down	BTN3A2
8110606a	1.24E-03	1.90	up	BTNL8
7928695a	8.36E-03	2.68	up	C10orf58
7943162a	3.22E-04	1.84	up	C11orf54
7942783a	6.98E-04	1.58	down	C11orf67;INTS4
7951004a	1.25E-03	1.88	up	C11orf75
7954398a	4.69E-02	1.75	up	C12orf39
7964677a	1.61E-03	1.52	up	C12orf66
7968351a	2.02E-06	3.63	down	C13orf33
7979437a	2.13E-03	1.54	down	C14orf149
7980338a	3.40E-04	1.55	down	C14orf4
7983478a	3.03E-03	1.59	down	C15orf48
7987526a	8.31E-05	1.59	down	C15orf57;MRPL42P5
8002992a	2.63E-03	1.56	up	C16orf46
7993114a	5.83E-04	1.51	up	C16orf68
8013515a	1.16E-02	1.50	up	C17orf51

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8007569a	1.26E-03	1.52	up	C17orf53
8174820a	1.96E-03	1.53	down	C1GALT1C1
7909478a	4.93E-05	1.56	down	C1orf107
8118324a	2.07E-02	2.38	down	C2
8064322a	2.43E-04	1.85	down	C20orf96
8067932a	1.82E-02	1.87	down	C21orf34
8069998a	2.03E-04	1.50	up	C21orf59
8069574a	1.44E-03	1.85	down	C21orf91
8053248a	6.22E-05	3.47	up	C2orf65
8033257a	3.31E-02	1.86	down	C3
8080847a	7.96E-03	3.09	down	C3orf14
8091629a	4.91E-04	1.60	up	C3orf33
8083223a	2.47E-04	2.36	up	C3orf58
8088680a	1.07E-03	1.90	down	C3orf64
8103684a	1.84E-04	1.61	down	C4orf27
8097373a	4.95E-05	1.61	down	C4orf29
8097435a	1.50E-03	1.72	down	C4orf33
8098512a	8.01E-05	1.54	down	C4orf41
7991777a	5.37E-05	1.52	down	C4orf46
8102831a	9.58E-03	1.81	down	C4orf49
8099193a	1.01E-02	1.58	up	C4orf50
8113504a	2.22E-04	3.41	down	C5orf13
8104680a	2.39E-03	1.64	up	C5orf22
8104758a	1.06E-05	22.72	down	C5orf23
8110147a	3.26E-05	3.95	up	C5orf25
8105647a	2.24E-03	1.54	down	C5orf44
8123678a	8.45E-06	1.77	down	C6orf145
8129392a	2.09E-03	2.29	down	C6orf174;KIAA0408
8135734a	1.02E-05	1.77	down	C7orf58
8134051a	1.56E-03	1.72	up	C7orf63
8156571a	7.69E-04	1.83	down	C9orf3
8156573a	5.25E-04	1.60	down	C9orf3
8164008a	4.11E-03	1.64	up	C9orf45
8157144a	5.53E-03	1.76	up	C9orf6;IKBKAP
8140579a	3.73E-03	2.86	up	CACNA2D1
7955142a	2.95E-05	1.68	down	CACNB3
8009334a	4.66E-05	3.71	down	CACNG4
8040843a	4.87E-05	1.57	up	CAD
7906417a	1.61E-03	2.13	down	CADM3
8037363a	1.89E-03	1.70	up	CADM4
7926223a	1.47E-05	2.41	down	CAMK1D
8111506a	2.40E-02	1.59	up	CAPSL
8137874a	3.39E-03	2.19	up	CARD11
7951408a	1.62E-04	2.51	down	CARD16
7945803a	3.31E-03	1.53	up	CARS
8172158a	6.74E-05	1.75	down	CASK

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
7951372a	2.83E-04	2.74	up	CASP4
8135587a	6.36E-04	1.55	down	CAV2
8068401a	2.85E-04	1.50	up	CBR1
8103622a	2.39E-03	1.66	down	CBR4
8094190a	1.47E-02	1.52	down	CC2D2A
8098556a	6.20E-04	1.72	down	CCDC111;MLF1IP
8113602a	2.09E-04	1.69	up	CCDC112
7996198a	3.07E-04	2.77	up	CCDC113
8177628a	4.82E-03	1.52	down	CCDC125
7944913a	2.81E-04	1.65	down	CCDC15
8016088a	5.85E-04	1.70	up	CCDC43
8023401a	5.44E-03	2.12	down	CCDC68
7899346a	9.75E-03	1.83	down	CCDC72
8037762a	7.36E-03	1.53	up	CCDC8
7980828a	1.65E-02	2.23	up	CCDC88C
8006433a	8.88E-03	2.29	down	CCL2
7942123a	3.19E-03	2.03	up	CCND1;FLJ42258
7989037a	6.50E-05	1.96	down	CCPG1;DYX1C1
8120719a	5.32E-04	2.63	down	CD109
8081657a	2.09E-04	2.98	down	CD200
8177222a	4.00E-03	7.59	down	CD24
8004510a	2.66E-02	1.55	up	CD68
8115147a	7.43E-04	1.61	down	CD74
7939546a	2.36E-05	2.22	up	CD82
7924773a	2.09E-03	1.61	down	CDC42BPA
8138489a	1.53E-04	1.81	up	CDC47L
8086517a	1.19E-02	1.56	up	CDCP1
8081838a	6.66E-03	2.13	down	CDGAP
8111255a	8.13E-03	2.28	up	CDH10
8001800a	2.21E-02	2.55	up	CDH11
8063796a	4.40E-02	1.76	down	CDH4
8104663a	2.79E-04	5.41	up	CDH6
7997982a	1.69E-05	1.63	up	CDK10
8101031a	2.64E-03	1.63	down	CDKL2
7901363a	3.83E-04	1.62	down	CDKN2C
7997839a	4.30E-05	1.57	up	CDT1
8002975a	2.24E-02	1.51	down	CDYL2
8071086a	3.61E-02	1.58	up	CECR2
8100603a	9.20E-05	1.55	down	CENPC1
8102076a	1.13E-04	1.58	down	CENPE
8168794a	3.04E-05	1.54	down	CENPI
8112376a	6.05E-04	1.63	down	CENPK
7943297a	1.05E-04	1.84	up	CEP57
8175755a	2.20E-05	1.53	down	CETN2
8113050a	9.01E-03	1.67	down	CETN3
8002865a	6.82E-03	1.59	down	CFDP1;C17orf60

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
7995583a	6.98E-04	1.74	down	CHD9
8100382a	4.46E-04	1.79	down	CHIC2
8147057a	1.05E-04	1.66	up	CHMP4C
7950983a	4.15E-05	2.27	up	CHORDC1
8174513a	3.37E-05	14.29	up	CHRD1
7910915a	2.71E-04	5.19	up	CHRM3
8054297a	2.24E-03	1.85	up	CHST10
7958202a	3.59E-03	2.37	down	CHST11
8083214a	2.63E-06	4.24	up	CHST2
7928291a	3.76E-04	1.52	down	CHST3
7990674a	6.05E-04	1.57	down	CIB2
8165974a	8.23E-03	1.53	up	CLCN4
8092726a	1.26E-03	2.50	up	CLDN1
8102877a	2.45E-02	2.49	up	CLGN
8165334a	3.05E-02	2.00	up	CLIC3
7981142a	1.57E-03	1.76	down	CLMN
7969488a	2.90E-03	1.58	down	CLN5
8144279a	1.80E-03	1.52	down	CLN8
8149927a	2.77E-04	2.06	down	CLU
7996318a	2.18E-04	1.59	down	CMTM3
8166355a	2.20E-03	2.76	up	CNKSR2
7929732a	2.20E-05	3.04	up	CNNM1
8007272a	8.10E-03	1.55	up	COASY
8056343a	2.27E-03	2.34	up	COBLL1
8127563a	2.36E-03	2.21	up	COL12A1
7972750a	4.61E-05	2.27	down	COL4A1
7970033a	1.51E-03	1.52	down	COL4A2;STK24
8169294a	7.48E-05	1.50	down	COL4A5
8159142a	1.27E-04	1.78	down	COL5A1
8057620a	8.45E-06	18.80	down	COL5A2
8081235a	2.14E-04	2.39	down	COL8A1
7926596a	3.82E-04	1.70	down	COMMD3;BMI1
7984475a	5.67E-04	2.65	down	CORO2B
8089795a	4.96E-03	1.51	down	COX17
8168470a	2.48E-03	1.66	down	COX7B
8098204a	1.27E-05	4.19	down	CPE
8094169a	2.77E-05	2.58	down	CPEB2
7995976a	6.91E-05	2.04	down	CPNE2
7962250a	2.28E-02	1.75	down	CPNE8
7977397a	1.34E-03	1.82	down	CRIP2
7997642a	2.33E-05	4.40	down	CRISPLD2
8078650a	2.57E-03	1.60	down	CTDSPL
7945663a	3.50E-05	3.17	down	CTSD;LOC402778
7919800a	5.89E-05	1.85	down	CTSS
7943580a	6.58E-05	1.53	up	CUL5
7936798a	2.91E-02	1.56	down	CUZD1

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8095697a	3.28E-04	1.79	down	CXCL1
8011713a	9.24E-03	1.78	up	CXCL16
8166230a	2.93E-05	1.83	up	CXorf15
8172110a	1.38E-04	1.55	down	CXorf38
8175642a	8.51E-05	1.73	down	CXorf40B
8108447a	1.07E-02	1.63	down	CXXC5
8004694a	1.58E-05	1.82	up	CYB5D1
8003322a	1.30E-02	1.56	up	CYBA
8109528a	9.48E-05	3.52	up	CYFIP2
8176698a	1.72E-05	6.49	down	CYorf15A
8176709a	1.82E-05	4.75	down	CYorf15B
8051583a	1.12E-02	4.62	down	CYP1B1
8054967a	1.81E-04	1.98	down	CYP27C1
7946742a	1.14E-03	3.53	down	CYP2R1
8005661a	1.17E-03	1.53	down	CYTSB
7974697a	2.09E-04	1.80	down	DAAM1
7974689a	2.37E-03	1.54	down	DACT1
8110982a	4.07E-03	1.58	up	DAP
8016159a	9.46E-04	2.03	up	DCAKD
8121685a	8.15E-04	1.86	down	DCBLD1
7945101a	1.51E-04	1.56	down	DCPS
8145660a	1.44E-04	1.56	down	DCTN6
8095009a	3.70E-04	1.57	down	DCUN1D4
7953844a	1.29E-03	1.77	up	DDX12;DDX11;LOC642846;LOC100134008
8170027a	1.05E-04	1.97	down	DDX26B
8176624a	2.61E-04	23.67	down	DDX3Y
8103563a	1.37E-04	2.14	down	DDX60
8103601a	3.75E-04	2.13	down	DDX60L
7918487a	1.22E-02	1.67	up	DENND2D
8148476a	8.45E-06	2.59	down	DENND3
8148059a	2.45E-03	1.92	up	DEPDC6
8138602a	5.32E-03	1.52	down	DFNA5
7968800a	7.24E-06	1.78	down	DGKH
8143154a	6.08E-04	4.09	down	DGKI;DGKi
7978260a	2.15E-03	1.64	down	DHRS1
8168691a	2.05E-03	2.13	down	DIAPH2
7971866a	4.29E-04	1.66	down	DIAPH3
7931683a	6.98E-04	2.74	up	DIP2C
7927631a	7.41E-06	2.42	up	DKK1
7988789a	1.28E-03	1.53	down	DMXL2
8154962a	2.01E-05	1.60	down	DNAJB5
8137627a	1.16E-04	1.62	up	DNAJB6;TMEM135
7968872a	4.27E-03	1.52	down	DNAJC15
8015490a	3.74E-03	1.53	up	DNAJC7;CNP
8176076a	3.28E-04	1.75	down	DNASE1L1
8059580a	1.76E-03	5.59	down	DNER

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8059413a	2.23E-04	4.32	down	DOCK10
8142345a	1.90E-02	2.04	down	DOCK4
8145365a	6.59E-04	1.73	down	DOCK5
7953665a	1.70E-02	1.59	down	DPPA3
8027448a	3.04E-05	1.52	down	DPY19L3
7917912a	1.80E-04	1.98	up	DPYD
8022711a	4.53E-04	8.38	up	DSC2
8022692a	1.29E-04	34.96	up	DSC3
8116780a	4.16E-03	2.83	down	DSP
8020847a	8.66E-04	2.53	down	DTNA
7924450a	2.54E-02	1.69	up	DUSP10
7961371a	7.86E-04	1.60	down	DUSP16
8053882a	3.71E-04	1.61	up	DUSP2
8150076a	3.00E-02	1.66	down	DUSP4
7910379a	1.41E-02	1.60	up	DUSP5P
8130499a	6.82E-04	1.63	down	DYNLT1
8172035a	4.93E-05	1.61	down	DYNLT3
8042637a	8.54E-05	2.92	down	DYSF
8147101a	2.43E-02	1.93	up	E2F5
8116921a	1.89E-02	1.78	down	EDN1
7960365a	2.59E-03	2.22	up	EFCAB4B
7960370a	7.84E-04	2.08	up	EFCAB4B
7949503a	1.27E-02	1.53	down	EFEMP2
8049187a	5.48E-03	1.56	up	EFHD1
7978544a	6.36E-03	1.62	up	EGLN3
8176719a	4.54E-04	19.76	down	EIF1AY
7938263a	5.16E-04	1.51	up	EIF3F
8088803a	3.88E-03	1.71	down	EIF4E3
8012856a	4.93E-05	1.54	up	ELAC2
8160459a	4.91E-05	4.45	up	ELAVL2
8102817a	5.65E-06	1.61	down	ELF2
8123920a	8.31E-05	1.85	up	ELOVL2
8127767a	2.31E-02	1.94	up	ELOVL4
8112274a	8.72E-05	5.49	up	ELOVL7
8112007a	2.22E-03	1.68	down	EMB
8170850a	2.02E-05	1.62	down	EMD
7976698a	8.51E-05	2.35	down	EML1
7999387a	7.50E-04	1.67	up	EMP2
7924619a	1.52E-04	1.88	down	ENAH
8152522a	4.39E-04	2.86	down	ENPP2
8120061a	3.26E-04	1.94	up	ENPP4
8149793a	5.22E-04	1.67	down	ENTPD4
7980080a	1.45E-02	1.52	down	ENTPD5
7899534a	9.65E-04	1.62	up	EPB41
8044882a	8.23E-03	1.61	up	EPB41L5
8098439a	5.30E-03	3.41	up	EPCAM

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8095723a	1.40E-04	5.15	down	EPGN
8059279a	1.31E-04	7.04	up	EPHA4
7898809a	2.31E-02	1.64	down	EPHB2
7971296a	1.99E-04	2.20	down	EPST1
8113250a	1.19E-03	2.29	down	ERAP1
8107044a	1.62E-04	3.25	down	ERAP2
7993298a	2.89E-05	1.67	up	ERCC4
8095728a	1.31E-06	4.67	down	EREG
8159992a	4.28E-02	1.52	up	ERMP1
8037322a	4.63E-03	1.51	down	ETHE1
8138289a	5.94E-05	1.93	up	ETV1
8015806a	7.52E-04	2.11	up	ETV4
8092578a	2.28E-03	1.91	up	ETV5
8158714a	6.65E-04	1.54	up	EXOSC2
7968658a	7.60E-04	1.57	down	EXOSC8;FAM48A
7951545a	1.47E-02	1.87	up	EXPH5
8151310a	2.55E-04	5.25	down	EYA1
8063187a	1.26E-05	4.15	down	EYA2
8122150a	9.60E-04	13.24	down	EYA4
8106403a	2.41E-03	2.20	down	F2RL1
8170998a	1.41E-03	1.76	down	F8A1;F8A2;F8A3
7940565a	1.43E-02	1.52	up	FADS2
7985488a	2.23E-03	1.51	down	FAM103A1
8104570a	2.11E-03	2.42	up	FAM105A
8146533a	2.71E-04	2.17	up	FAM110B
8173041a	2.12E-03	2.21	down	FAM120C
8157905a	7.55E-04	1.60	up	FAM125B
7922846a	6.33E-03	1.75	up	FAM129A
8111136a	2.48E-03	1.80	up	FAM134B
8015655a	4.21E-03	1.52	up	FAM134C
7928354a	1.81E-04	1.65	down	FAM149B1
8097801a	4.17E-03	2.45	down	FAM160A1
8149324a	2.37E-05	1.85	up	FAM167A
8112649a	1.06E-02	1.85	up	FAM169A
8046895a	2.54E-03	2.31	up	FAM171B
8113083a	1.47E-05	2.26	down	FAM172A
8101489a	5.55E-03	1.73	down	FAM175A
7973918a	1.94E-03	1.68	down	FAM177A1
8001537a	6.24E-04	1.52	down	FAM192A
8176117a	7.88E-05	1.62	down	FAM3A
8170906a	1.17E-04	1.53	down	FAM50A
8156253a	2.68E-03	2.36	up	FAM75A7;FAM75C1;FAM75A2;FAM75A6;FAM75A1
8152812a	1.86E-03	1.51	up	FAM84B
8003503a	3.12E-05	1.65	up	FANCA;ZNF276
8056257a	7.12E-05	3.93	down	FAP
7954631a	7.31E-03	2.95	up	FAR2

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8110920a	2.67E-03	1.68	up	FASTKD3
8104079a	3.31E-04	1.51	down	FAT1
8097288a	1.11E-04	2.95	down	FAT4
7898263a	1.18E-04	1.67	down	FBLIM1
8073775a	1.12E-03	2.59	down	FBLN1
7988467a	7.75E-05	1.94	down	FBN1
8113800a	4.91E-03	1.61	up	FBN2
8078461a	4.12E-04	2.15	down	FBXL2
8099449a	5.33E-05	1.60	down	FBXL5
7985053a	3.04E-05	1.52	down	FBXO22;FBXO22OS
8152703a	4.78E-06	3.90	down	FBXO32
7951654a	1.13E-04	1.76	up	FDXACB1;ALG9
8064904a	7.98E-03	2.90	up	FERMT1
7954729a	3.89E-05	2.00	down	FGD4
7965541a	2.98E-03	1.59	down	FGD6
8097829a	1.84E-02	2.22	down	FHDC1
8170119a	3.99E-06	2.79	down	FHL1
8020973a	8.88E-03	1.61	up	FHOD3
8056323a	2.83E-05	1.78	down	FIGN
7945132a	1.68E-03	2.13	down	FLI1;EWSR1
7917942a	1.10E-03	1.98	up	FLJ35409
8113796a	1.48E-03	2.13	down	FLJ44606
8176026a	2.00E-04	1.54	down	FLNA
8135990a	8.57E-06	2.23	up	FLNC
7987145a	2.72E-02	1.86	down	FMN1
7910923a	1.90E-02	1.88	up	FMN2
8170326a	1.72E-05	1.68	down	FMR1
8098103a	6.05E-04	1.54	down	FNIP2
7973745a	4.00E-05	1.73	up	FOXG1
8088776a	1.44E-04	2.67	down	FOXP1
8098714a	5.32E-05	1.57	down	FRG1
7988260a	5.86E-03	1.92	down	FRMD5
7917954a	2.85E-02	1.79	up	FRRS1
8023995a	1.40E-04	2.11	down	FSTL3
8171001a	2.03E-05	1.77	down	FUNDC2
8147766a	3.56E-04	1.83	up	FZD6
7909441a	5.00E-02	1.73	up	GOS2
8097586a	5.30E-05	1.67	down	GAB1
8176163a	3.53E-06	2.25	down	GAB3
8175683a	9.24E-05	2.43	down	GABRE
8175666a	1.62E-03	2.04	down	GABRE
7942064a	1.15E-02	1.53	up	GAL
7980580a	3.09E-03	2.56	down	GALC
8020903a	2.72E-02	1.60	up	GALNT1
8109426a	5.32E-05	2.13	down	GALNT10
8109407a	5.76E-05	2.12	down	GALNT10

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8045776a	1.75E-03	4.38	up	GALNT13
8051298a	3.77E-02	1.61	up	GALNT14
7910427a	4.16E-04	1.50	down	GALNT2
8056408a	1.45E-02	4.56	up	GALNT3
8045835a	1.46E-04	2.21	down	GALNT5
7963313a	3.21E-03	2.23	up	GALNT6
8098328a	1.04E-03	1.74	down	GALNT7
7946641a	3.73E-03	1.52	up	GALNTL4
7997414a	1.02E-05	1.77	up	GAN
7970329a	1.17E-02	1.57	down	GAS6
7998103a	4.90E-04	1.60	up	GAS8;LOC100130015
8090469a	1.36E-05	1.69	up	GATA2
7917516a	7.61E-04	1.94	down	GBP1;GBP3;LOC400759
8116835a	6.77E-03	1.66	down	GCNT2
8151906a	8.63E-03	1.72	up	GDF6
8170891a	3.50E-05	1.74	down	GDI1
8111670a	7.12E-05	2.91	up	GDNF
8151816a	2.20E-03	1.63	down	GEM
8115410a	1.67E-05	1.50	up	GEMIN5
8116418a	7.05E-05	2.95	down	GFPT2
7936494a	7.78E-04	3.67	up	GFRA1
7919340a	2.90E-02	2.08	up	GJA5
7984517a	1.78E-04	1.81	down	GLCE
8160024a	1.78E-03	2.18	up	GLDC
8139212a	2.55E-04	1.62	down	GLI3
7957260a	6.65E-04	1.65	down	GLIPR1;KRR1
8155192a	1.11E-04	2.22	down	GLIPR2
8159900a	9.64E-04	2.06	down	GLIS3
8098006a	5.42E-05	2.06	down	GLRB
8113214a	3.33E-02	1.52	down	GLRX
8080964a	1.77E-02	1.78	down	GLT8D4
8117034a	1.03E-02	1.74	up	GMPR
8071671a	4.22E-04	1.53	up	GNAZ
8100085a	6.30E-04	1.66	down	GNPDA2
8007904a	7.46E-04	1.75	up	GOSR2
7935627a	4.77E-05	1.68	up	GOT1
7969613a	1.72E-02	1.62	down	GPC6
8122365a	4.67E-04	1.63	down	GPR126
7974372a	4.81E-04	2.45	down	GPR137C
8083839a	2.92E-03	2.53	up	GPR160
7987439a	2.63E-04	2.27	down	GPR176
8045336a	7.63E-03	1.58	down	GPR39;LYPD1
7996081a	7.15E-03	1.97	down	GPR56
8128316a	7.87E-04	2.01	up	GPR63
8168968a	5.62E-05	1.58	down	GPRASP1
7995362a	1.05E-03	1.50	up	GPT2

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8139656a	1.52E-04	1.78	down	GRB10
7964759a	5.15E-05	2.11	up	GRIP1
8127094a	2.20E-03	1.98	down	GSTA4
8140170a	4.78E-05	1.76	down	GTF2IRD2;GTF2IRD2B;GTF2IRD2P
8171079a	2.95E-05	1.51	up	GTPBP6
8046906a	2.81E-03	6.01	up	GULP1
8045009a	1.52E-05	2.36	down	GYPC
8072926a	2.36E-03	1.59	down	H1FO
7928107a	3.50E-04	3.79	down	H2AFY2
8152617a	3.87E-03	5.68	up	HAS2
7977841a	5.28E-04	1.68	down	HAUS4
8175782a	2.00E-04	1.61	down	HAUS7;TREX2
8114572a	1.05E-03	2.30	down	HBEGF
8118093a	5.32E-03	2.03	down	HCG27
8089911a	2.89E-05	2.43	down	HCLS1
8118111a	1.52E-02	1.56	down	HCP5
8122317a	1.26E-04	1.56	down	HEBP2
8096385a	2.00E-04	1.59	down	HERC3
8096361a	1.65E-05	3.63	up	HERC5
8097628a	1.51E-05	16.69	down	HHIP
8124430a	1.38E-03	1.57	down	HIST1H1D
8124394a	1.46E-02	3.12	down	HIST1H2BB
8124492a	4.46E-02	1.84	up	HIST1H2BK
8117594a	3.73E-03	2.32	down	HIST1H2BM
8124537a	1.05E-04	2.63	down	HIST1H3J
8117422a	3.67E-03	4.13	down	HIST1H4F
7919642a	6.98E-04	1.51	down	HIST2H2AB
8116910a	2.32E-04	1.55	down	HIVEP1
8042942a	1.83E-04	1.88	up	HK2
8179519a	3.15E-04	1.80	up	HLA-DPB1
8118564a	1.49E-02	1.81	up	HLA-DQA2;HLA-DQA1;LOC100294317;LOC100294224
8117760a	1.46E-02	1.64	down	HLA-F
8008588a	4.23E-03	2.47	down	HLF
8170468a	1.27E-04	1.59	down	HMGB3
8106280a	6.91E-04	1.54	down	HMGCR
8117510a	8.94E-06	1.60	down	HMGN4
8112841a	6.11E-03	4.57	up	HOMER1
8138765a	2.01E-05	1.53	up	HOXA11
8016438a	2.05E-04	1.89	down	HOXB2
7955887a	8.69E-03	1.64	up	HOXC5
7955873a	8.19E-04	1.74	up	HOXC6;HOXC4;HOXC5
7955869a	2.01E-05	2.79	up	HOXC8
7955865a	8.42E-04	1.73	up	HOXC9
8101449a	3.51E-04	2.21	down	HPSE
8077851a	6.09E-04	1.72	down	HRH1
7898677a	4.38E-04	1.98	up	HS6ST1

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
7936516a	1.31E-06	2.84	up	HSPA12A
7975076a	1.45E-03	2.11	down	HSPA2
8097335a	4.92E-04	1.64	up	HSPA4L
7913450a	1.22E-03	1.54	down	HSPG2;LDLRAD2
7931097a	3.67E-03	1.63	down	HTRA1
8040163a	1.47E-05	1.84	down	IAH1
8070720a	3.25E-03	1.73	up	ICOSLG
8061564a	2.68E-04	2.66	down	ID1
8040103a	6.14E-03	2.65	up	ID2
7991374a	1.51E-04	2.61	down	IDH2
8175844a	5.37E-05	1.56	down	IDH3G
8175593a	1.49E-04	2.05	down	IDS
8170390a	9.13E-04	1.83	down	IDS;LOC727913
7912994a	8.19E-04	1.78	down	IFFO2
8160435a	3.72E-04	2.33	down	IFNE
7958620a	2.26E-03	1.51	down	IFT81
8008151a	5.75E-04	1.69	up	IGF2BP1
8007100a	1.82E-03	2.45	down	IGFBP4
8100541a	6.22E-05	2.07	down	IGFBP7;POLR2B
8029779a	1.40E-06	5.62	down	IGFL1
7981722a	4.15E-02	2.25	up	IGHA1;IGHG1
8039484a	1.39E-02	1.56	down	IL11
8169580a	5.16E-03	1.69	down	IL13RA1
8043995a	3.24E-04	2.47	down	IL1R1
8084794a	7.05E-05	1.73	down	IL1RAP
7992828a	3.20E-03	1.88	down	IL32
8104901a	9.17E-04	3.23	up	IL7R
8095680a	1.75E-02	1.77	down	IL8
8044927a	7.89E-03	1.51	up	INHBB
8102950a	2.83E-05	2.41	down	INPP4B
8137526a	6.31E-05	2.00	down	INSIG1
8033362a	1.46E-03	1.72	up	INSR
7921033a	4.37E-04	1.69	down	IQGAP3
8175977a	4.37E-04	1.57	down	IRAK1
8120826a	3.61E-03	1.63	up	IRAK1BP1
8112331a	4.15E-04	1.67	up	ISCA1;ISCA1L
8001211a	6.18E-04	1.79	down	ITFG1
7989985a	9.21E-04	2.43	down	ITGA11
8046695a	2.99E-03	3.25	up	ITGA4;CERKL
7963786a	1.57E-04	1.85	down	ITGA5
8046861a	5.92E-05	1.63	down	ITGAV
8007931a	9.71E-03	2.00	down	ITGB3
8009951a	1.43E-02	1.61	down	ITGB4
7969861a	3.04E-05	2.90	down	ITGBL1
8173755a	2.23E-02	2.53	up	ITM2A
7980970a	8.09E-04	1.66	down	ITPK1

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
7961900a	1.00E-03	1.80	down	ITPR2
7936242a	2.53E-04	1.61	down	ITPRIP
8064978a	2.32E-03	2.17	down	JAG1
8138789a	5.25E-03	1.71	down	JAZF1
7998267a	4.51E-03	1.58	down	JMJD8
8151423a	4.72E-05	2.30	up	JPH1
8026047a	3.27E-05	2.06	down	JUNB
8015412a	4.02E-03	1.76	up	JUP
8154012a	1.57E-02	1.99	up	KANK1
8015526a	3.64E-04	1.65	up	KAT2A
8078227a	4.16E-04	2.05	down	KAT2B
7970844a	4.02E-03	1.78	down	KATNAL1
7909730a	1.11E-02	1.90	up	KCNK2
7957126a	7.01E-03	1.52	up	KCNMB4
8120654a	1.55E-05	4.99	up	KCNQ5
7950641a	7.34E-03	2.31	down	KCTD14
8027584a	1.89E-03	1.75	up	KCTD15
7943282a	1.59E-04	1.83	up	KDM4D
8177232a	1.55E-04	4.58	down	KDM5D
8148448a	2.06E-02	1.64	down	KHDRBS3
7911854a	2.51E-06	2.09	up	KIAA0495
7971246a	6.46E-05	1.57	down	KIAA0564
8011293a	5.35E-05	1.60	up	KIAA0664
8099721a	2.56E-03	1.76	down	KIAA0746
8104350a	1.39E-03	1.58	up	KIAA0947
8097148a	8.87E-06	1.70	down	KIAA1109
7926679a	1.22E-02	1.62	down	KIAA1217
8122279a	8.26E-04	2.73	up	KIAA1244;LOC202451
8140709a	2.01E-05	2.59	up	KIAA1324L
7988970a	1.15E-03	1.55	down	KIAA1370
8160981a	6.18E-04	1.58	down	KIAA1539
8143247a	4.77E-04	1.58	up	KIAA1549
8003158a	5.04E-04	1.72	up	KIAA1609
8098348a	4.55E-05	1.53	down	KIAA1712;FBXO8
8020384a	4.74E-04	1.66	up	KIAA1772
7910600a	6.41E-03	1.71	up	KIAA1804
8050128a	1.81E-04	1.56	down	KIDINS220
8016147a	6.20E-04	1.66	up	KIF18B
8016139a	2.57E-04	1.59	up	KIF18B
8162019a	1.49E-02	1.50	up	KIF27;LOC389765
8045637a	5.30E-04	3.91	up	KIF5C
7922268a	9.70E-04	1.65	down	KIFAP3
8031311a	2.96E-02	1.52	down	KIR3DL1;KIR3DS1;KIR2DS2;KIR2DL5A;KIR2DL2;KIR2DL3
7923621a	8.51E-04	1.53	up	KISS1
8095110a	2.16E-03	3.71	up	KIT
7965322a	5.73E-04	1.94	down	KITLG

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8040211a	1.99E-04	1.83	down	KLF11
8163002a	4.17E-03	1.60	up	KLF4
7931810a	3.28E-05	1.98	down	KLF6
8015456a	4.42E-04	1.71	up	KLHL11
8171837a	7.55E-05	1.51	up	KLHL15
8046186a	5.42E-05	1.68	up	KLHL23;PHOSPHO2
8168622a	2.64E-06	5.82	down	KLHL4
8094625a	2.76E-05	2.38	down	KLHL5
8015349a	3.40E-02	3.02	up	KRT19
8015262a	3.65E-04	1.97	up	KRT33B
8015268a	2.28E-04	4.38	up	KRT34
8015208a	1.18E-03	1.76	up	KRTAP2-1;KRTAP2-2;KRTAP2-4;hCG_1749898;KAP2.1B
8019576a	8.62E-03	2.34	up	KRTAP2-4;KRTAP2-1;KRTAP2-2;hCG_1749898;KAP2.1B
8019699a	4.20E-04	1.55	up	KRTAP4-11;KRTAP4-8;KRTAP4-7
8019565a	8.18E-04	1.89	up	KRTAP4-12;KRTAP4-5;KRTAP4-2;KRTAP4-11
8007115a	2.16E-03	1.63	up	KRTAP4-9;KRTAP4-11;KRTAP4-8;KRTAP4-7
8175871a	2.51E-06	3.94	up	L1CAM
7984103a	3.87E-04	1.60	down	LACTB
8176093a	2.78E-04	1.78	down	LAGE3
8142194a	1.34E-03	2.05	down	LAMB1
7924029a	4.53E-02	1.63	up	LAMB3
7908041a	1.51E-03	1.63	down	LAMC1
7908072a	6.18E-06	4.55	down	LAMC2
8096938a	2.75E-05	1.52	down	LARP7
8025382a	1.57E-05	1.66	up	LASS4
7994535a	1.63E-04	1.53	up	LAT;SPNS1
8025828a	2.64E-03	1.55	down	LDLR
8175539a	1.50E-03	1.79	down	LDOC1
8145942a	1.16E-02	1.52	down	LETM2
7971150a	1.62E-04	1.67	down	LHFP
8075310a	3.44E-03	1.61	down	LIF;MGC20647
8077490a	3.00E-04	2.19	down	LMCD1
8107066a	8.57E-04	1.86	down	LNPEP
8036302a	8.51E-04	1.81	up	LOC100127980
8135585a	6.19E-03	1.88	down	LOC100128868
8155503a	7.67E-05	2.13	down	LOC100132167;LOC100292301
8161368a	2.11E-05	1.92	down	LOC100132167;LOC100292301
8161554a	8.40E-03	1.66	up	LOC100289528
8053379a	1.72E-03	1.59	up	LOC129293
8154727a	4.08E-04	1.66	up	LOC138412
8012282a	6.81E-04	1.76	up	LOC284023
8094226a	2.97E-04	1.66	down	LOC285550
7977270a	2.54E-02	1.62	down	LOC388022
8129039a	1.65E-03	1.53	up	LOC442249
8160431a	7.05E-05	3.38	down	LOC554202
8168412a	4.16E-04	1.62	down	LOC554203

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
7983132a	7.41E-06	1.55	down	LOC645106
7960889a	7.14E-04	1.57	up	LOC653113
7985431a	2.41E-02	1.63	up	LOC80154;LOC388152;LOC727751;LOC727849
8074925a	8.31E-05	1.51	down	LOC91316;GUSB;GUSBL1;LOC100294451
8077499a	1.52E-04	2.03	down	LOH3CR2A
7984771a	1.85E-04	2.00	down	LOXL1
7917276a	2.73E-02	1.85	up	LPAR3
7971565a	2.71E-05	2.31	down	LPAR6
7995697a	9.40E-05	2.57	down	LPCAT2
7902565a	4.40E-02	3.89	down	LPHN2
8040340a	1.06E-05	1.63	down	LPIN1
7948332a	4.56E-04	2.04	down	LPXN
7964602a	2.03E-03	1.63	down	LRIG3
7956301a	4.49E-03	1.71	down	LRP1
8152280a	3.08E-05	1.54	down	LRP12
7986394a	8.34E-05	1.70	down	LRRC28
8007850a	1.45E-03	3.01	up	LRRC37A;LRRC37A2;LRRC37A3;LRRC37A4;LOC100294335
7902235a	8.51E-03	2.57	up	LRRC7
8147079a	3.14E-02	1.75	down	LRRCC1
8150206a	9.78E-05	1.56	up	LSM12
7968126a	2.73E-05	1.80	up	LSP1
7905028a	1.26E-05	1.80	up	LSP1;LOC645166;LOC654342
7980152a	2.13E-04	2.44	down	LTBP2
8148572a	2.56E-04	1.83	up	LY6E
8178059a	1.36E-03	1.54	up	LY6G5B;CSNK2B
8056113a	5.30E-05	1.88	down	LY75;CD302
8146500a	1.45E-03	1.76	up	LYN
8045674a	2.03E-03	3.40	up	LYPD6
8045664a	1.26E-05	8.17	up	LYPD6B
8168458a	6.21E-05	1.79	up	MAGEE1
8167887a	2.11E-02	1.56	down	MAGEH1
8148040a	1.75E-02	4.86	up	MAL2
8170420a	2.59E-03	1.91	down	MAMLD1
8129254a	2.02E-06	3.08	up	MAN1A1
7961365a	8.42E-04	2.34	down	MANSC1
8106098a	1.57E-04	1.68	down	MAP1B
7997740a	1.11E-03	1.59	up	MAP1LC3B
7959023a	5.83E-04	1.63	up	MAP1LC3B2
8047926a	4.58E-05	1.81	down	MAP2
7984408a	6.63E-05	1.57	down	MAP2K5
8016194a	4.71E-02	1.51	up	MAP3K14;LOC100133991
8171653a	3.51E-04	2.16	up	MAP3K15;PDHA1
8129804a	2.53E-02	1.85	up	MAP3K5
8175369a	4.50E-07	2.03	down	MAP7D3
8101925a	5.61E-04	1.60	down	MAPKSP1
8103508a	4.89E-03	2.14	down	MARCH1

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
7909841a	4.36E-02	2.43	up	MARK1
8177498a	1.02E-02	1.83	down	MARVELD2
8147516a	2.48E-03	1.61	up	MATN2
8124166a	2.32E-02	1.66	up	MBOAT1
8161249a	5.89E-03	1.62	down	MCART1
8113551a	1.69E-03	1.63	down	MCC
7919751a	4.72E-05	1.50	down	MCL1
8129214a	1.77E-03	1.55	up	MCM9
7917283a	8.52E-03	1.66	up	MCOLN2
7917304a	1.35E-02	1.78	up	MCOLN3
7986293a	2.34E-02	2.22	up	MCTP2
8172119a	3.17E-05	1.57	down	MED14
7911799a	1.04E-05	1.58	down	MEGF6
8042356a	2.01E-04	3.48	down	MEIS1
8044391a	2.15E-04	2.13	up	MERTK
8011275a	5.87E-05	1.51	up	METT10D
8103695a	6.13E-03	1.50	up	MFAP3L
8149258a	6.39E-03	1.51	down	MFHAS1
8054135a	3.66E-02	1.71	up	MGAT4A
8045349a	1.81E-04	1.53	up	MGAT5
8007799a	7.14E-05	2.11	up	MGC57346
8042574a	3.28E-02	1.50	up	MGC72080;DAPL1;LOC441453
8097513a	5.52E-04	2.03	down	MGST2
8171297a	1.26E-04	2.54	down	MID1
7932733a	4.00E-04	2.81	up	MKX
8078544a	7.08E-04	1.56	down	MLH1
8002778a	3.27E-02	1.54	down	MLKL
7905329a	3.06E-04	2.91	down	MLLT11
8016832a	1.60E-04	1.61	down	MMD
8083494a	3.01E-02	2.28	up	MME
8151684a	8.43E-03	1.92	down	MMP16
8151686a	5.85E-03	1.85	down	MMP16
7995681a	6.43E-06	4.12	down	MMP2
8160521a	3.72E-02	1.84	up	MOBKL2B
8020955a	5.97E-03	1.73	up	MOCOS
7909877a	7.86E-03	1.85	up	MOSC1
8160088a	6.54E-04	1.50	down	MPDZ
8176174a	1.83E-04	1.75	down	MPP1
8015868a	1.53E-03	1.51	up	MPP2
8058273a	3.93E-02	1.57	down	MPP4
7932765a	1.22E-04	4.54	up	MPP7
8009040a	7.46E-04	1.91	down	MRC2
8179139a	3.73E-05	1.52	up	MRPS18B
8159249a	5.92E-05	1.53	up	MRPS2
8105181a	2.54E-04	2.18	up	MRPS30
8105852a	3.50E-03	1.59	down	MRPS36

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8151334a	8.94E-08	3.50	down	MSC
8106633a	6.92E-03	1.51	down	MSH3
7992071a	1.53E-03	1.73	down	MSLN
8176219a	5.37E-05	1.84	down	MTCP1;MTCP1NB
8170428a	1.38E-05	2.28	down	MTM1
8170443a	1.74E-05	1.79	down	MTMR1
7970655a	2.27E-04	1.54	down	MTMR6
8104422a	7.86E-04	1.69	up	MTRR
7920642a	2.78E-02	1.65	down	MUC1
8068713a	3.31E-02	1.54	up	MX1
8098995a	5.88E-05	1.70	down	MXD4
8011640a	2.37E-05	1.60	up	MYBBP1A;SPNS2
8117020a	7.02E-04	2.01	up	MYLIP
7990092a	2.05E-04	1.59	down	MYO9A
8101086a	5.38E-05	1.96	down	NAAA
8141872a	2.23E-03	2.06	down	NAPEPLD
7939265a	7.41E-06	1.83	up	NAT10
8093578a	6.96E-05	1.59	up	NAT8L
7922773a	2.83E-02	1.54	down	NCF2
8000957a	3.91E-04	1.73	up	NCRNA00095
8169659a	4.97E-04	1.56	down	NDUFA1
7987642a	8.22E-04	1.69	down	NDUFAF1
7989094a	5.95E-07	3.14	down	NEDD4
7916986a	2.46E-02	1.90	down	NEGR1
8103646a	1.83E-05	1.77	down	NEK1
8082643a	2.08E-02	1.52	up	NEK11
7971780a	5.47E-04	1.87	down	NEK3
8001197a	8.57E-03	1.53	down	NETO2
7901788a	2.93E-04	2.52	down	NFIA
8160138a	2.13E-03	1.56	down	NFIB
8028552a	3.13E-04	1.63	up	NFKBIB
8109563a	1.43E-02	1.78	up	NIPAL4
8014214a	2.53E-04	1.67	up	NLE1
7995926a	6.26E-05	1.56	down	NLRC5
7946334a	3.21E-04	2.36	up	NLRP10
8083757a	2.57E-04	1.51	up	NMD3
8055702a	7.96E-03	1.62	down	NMI
7932227a	2.15E-03	1.76	down	NMT2
8100464a	2.52E-03	2.70	up	NMU
7943998a	2.50E-03	1.53	up	NNMT
8165217a	1.87E-04	1.61	up	NOTCH1
8148049a	2.72E-04	3.57	up	NOV
7950933a	2.30E-05	8.16	up	NOX4
8043909a	2.62E-02	1.52	up	NPAS2
7993359a	5.39E-03	1.88	up	NPIP;LOC339047;NPIPL2;LOC399491;LOC730153;NPIPL3
7912520a	1.06E-03	9.70	up	NPPB

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8104746a	8.57E-06	18.52	down	NPR3
7990253a	1.77E-05	1.69	down	NPTN
8002303a	5.21E-03	1.52	down	NQO1
8035628a	2.43E-03	1.58	down	NR2C2AP;RFXANK
8103094a	1.65E-03	2.03	down	NR3C2
7946446a	4.00E-02	1.51	up	NRIP3
8169115a	6.12E-03	3.28	up	NRK
8123739a	2.67E-02	1.80	down	NRN1
7976012a	3.57E-03	3.65	up	NRXN3
8170590a	1.25E-05	1.57	down	NSDHL
8110894a	2.09E-04	1.70	up	NSUN2
8138941a	2.09E-03	1.81	up	NT5C3
8087935a	1.45E-03	1.54	down	NT5DC2
8120967a	8.20E-03	2.26	up	NT5E
7923753a	1.47E-05	2.00	down	NUAK2
7993185a	2.64E-06	1.51	up	NUBP1
8085431a	1.58E-05	3.50	up	NUP210
8000574a	1.95E-03	1.66	down	NUPR1
7936134a	3.77E-04	1.74	down	OBFC1
8100298a	1.16E-04	2.36	down	OCIAD2
8109752a	2.12E-03	3.40	up	ODZ2
8120602a	2.07E-04	1.59	down	OGFRL1
7961142a	3.37E-04	7.11	up	OLR1
8173310a	4.16E-04	1.63	down	OPHN1
8011320a	4.38E-04	1.51	down	OR1D5;OR1D4
8143629a	7.72E-04	1.73	down	OR2A9P;OR2A20P;OR2A5
7911231a	6.98E-04	1.62	up	OR2W3
8147573a	3.08E-04	1.69	up	OSR2
7982294a	9.75E-03	1.51	down	OTUD7A;MGC131512
8085138a	5.15E-03	3.30	up	OXTR
8011415a	1.07E-04	2.67	up	P2RX5
7950374a	2.41E-04	1.88	down	P4HA3
7912937a	1.79E-04	1.50	up	PADI2
8151512a	1.74E-03	1.84	down	PAG1
8169389a	1.02E-05	1.71	down	PAK3
8098263a	2.03E-03	1.67	down	PALLD
8102214a	7.35E-05	1.96	down	PAPSS1
7981943a	8.22E-03	2.26	down	PAR5;SNORD64
7965112a	6.60E-05	1.77	down	PAWR
7947338a	5.60E-03	3.14	up	PAX6
8087806a	5.28E-03	1.52	down	PCBP4
7969330a	8.04E-05	1.58	up	PCDH17
8091243a	4.81E-03	1.58	up	PCOLCE2
7930454a	1.42E-02	1.57	down	PDCD4
8102532a	2.42E-03	1.50	up	PDE5A
7985662a	2.13E-04	1.50	down	PDE8A

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8137670a	2.22E-02	1.79	down	PDGFA;LOC100132080
8076195a	5.68E-04	1.96	down	PDGFB
8103399a	2.66E-05	2.17	down	PDGFC
8166511a	2.17E-04	2.05	up	PDK3
8107897a	1.33E-03	2.15	down	PDLIM4
8096489a	1.70E-03	1.71	down	PDLIM5
8104693a	2.43E-03	1.65	down	PDZD2
7906264a	2.36E-04	1.81	down	PEAR1
8134339a	7.05E-05	3.07	up	PEG10
8013120a	1.49E-03	1.54	up	PEMT
7897378a	5.69E-04	1.72	down	PER3;UTS2
8129880a	7.75E-05	4.72	up	PERP
8075406a	3.18E-05	1.51	up	PES1
8004804a	3.95E-04	1.54	up	PFAS
8134098a	2.02E-06	3.33	down	PFTK1
7929624a	1.31E-04	1.63	up	PGAM1;PGAM4
8147469a	3.21E-02	1.74	down	PGCP
7980233a	1.18E-05	2.44	down	PGF
7950391a	1.47E-03	2.02	down	PGM2L1
8122426a	1.02E-03	1.74	down	PHACTR2
7953812a	8.09E-03	2.04	up	PHC1;M6PR
7969129a	1.96E-02	1.52	down	PHF11
8173551a	3.86E-02	1.56	up	PHKA1
7995382a	1.29E-04	1.69	down	PHKB
7983811a	2.69E-04	1.64	down	PIGB;CCPG1
7922330a	7.45E-04	1.57	down	PIGC
8051993a	4.80E-04	1.75	down	PIGF
8075483a	4.01E-04	1.56	down	PIK3IP1
7915787a	2.67E-03	1.84	down	PIK3R3
8168366a	2.27E-03	1.51	down	PIN4
8009353a	2.19E-03	1.59	down	PITPNC1
8101429a	2.66E-03	2.94	up	PLAC8
8150509a	2.38E-03	2.68	up	PLAT
7928429a	1.29E-02	1.73	down	PLAU;C10orf55
8086185a	6.21E-05	1.55	down	PLCD1
7929388a	4.29E-05	2.57	down	PLCE1
8078187a	5.76E-04	2.01	up	PLCL2
8176286a	1.05E-04	2.51	up	PLCXD1
8013068a	1.91E-05	1.75	up	PLD6
7979710a	7.55E-04	2.01	down	PLEK2
8145977a	5.00E-03	1.57	down	PLEKHA2
8028656a	6.37E-04	1.55	down	PLEKHG2
7996516a	8.55E-04	1.69	down	PLEKHG4
7905116a	2.84E-04	1.63	down	PLEKHO1
8112202a	8.17E-04	1.52	up	PLK2
8083146a	3.64E-04	1.63	up	PLS1

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8169473a	1.67E-05	1.66	down	PLS3
8170921a	1.20E-04	1.78	down	PLXNA3
8067233a	5.95E-07	4.22	down	PMEPA1
7993148a	3.28E-04	1.62	up	PMM2
8012896a	1.06E-03	1.91	up	PMP22
8082368a	1.12E-02	1.55	up	PODXL2
8166525a	1.22E-04	1.55	up	POLA1
8106820a	3.10E-02	2.01	up	POLR3G
8133331a	3.02E-02	1.54	up	POM121;POM121C
7971077a	2.23E-03	2.63	down	POSTN
7930980a	3.52E-04	3.09	down	PPAPDC1A
7942503a	2.40E-04	1.86	up	PPME1
8134351a	3.14E-02	1.60	up	PPP1R9A
8150126a	1.88E-04	1.53	down	PPP2CB
8114900a	2.43E-04	4.72	up	PPP2R2B
8149250a	1.53E-03	1.51	down	PRAGMIN
8121257a	6.27E-04	2.37	up	PRDM1
7962375a	3.27E-04	2.60	down	PRICKLE1
8088550a	2.93E-04	2.18	down	PRICKLE2
7901720a	6.21E-03	5.15	up	PRKAA2
8143961a	1.68E-04	1.55	down	PRKAG2
8137675a	1.04E-05	1.75	up	PRKAR1B
8135378a	3.92E-03	2.66	up	PRKAR2B
8041763a	1.39E-04	1.58	down	PRKCE
8171182a	6.85E-04	2.19	up	PRKX
8176460a	2.03E-04	1.72	down	PRKY
8111490a	3.57E-04	1.78	up	PRLR
7924817a	5.78E-04	1.80	down	PRO2012
8089011a	1.39E-03	2.25	down	PROS1
8089015a	3.54E-03	2.00	down	PROS1
8166049a	1.31E-04	1.86	up	PRPS2
8107563a	3.89E-02	1.63	down	PRR16
8166705a	8.57E-06	2.12	down	PRRG1;TSPAN7
8102468a	7.92E-04	2.43	up	PRSS12
8161884a	2.80E-03	2.82	down	PRUNE2
8161865a	2.10E-03	2.76	down	PRUNE2
8177323a	1.80E-02	1.55	up	PRY;PRY2
8037240a	8.19E-04	5.66	up	PSG1
8037267a	1.06E-03	10.91	up	PSG2
8037231a	8.66E-04	7.96	up	PSG3
8037283a	4.13E-03	2.89	up	PSG4;PSG1
8037272a	1.35E-04	7.70	up	PSG5;PSG3;PSG7;PSG8;PSG4;PSG1
8037246a	3.43E-03	1.69	up	PSG6
8037251a	6.57E-04	5.19	up	PSG7;PSG8;PSG4;PSG3;PSG1;PSG9;PSG5;PSG6
8037290a	7.31E-04	2.38	up	PSG9;PSG11
8002133a	2.95E-05	1.58	down	PSMB10;CTRL

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8180049a	4.04E-03	1.52	down	PSMB8
8162533a	2.08E-03	1.64	up	PTCH1
7915612a	9.98E-03	1.53	up	PTCH2
7926356a	1.93E-02	2.02	up	PTER;C1QL3
7962000a	2.59E-05	1.68	down	PTHLH
7932420a	2.55E-04	1.99	down	PTPLA
7939818a	3.04E-05	1.54	up	PTPMT1
8096176a	1.44E-02	4.19	up	PTPN13
7980616a	2.16E-04	1.78	down	PTPN21
7931353a	6.82E-05	1.85	down	PTPRE
8080810a	6.50E-03	1.71	down	PTPRG
8083594a	3.34E-02	2.79	down	PTX3
8069003a	2.45E-04	1.55	up	PWP2
8050007a	1.43E-03	1.60	up	PXDN
8151436a	2.97E-05	1.61	down	PXMP3
7979085a	7.72E-05	1.69	up	PYGL
8041508a	2.58E-03	1.78	down	QPCT
8165094a	3.55E-04	1.83	up	QSOX2
8150225a	4.67E-04	1.52	down	RAB11FIP1
7989023a	6.83E-06	2.62	down	RAB27A
7950743a	3.60E-03	1.76	down	RAB30
8020110a	5.38E-04	1.61	down	RAB31
7950899a	1.58E-02	2.08	up	RAB38
8174271a	1.10E-03	1.62	down	RAB9B
8075910a	3.10E-03	1.62	down	RAC2
8177478a	3.67E-03	1.52	down	RAD17
7982792a	2.47E-04	1.54	down	RAD51
8164810a	2.37E-03	1.57	up	RALGDS
7907657a	6.38E-03	1.73	down	RALGPS2
8096538a	1.01E-04	1.69	down	RAP1GDS1
8098121a	9.64E-06	1.87	down	RAPGEF2
7963631a	5.14E-05	1.60	down	RARG
8106784a	1.51E-03	1.92	down	RASA1
7987405a	1.27E-03	2.03	up	RASGRP1
8041422a	4.75E-04	2.30	up	RASGRP3
7902023a	1.20E-02	2.23	up	RAVER2
7995631a	5.24E-05	1.57	down	RBL2
8067869a	1.57E-04	1.72	up	RBM11
8078330a	4.91E-05	2.83	down	RBMS3
7897522a	1.22E-04	3.87	up	RBP7
7971573a	6.20E-04	1.56	down	RCBTB2
7899462a	1.04E-05	1.55	up	RCC1;SNHG3-RCC1
7986186a	2.51E-05	1.54	down	RCCD1
8053551a	3.91E-03	1.85	up	REEP1
8165672a	3.83E-02	1.68	up	RFC1
7919971a	8.57E-04	1.67	down	RFX5

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
7989132a	4.24E-04	1.75	down	RFX7
7908125a	7.58E-04	1.55	down	RGL1
8107100a	2.26E-02	1.59	down	RGMB
7908409a	2.45E-02	1.62	up	RGS2
7906919a	2.44E-03	6.40	down	RGS4
7925457a	1.92E-03	2.50	up	RGS7
8040473a	4.03E-05	2.39	down	RHOB
8106986a	1.01E-02	1.91	down	RHOBTB3
8074591a	2.01E-03	1.75	up	RIMBP3B;RIMBP3C
8070489a	1.29E-03	2.17	down	RIPK4
8111286a	2.99E-03	1.58	up	RNASEN
7904830a	9.22E-04	1.71	down	RNF115
8020806a	2.85E-04	1.50	up	RNF125
8117106a	9.78E-05	2.27	up	RNF144B
8018652a	4.02E-03	1.53	down	RNF157
8121825a	4.21E-03	1.52	down	RNF217
7948894a	1.30E-03	3.21	down	RNU2-1;RNU2-2;WDR74
7967028a	1.79E-04	2.13	down	RNU4-2
8044961a	1.48E-02	1.52	down	RNU4ATAC
7984259a	8.55E-04	1.60	down	RNU5B-1
7915592a	2.20E-02	1.57	down	RNU5F
8050302a	6.39E-04	1.53	down	ROCK2
8104492a	3.23E-02	1.58	up	ROPN1L
8162283a	2.18E-02	1.58	up	ROR2
8167006a	1.41E-04	1.58	down	RP2
8064868a	9.65E-04	1.96	down	RP5-1022P6.2
8169949a	1.04E-03	8.20	up	RP6-213H19.1
8170859a	2.17E-03	1.96	down	RPL10
7938295a	1.85E-03	1.69	up	RPL27A
7938286a	1.53E-04	1.64	up	RPL27A
7928551a	3.32E-03	1.57	up	RPS24
8176375a	3.36E-04	28.36	down	RPS4Y1
8176730a	2.55E-04	1.96	down	RPS4Y2
8130739a	2.28E-04	2.02	down	RPS6KA2
7964733a	4.13E-02	1.50	up	RPSAP52
8027354a	9.12E-03	1.96	up	RPSAP58
8038407a	3.17E-05	1.64	down	RRAS
7935425a	6.91E-05	1.72	up	RRP12
7999520a	5.24E-06	1.69	up	RSL1D1
7933855a	2.41E-03	1.71	down	RTKN2
8007435a	8.83E-05	1.64	up	RUNDC1
8133961a	1.05E-02	1.53	up	RUNDC3B
7920128a	7.98E-04	1.56	down	S100A11
8156278a	9.10E-04	1.54	down	S1PR3;C9orf47
8152506a	1.20E-04	6.51	up	SAMD12
8140967a	1.41E-03	1.86	down	SAMD9

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8140971a	9.39E-03	1.88	down	SAMD9L
8005865a	1.54E-03	1.68	up	SARM1;TMEM199
8085716a	8.94E-06	4.55	up	SATB1
8058091a	5.51E-06	4.70	up	SATB2
8098195a	5.17E-04	1.79	down	SC4MOL
8124594a	2.41E-03	1.57	down	SCAND3
7990582a	3.05E-05	1.63	down	SCAPER
7967544a	1.27E-05	2.05	up	SCARB1
8093576a	3.55E-03	1.58	down	SCARNA22
8171758a	1.40E-02	2.02	up	SCARNA9L
7929816a	8.19E-04	2.14	up	SCD
8100347a	1.48E-03	1.51	down	SCFD2
8171561a	1.77E-03	1.67	up	SCML2
8072328a	3.65E-04	1.65	down	SEC14L2;MTP18
8086406a	9.10E-04	1.53	down	SEC22C
8075462a	4.60E-04	1.57	up	SELM
8140668a	7.14E-04	6.51	down	SEMA3A
8140534a	1.38E-04	1.88	down	SEMA3C
8140686a	7.39E-03	3.16	up	SEMA3D
8079896a	1.37E-04	1.51	down	SEMA3F
8162236a	9.06E-04	2.89	up	SEMA4D
7990345a	2.95E-03	1.87	down	SEMA7A
8177658a	4.01E-04	1.62	down	SERF1A;SERF1B
7968892a	2.83E-04	1.77	down	SERP2
7981068a	7.73E-05	2.06	down	SERPINA1
7976496a	8.57E-06	3.70	down	SERPINA3
8021623a	2.07E-02	2.35	down	SERPINB7
8123609a	2.24E-04	1.65	down	SERPINB9
8036908a	2.95E-03	1.52	down	SERTAD3
8021047a	4.01E-04	1.64	down	SETBP1
7969114a	7.81E-05	1.58	down	SETDB2
8077370a	3.43E-03	2.15	down	SETMAR
7931951a	1.23E-02	1.89	down	SFMBT2
7929919a	4.00E-05	1.77	down	SFXN3
8083471a	1.78E-04	5.63	up	SGEF
8129677a	7.28E-03	1.72	down	SGK1
8168557a	1.75E-03	1.82	down	SH3BGRL
8103166a	6.31E-05	1.99	down	SH3D19
7970676a	9.41E-05	2.68	down	SHISA2
8095834a	1.26E-05	1.82	down	SHROOM3
8068496a	1.27E-04	1.99	up	SIM2
7925062a	1.33E-02	1.89	down	SIPA1L2
8060418a	3.04E-05	3.25	down	SIRPA
7979510a	3.37E-04	1.66	up	SIX4
7969533a	8.08E-03	2.33	up	SLAIN1
8176109a	1.79E-04	1.70	down	SLC10A3

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
7987192a	9.30E-05	1.65	down	SLC12A6
8090214a	2.31E-02	1.54	up	SLC12A8
8066757a	2.36E-02	1.52	up	SLC13A3
7918622a	1.04E-05	1.56	up	SLC16A1
8059642a	2.07E-02	2.40	down	SLC16A14
8070912a	7.12E-05	1.90	up	SLC19A1
8154135a	2.57E-03	1.78	up	SLC1A1
8018352a	1.27E-04	1.55	up	SLC25A19
8087224a	8.15E-03	1.54	down	SLC25A20
8145291a	1.81E-04	2.32	down	SLC25A37
8145281a	7.46E-03	1.52	down	SLC25A37
8177003a	1.60E-04	1.58	up	SLC25A6;LOC138412
7983650a	3.93E-04	6.17	up	SLC27A2
7988426a	1.74E-04	1.71	down	SLC30A4
7951485a	3.37E-04	1.53	up	SLC35F2
7950990a	8.57E-06	1.81	up	SLC36A4
8079931a	9.34E-03	1.62	up	SLC38A3
7962559a	3.19E-02	1.69	down	SLC38A4
7965964a	1.79E-04	2.06	down	SLC41A2
8013616a	1.71E-03	1.67	up	SLC46A1;SARM1;TMEM199
7970793a	9.06E-04	2.41	down	SLC46A3
8085914a	4.17E-03	1.54	down	SLC4A7
7965206a	3.49E-03	2.55	up	SLC6A15
8051762a	1.12E-04	2.94	down	SLC8A1
8172280a	3.16E-03	1.61	up	SLC9A7
8063923a	8.57E-06	3.64	up	SLCO4A1;hCG_2018279
8113369a	1.92E-04	1.64	up	SLCO4C1
8014233a	9.11E-04	1.65	up	SLFN11
8115691a	5.95E-07	2.62	down	SLIT3
7984364a	5.06E-05	1.74	down	SMAD3
7984353a	3.84E-05	1.96	down	SMAD6
8023220a	5.35E-05	1.74	down	SMAD7
7971015a	4.09E-03	1.97	down	SMAD9
8136080a	3.04E-05	1.79	up	SMO
8063382a	8.28E-06	2.29	down	SNAI1
7951032a	6.09E-04	1.57	up	SNORA1
7938293a	1.09E-04	1.53	up	SNORA45
8001748a	9.26E-04	1.64	down	SNORA50
8170992a	7.88E-05	2.16	down	SNORA56
8170863a	4.86E-05	2.29	down	SNORA70;RPL10
7981949a	5.81E-03	3.09	down	SNORD116-1
7981976a	2.91E-04	21.47	down	SNORD116-14
7981978a	3.95E-04	16.17	down	SNORD116-15
7981986a	2.30E-04	20.31	down	SNORD116-14-22
7981988a	6.24E-04	11.53	down	SNORD116-20;SNORD116@
7981990a	1.27E-04	12.47	down	SNORD116-21;SNORD116@

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
7981994a	4.80E-02	1.53	down	SNORD116-23
7981996a	2.69E-03	4.81	down	SNORD116-24
7981998a	6.04E-03	1.51	down	SNORD116-25
7981966a	2.10E-03	5.82	down	SNORD116-3;SNORD116-7-9;SNORD116-5
7981955a	2.91E-03	2.24	down	SNORD116-4;SNRPN
7981962a	1.32E-02	3.20	down	SNORD116-5;SNORD116-7;SNORD116-3;SNORD116-9
7981964a	5.91E-04	4.44	down	SNORD116-8;SNORD116-3;SNORD116-9
8034512a	4.85E-02	1.52	down	SNORD41
7951030a	4.86E-05	1.52	up	SNORD6
7981919a	2.06E-04	4.41	down	SNRPN;SNURF
7990528a	7.41E-06	2.95	down	SNUPN
8131957a	2.58E-02	1.96	up	SNX10
7985016a	2.88E-05	1.67	down	SNX33
7983393a	4.41E-03	1.60	up	SORD
7978932a	7.81E-05	1.71	down	SOS2
8117165a	7.46E-04	1.58	down	SOX4
8175543a	3.40E-03	1.87	down	SPANXC;SPANXA1;SPANXA2;SPANXD;SPANXE
8133654a	5.57E-03	1.68	down	SPDYE5-8;SPDYE1-3
7988286a	3.08E-05	1.75	down	SPG11;ISLR
8173208a	6.20E-05	1.52	down	SPIN4
8097282a	4.89E-04	1.73	up	SPRY1
7972217a	1.63E-02	1.51	down	SPRY2
8060997a	1.65E-04	7.66	down	SPTLC3
7983512a	4.30E-04	2.74	down	SQRDL
8112940a	1.56E-03	3.32	down	SSBP2
8170775a	1.96E-04	1.55	down	SSR4
7974047a	5.84E-04	2.74	up	SSTR1
8153021a	2.21E-03	2.08	down	ST3GAL1
7970924a	1.26E-05	1.71	down	STARD13
7983143a	1.61E-04	1.64	down	STARD9
7914904a	7.46E-04	1.55	up	STK40
8122457a	2.05E-04	1.92	down	STX11
7899361a	1.16E-05	1.50	down	STX12
8122600a	2.65E-04	1.85	down	STXBP5
7978376a	6.33E-06	4.80	up	STXBP6
8066822a	7.40E-05	2.98	down	SULF2
8086051a	1.44E-03	1.96	down	SUSD5
7919645a	1.11E-03	1.85	down	SV2A
8163202a	6.21E-05	1.90	down	SVEP1
7932796a	2.68E-04	2.52	down	SVIL
7947147a	5.21E-05	2.59	up	SVIP
8067305a	2.19E-05	2.01	down	SYCP2
7914557a	6.83E-06	2.06	down	SYNC
8010243a	8.87E-06	1.99	up	SYNGR2
7986385a	4.78E-04	1.71	down	SYNM
7909494a	2.63E-02	2.04	down	SYT14

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8123080a	4.25E-03	1.61	down	SYTL3
8173955a	8.45E-06	2.04	down	SYTL4
7916584a	2.77E-02	1.61	down	TACSTD2
8020702a	8.44E-03	1.50	up	TAF4B
8094476a	1.45E-05	2.39	down	TBC1D19
7990657a	6.88E-04	1.52	down	TBC1D2B
7985224a	1.44E-03	1.66	down	TBC1D2B;LOC646938
8169186a	4.84E-03	1.55	down	TBC1D8B
8102912a	5.37E-05	1.77	down	TBC1D9
8102171a	1.47E-03	1.75	down	TBCK
8169049a	1.51E-04	1.53	down	TCEAL1
8169035a	1.29E-05	1.52	down	TCEAL4
8174134a	6.83E-06	1.63	down	TCEAL6;TCEAL3;TCEAL2
8109254a	4.80E-04	1.50	up	TCOF1
8135576a	1.41E-03	2.36	down	TES
8096675a	8.55E-04	1.82	down	TET2
8096669a	6.16E-04	1.70	down	TET2
8063536a	2.55E-05	6.05	up	TFAP2C
7999102a	2.35E-04	1.63	up	TFAP4
8057599a	3.20E-05	2.48	down	TFPI
8037005a	3.40E-04	1.80	down	TGFB1
7909789a	5.27E-04	1.91	down	TGFB2
8108217a	1.92E-04	1.86	down	TGFBI
8078350a	1.18E-04	2.59	down	TGFBR2
8168646a	2.96E-03	2.94	up	TGIF2LX;TGIF2LY
8066214a	3.38E-03	2.75	up	TGM2
8065353a	6.97E-05	1.87	down	THBD
8085797a	7.14E-04	2.05	down	THRB
7952869a	1.10E-05	1.54	down	THYN1
8122933a	8.55E-04	1.68	down	TIAM2
8102362a	4.45E-04	1.63	down	TIFA
8072626a	8.94E-06	9.68	up	TIMP3
8075635a	6.26E-05	3.39	up	TIMP3
8001818a	5.30E-04	1.95	down	TK2
8156060a	3.39E-03	1.69	up	TLE4
8098214a	8.57E-06	7.28	down	TLL1
8098611a	3.16E-04	2.35	down	TLR3
8157524a	5.71E-03	5.34	down	TLR4
8109969a	1.54E-03	1.73	up	TLX3
7991630a	4.77E-04	1.56	down	TM2D3
8015900a	2.00E-03	1.56	up	TMEM101
8099099a	4.30E-05	1.57	down	TMEM128
8098041a	4.55E-03	1.86	up	TMEM144
8120239a	3.59E-03	1.73	down	TMEM14A
8099850a	6.91E-05	3.29	down	TMEM156
8106170a	2.07E-02	1.55	up	TMEM171

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8044844a	7.40E-05	1.50	up	TMEM177
7999317a	5.49E-04	1.53	up	TMEM186
7897469a	2.47E-05	1.85	up	TMEM201
8154760a	2.61E-05	2.70	up	TMEM215
7952484a	3.92E-04	1.55	down	TMEM218
8157092a	3.20E-03	1.84	up	TMEM38B
8089759a	4.48E-04	1.53	up	TMEM39A
8081288a	5.79E-03	1.83	down	TMEM45A
7903162a	2.17E-03	1.70	down	TMEM56
8006415a	1.65E-02	2.91	up	TMEM98
8176255a	7.53E-05	2.05	down	TMLHE
7983734a	6.62E-04	2.77	down	TMOD2
7983744a	7.05E-05	1.77	down	TMOD3
8169073a	3.37E-05	2.44	down	TMSB15B;H2BFXP
8064939a	2.61E-02	1.77	down	TMX4
8107520a	7.14E-04	2.00	down	TNFAIP8
7988763a	5.76E-05	2.61	down	TNFAIP8L3
8152512a	2.85E-02	2.62	up	TNFRSF11B
8126839a	1.72E-02	2.06	down	TNFRSF21
8092095a	4.58E-03	2.14	up	TNIK
8058869a	1.30E-04	2.13	down	TNS1
8150962a	5.17E-03	4.16	up	TOX
8050702a	6.06E-03	1.54	down	TP53I3
8151890a	4.37E-04	1.70	down	TP53INP1
7958960a	9.40E-03	1.86	up	TPCN1
8151475a	1.92E-04	1.63	up	TPD52
8143643a	2.20E-05	1.57	down	TPK1
7984079a	2.12E-04	1.69	down	TPM1
8153175a	8.42E-04	1.57	down	TRAPPC9
8040365a	4.87E-05	2.28	down	TRIB2
8162729a	2.88E-05	1.55	up	TRIM14
8005475a	4.76E-02	1.64	down	TRIM16L
8136473a	2.18E-04	1.52	up	TRIM24
8113577a	1.04E-02	1.57	up	TRIM36
8146669a	1.28E-02	1.75	down	TRIM55
7911218a	6.84E-03	2.03	up	TRIM58;OR2W3
8091757a	6.22E-03	1.53	up	TRIM59
7984190a	6.64E-05	1.61	down	TRIP4
8077353a	4.42E-03	1.59	down	TRNT1
7971104a	1.24E-04	7.80	down	TRPC4
7988713a	1.04E-05	1.53	down	TRPM7
8174361a	3.53E-05	1.89	down	TSC22D3
8142524a	2.88E-02	1.54	up	TSPAN12
8131600a	3.81E-04	2.62	up	TSPAN13
7928046a	5.20E-04	2.13	down	TSPAN15
8101828a	5.69E-03	1.64	down	TSPAN5

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
7953166a	1.59E-04	1.60	up	TSPAN9
8011245a	1.74E-05	1.50	up	TSR1;SRR
8153474a	2.22E-03	1.65	down	TSTA3
7991485a	9.41E-05	1.53	down	TTC23
8136495a	7.53E-05	1.86	up	TTC26
8075142a	1.33E-02	1.51	down	TTC28;LOC284900
8113157a	4.60E-03	1.58	down	TTC37
7917199a	7.78E-03	1.56	down	TTLL7
7963054a	8.97E-04	2.21	down	TUBA1A
8059177a	4.61E-05	2.20	down	TUBA4A
8007312a	1.39E-04	1.59	up	TUBG2
7905428a	6.24E-04	1.60	down	TUFT1
8023450a	1.77E-03	1.52	down	TXNL1
7990054a	5.89E-05	1.72	down	UACA
8087485a	7.07E-04	1.53	down	UBA7
8102024a	1.11E-02	1.65	down	UBE2D3
8176098a	1.03E-04	1.78	down	UBL4A
7987981a	7.18E-05	1.52	down	UBR1
7950307a	3.50E-05	2.59	up	UCP2
7906662a	4.67E-04	1.70	down	UFC1
8111524a	9.83E-03	1.59	up	UGT3A2
8097017a	2.64E-06	6.42	up	UGT8
8122724a	1.09E-03	2.27	up	ULBP1
8095868a	2.83E-03	1.65	down	UNQ3028
7960362a	2.67E-03	1.61	up	UNQ3104
7952451a	7.25E-04	1.59	down	UNQ565
8069943a	2.23E-03	1.51	up	URB1
7997633a	1.17E-04	1.52	up	USP10
7970696a	3.66E-03	1.57	down	USP12
8158568a	8.42E-04	1.52	up	USP20
8067903a	1.16E-05	1.87	down	USP25
7951752a	7.92E-04	1.53	up	USP28
8166826a	5.35E-05	1.63	down	USP9X
8176578a	1.06E-04	7.84	down	USP9Y
8122464a	2.05E-04	1.64	down	UTRN
8177137a	3.09E-04	6.17	down	UTY
8176962a	1.72E-05	1.57	down	VAMP7
7992967a	9.49E-05	1.70	down	VASN
8171013a	4.66E-05	1.63	down	VBP1
8106743a	4.61E-02	1.65	up	VCAN
7962689a	4.63E-03	1.54	down	VDR
8154100a	1.27E-02	1.66	down	VLDLR
8153776a	6.20E-05	1.61	down	VPS28
7971820a	1.62E-04	1.51	down	VPS36
8138277a	1.23E-03	1.68	up	VWDE
8138258a	1.18E-02	1.52	up	VWDE

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8169022a	5.86E-05	1.68	down	WBP5
8098379a	1.62E-03	2.40	up	WDR17
8094638a	1.09E-03	1.52	down	WDR19
8070615a	1.07E-03	1.51	up	WDR4
8112746a	7.25E-04	1.66	down	WDR41
7990700a	9.07E-05	1.51	down	WDR61
7959330a	6.21E-05	1.72	up	WDR66
8021312a	2.57E-03	1.72	down	WDR7
8104998a	4.02E-03	1.50	up	WDR70
8088180a	8.22E-03	4.13	up	WNT5A
8073311a	1.92E-03	1.58	up	XPNPEP3
8173752a	1.79E-02	2.04	down	ZCCHC5
8144758a	1.98E-03	1.53	down	ZDHHC2
7926916a	8.45E-06	3.22	down	ZEB1
8147000a	7.99E-04	2.38	down	ZFHX4
8176384a	3.48E-04	8.28	down	ZFY
7901426a	6.31E-05	1.66	up	ZFYVE9
8170602a	2.75E-02	1.72	down	ZNF185
8153935a	7.66E-04	1.79	down	ZNF252
8027241a	1.93E-02	1.89	up	ZNF253;ZNF93
7951838a	4.91E-05	1.53	up	ZNF259
8074845a	4.56E-03	1.90	down	ZNF280B
7989159a	2.21E-04	1.61	down	ZNF280D
8115196a	1.17E-03	8.33	down	ZNF300
7933186a	4.14E-04	2.28	down	ZNF32
8039006a	3.69E-03	1.88	up	ZNF320
8066745a	1.85E-04	1.61	down	ZNF334
8039054a	2.43E-04	2.74	up	ZNF347
8037355a	1.65E-04	1.55	down	ZNF428
8035813a	8.63E-03	2.75	up	ZNF43
8034393a	8.06E-03	1.66	down	ZNF443
8157193a	9.01E-04	1.79	up	ZNF483
8079224a	1.02E-02	1.59	down	ZNF502
8035773a	1.23E-02	4.40	up	ZNF506
8023882a	8.87E-06	2.13	down	ZNF516
7929562a	2.09E-04	1.63	down	ZNF518A
8099364a	8.57E-06	3.20	up	ZNF518B
8030931a	4.41E-03	1.89	up	ZNF528
8024527a	1.52E-04	2.00	up	ZNF556
8148276a	1.43E-03	1.94	up	ZNF572
8113761a	4.57E-04	2.36	down	ZNF608
8038952a	2.05E-03	1.57	down	ZNF616
8035795a	9.03E-04	2.05	up	ZNF626
8039680a	5.38E-04	1.66	up	ZNF671
8039070a	2.76E-02	1.53	up	ZNF677
8030950a	1.73E-04	2.18	up	ZNF701

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8039025a	2.08E-03	1.85	up	ZNF702P
8168589a	8.57E-06	6.99	up	ZNF711
8027363a	2.57E-02	1.70	up	ZNF726
8027348a	8.96E-03	4.02	down	ZNF730
8098745a	4.37E-03	2.25	up	ZNF732
8035793a	7.05E-05	3.06	up	ZNF737
8027297a	2.97E-02	1.57	up	ZNF738
8175319a	1.34E-04	1.69	down	ZNF75D
7997904a	3.26E-03	1.65	up	ZNF778
8025992a	1.67E-04	5.37	up	ZNF788
8046815a	2.14E-03	4.67	up	ZNF804A
8039692a	9.45E-04	1.90	up	ZNF814;ZNF552;ZNF587;LOC100288322;LOC100293516
8103025a	5.75E-04	1.86	down	ZNF827
8038967a	2.47E-05	1.88	up	ZNF83
8093332a	2.67E-02	1.69	up	ZNF876P
8027254a	5.76E-04	1.57	up	ZNF90;ZNF93
8027247a	2.63E-04	7.70	up	ZNF93
8039730a	5.26E-04	1.52	up	ZSCAN18
8031629a	1.59E-04	1.79	up	ZSCAN5C
7901497a	4.50E-07	2.49	up	ZYG11A

Complete list of all genes meeting t-test comparison between metal-transformed clones and their control clones with p-value less than or equal to 0.05 and a fold-change cut-off of greater than or equal to 1.50

Supplementary Table 4 Differentially Expressed Genes in Ni-Transformed Clones

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8142554a	1.30E-02	2.07	down	AASS
8018038a	3.19E-04	2.32	up	ABCA5
8008454a	2.55E-03	2.37	up	ABCC3
8065469a	6.37E-05	1.94	down	ABHD12
8089145a	5.55E-04	5.09	up	ABI3BP
7936463a	1.88E-02	1.65	down	ABLIM1
7932214a	2.21E-02	1.55	down	ACBD7
8117219a	2.07E-03	1.53	up	ACOT13
7975607a	2.85E-04	1.90	down	ACOT4
8083075a	2.23E-02	1.66	down	ACPL2
7930498a	4.97E-03	2.46	down	ACSL5
8062041a	2.06E-04	1.78	up	ACSS2
8056005a	6.39E-05	1.54	up	ACVR1
8066431a	4.36E-03	1.51	up	ADA
7936968a	1.83E-02	2.65	down	ADAM12
8146024a	1.28E-03	2.06	down	ADAM32
8111387a	3.78E-03	2.64	down	ADAMTS12
8100870a	6.37E-05	5.07	down	ADAMTS3
8154491a	2.30E-04	5.12	down	ADAMTSL1
8154512a	6.41E-05	2.65	down	ADAMTSL1
7985522a	7.88E-03	2.18	down	ADAMTSL3
8136591a	7.24E-05	1.89	up	ADCK2
7938390a	4.90E-02	1.67	down	ADM
8071899a	2.00E-03	1.59	up	ADORA2A;CYTSA
7936439a	6.60E-04	2.26	down	AFAP1L2
8054254a	1.13E-02	2.12	up	AFF3
8040774a	1.53E-04	1.65	up	AGBL5
7912659a	2.64E-03	1.75	down	AGMAT
8096116a	2.53E-02	1.80	up	AGPAT9
8162086a	9.23E-03	1.65	down	AGTPBP1
7962183a	4.13E-03	2.06	down	AK3L1
7968835a	1.14E-03	1.68	down	AKAP11
7925904a	8.24E-03	1.54	down	AKR1CL2
7965979a	1.86E-02	1.99	down	ALDH1L2
8005638a	1.20E-03	1.56	up	ALDH3A2
8117207a	1.43E-03	2.03	up	ALDH5A1
8013660a	2.97E-02	1.90	up	ALDOC
7971027a	5.10E-03	1.61	down	ALG5
8023528a	5.55E-04	2.06	down	ALPK2
8111101a	8.30E-03	1.95	up	ANKH
7934979a	1.41E-03	6.63	down	ANKRD1
8161388a	2.04E-03	2.12	up	ANKRD20A1-5;ANKRD20B;LOC375010
8053744a	3.03E-03	2.38	up	ANKRD20B;ANKRD20A1-5;FLJ43315
8161384a	4.44E-02	1.71	up	ANKRD20B;CCDC29;RP11-195B21.3;LOC100289454
8155591a	2.60E-03	2.93	up	ANKRD20B;RP11-195B21.3;CCDC29

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8069499a	1.02E-02	1.91	up	ANKRD30B
8020357a	3.29E-02	1.63	up	ANKRD30B
8121095a	1.38E-03	1.84	up	ANKRD6
7960438a	4.17E-06	4.31	down	ANO2
8042439a	2.60E-03	1.53	up	ANTXR1
8101260a	1.92E-02	2.13	down	ANTXR2
8095986a	3.19E-03	1.65	down	ANXA3
8047300a	4.50E-03	2.82	down	AOX1
7982187a	2.45E-03	2.98	up	APBA2
8073062a	2.69E-03	1.57	up	APOBEC3B
8073072a	1.55E-02	1.56	up	APOBEC3D
8073088a	9.81E-05	2.61	up	APOBEC3G
8072710a	2.49E-02	1.77	up	APOL6
8167998a	2.16E-03	2.04	up	AR
8099760a	1.32E-02	2.01	down	ARAP2
8095744a	4.77E-02	2.22	down	AREG
8129458a	3.54E-03	2.49	up	ARHGAP18
7973840a	3.39E-04	1.59	down	ARHGAP5
8110158a	1.57E-07	2.89	down	ARL10
8168868a	3.87E-04	1.50	down	ARMCX1
8174092a	1.40E-02	1.60	down	ARMCX2
8168855a	5.38E-04	1.58	down	ARMCX4
7985285a	3.20E-04	1.89	up	ARNT2
7950473a	9.31E-03	1.79	up	ARRB1
8171148a	3.66E-03	1.67	up	ARSD
8177011a	5.90E-04	1.79	up	ASMTL
8158671a	2.73E-02	1.62	up	ASS1
7974270a	5.99E-03	2.24	down	ATL1
7948995a	1.94E-03	1.54	down	ATL3
7970162a	9.80E-04	1.69	down	ATP11A
7908940a	2.20E-04	2.11	down	ATP2B4
7905754a	1.49E-04	1.65	down	ATP8B2
8067055a	3.03E-04	1.99	up	ATP9A
8060627a	1.54E-04	2.02	down	ATRN
8124040a	8.91E-03	1.74	up	ATXN1
8142100a	2.25E-03	1.50	up	ATXN7L1
8133233a	3.44E-04	2.33	up	AUTS2
8084206a	4.40E-02	1.93	up	B3GNT5
8001932a	3.54E-03	1.81	down	B3GNT9;C16orf70
7964484a	1.86E-02	1.52	up	B4GALNT1;SLC26A10
8141206a	2.03E-04	3.91	up	BAIAP2L1
8046147a	2.90E-02	1.72	up	BBS5;KBTBD10
8093219a	3.00E-04	2.38	down	BDH1
8174201a	6.18E-04	9.39	down	BEX1
8169009a	3.05E-02	1.55	down	BEX4
8077441a	2.13E-02	1.67	up	BHLHE40

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
7927681a	7.17E-04	3.89	down	BICC1
8054945a	5.14E-04	1.57	up	BIN1
7926609a	1.91E-04	1.89	down	BMI1
7979241a	1.94E-02	2.00	up	BMP4
8132250a	7.30E-04	2.19	down	BMPER
8171006a	1.28E-03	1.58	down	BRCC3
8032380a	1.79E-03	1.51	up	BTBD2
8060988a	9.89E-05	1.82	down	BTBD3
7965423a	1.77E-04	1.69	up	BTG1
8117458a	1.43E-02	1.51	up	BTN3A1
7932542a	6.52E-03	1.52	down	C10orf67
7944751a	2.61E-04	1.83	up	C11orf63
7954711a	4.28E-04	1.53	up	C12orf35
7953936a	3.46E-03	4.75	up	C12orf59
7968351a	3.14E-05	3.58	down	C13orf33
7970989a	3.19E-02	1.70	down	C13orf38;SOHLH2
8000932a	1.02E-04	1.52	up	C16orf93
8022310a	4.67E-06	12.43	up	C18orf58
8028325a	2.71E-03	1.52	down	C19orf33;YIF1B
7963061a	1.88E-04	2.00	up	C1QL4
7960744a	6.45E-04	1.90	up	C1R
7953603a	6.28E-03	2.17	up	C1S
8065612a	4.80E-04	1.67	up	C20orf112
8061305a	1.03E-03	1.51	down	C20orf19
8064637a	1.40E-05	2.43	down	C20orf194
8065433a	1.60E-04	2.51	down	C20orf3
8064833a	9.78E-04	1.50	down	C20orf30
8061019a	7.12E-05	2.10	down	C20orf7
8061129a	9.81E-05	2.01	down	C20orf72
8065280a	1.06E-02	1.64	down	C20orf74
8060977a	3.41E-03	1.71	down	C20orf94
8068202a	2.09E-03	2.07	up	C21orf63
8071301a	1.37E-03	1.53	up	C22orf25
8096905a	2.04E-03	1.50	down	C4orf16
8102831a	3.07E-02	1.77	up	C4orf49
8113504a	2.55E-03	2.32	down	C5orf13
8110147a	2.43E-03	2.48	up	C5orf25
8125850a	3.93E-05	1.60	up	C6orf106
8126095a	2.78E-03	1.56	up	C6orf129
8126382a	9.23E-04	1.79	down	C6orf132
8128371a	1.35E-03	1.93	up	C6orf168
8129392a	9.18E-03	2.14	down	C6orf174;KIAA0408
8129649a	3.69E-02	1.52	up	C6orf192
8179808a	1.61E-04	1.61	up	C6orf47
8137219a	4.22E-03	1.60	down	C7orf29
8138647a	7.96E-04	1.78	up	C7orf31

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8131881a	1.95E-04	2.53	down	C7orf46
8134051a	5.85E-03	1.61	up	C7orf63
8149315a	4.28E-04	2.01	down	C8orf15
8154381a	6.31E-04	2.61	up	C9orf150
8147112a	5.36E-03	2.16	down	CA13
8155083a	9.20E-03	1.57	down	CA9
8020495a	1.10E-02	1.83	up	CABLES1
7901993a	2.76E-04	3.12	up	CACHD1
7962112a	2.06E-03	1.55	up	CAPRIN2
8172158a	4.88E-04	1.61	down	CASK
8089261a	1.24E-02	1.96	up	CBLB
8010320a	1.59E-05	1.68	up	CBX2
7903049a	4.28E-04	1.66	down	CCDC18
7932082a	6.03E-03	1.81	up	CCDC3
8023401a	3.22E-04	3.09	up	CCDC68
7899346a	4.96E-02	1.58	down	CCDC72
8055173a	3.41E-05	1.70	up	CCDC74A;CCDC74B
8089544a	7.17E-04	2.74	down	CCDC80
7980828a	1.91E-02	2.30	up	CCDC88C
8111932a	3.24E-03	2.11	down	CCL28
8081657a	1.39E-02	2.21	down	CD200
8154233a	2.05E-03	2.03	down	CD274
8004510a	4.01E-03	1.73	up	CD68
8115147a	4.82E-05	1.88	down	CD74
7939546a	2.86E-02	1.54	up	CD82
8176360a	3.02E-04	1.92	up	CD99
8060675a	1.24E-03	1.52	down	CDC25B
7997504a	1.27E-03	2.29	down	CDH13
7996819a	3.79E-04	1.54	down	CDH3
7997982a	1.54E-04	1.67	up	CDK10
8140955a	1.94E-04	1.75	down	CDK6
8101031a	9.20E-03	1.66	up	CDKL2
8166289a	2.55E-03	1.77	down	CDKL5
8113641a	3.21E-02	1.51	down	CDO1
8060772a	6.14E-04	1.61	down	CDS2
7997839a	5.47E-05	1.92	up	CDT1
8003553a	2.24E-05	2.48	up	CENPBD1
7904883a	2.90E-04	1.62	down	CHD1L
8003467a	6.53E-04	1.61	up	CHMP1A
8174513a	1.78E-02	2.93	down	CHRD1
7987012a	1.56E-03	2.17	up	CHRFAM7A;CHRNA7
7958202a	5.42E-03	2.40	down	CHST11
7936856a	2.08E-03	1.53	down	CHST15
7981427a	6.20E-04	2.55	down	CKB
8165974a	1.76E-03	1.66	up	CLCN4
8083887a	1.44E-03	1.54	up	CLDN11

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8133459a	1.46E-04	1.51	up	CLIP2
8110971a	6.15E-04	1.60	up	CMBL
7997427a	1.91E-03	1.66	up	CMIP
8025918a	2.49E-03	1.91	down	CNN1
7929732a	1.30E-03	1.94	down	CNNM1
8007323a	2.82E-03	1.54	down	CNTNAP1
8161288a	2.20E-02	1.56	up	CNTNAP3;RP11-138L21.1;CNTNAP3B
7973797a	4.11E-04	2.64	down	COCH;STRN3
8127563a	7.68E-03	2.10	down	COL12A1
7972750a	7.16E-03	1.56	down	COL4A1
8057620a	4.06E-03	3.32	up	COL5A2
8081235a	2.05E-03	2.58	down	COL8A1
7926596a	8.23E-06	1.88	down	COMMD3;BMI1
7984475a	2.91E-02	1.77	down	CORO2B
8003217a	1.52E-04	1.76	up	COX4NB
8098204a	1.02E-03	2.94	down	CPE
7935011a	2.00E-04	1.66	down	CPEB3
7999553a	6.09E-03	1.61	up	CPPED1
8030448a	1.69E-03	2.99	down	CPT1C
8138805a	1.98E-02	2.27	up	CPVL
7921099a	8.40E-04	1.51	down	CRABP2
8131996a	4.33E-03	2.18	down	CREB5
8060839a	4.02E-04	1.70	down	CRLS1
8065256a	4.29E-04	1.65	down	CRNKL1
8081171a	5.78E-04	2.12	down	CRYBG3;MINA
8064351a	1.94E-04	1.66	down	CSNK2A1;CSNK2A1P
7946655a	9.54E-05	1.84	down	CSNK2A1P
7990545a	5.17E-03	2.38	down	CSPG4
8061138a	6.41E-05	2.43	down	CSRP2BP
7902290a	2.58E-03	1.70	down	CTH
8163063a	2.21E-03	1.51	down	CTNNA1
7950906a	3.08E-02	1.83	down	CTSC
7949650a	6.24E-04	1.75	down	CTSF
8067955a	2.58E-03	2.29	down	CXADR
8011713a	2.42E-03	2.33	up	CXCL16
8049471a	2.59E-04	2.25	down	CXCR7
8172110a	3.44E-04	1.59	down	CXorf38
8003322a	5.70E-03	1.90	up	CYBA
8018754a	2.83E-04	2.08	down	CYGB
8051583a	4.42E-03	4.93	down	CYP1B1
8048432a	6.17E-04	1.60	up	CYP27A1
8096744a	2.44E-04	1.58	down	CYP2U1
7974689a	5.64E-04	1.86	down	DACT1
8156199a	1.25E-03	2.51	down	DAPK1
8089082a	4.44E-04	1.64	down	DCBLD2
8097753a	9.70E-04	2.07	up	DCLK2

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8179819a	5.71E-05	2.13	up	DDAH2
8128843a	2.03E-03	2.29	up	DDO
8117900a	3.00E-02	1.76	up	DDR1
8179184a	5.46E-05	1.54	up	DDR1
7906878a	2.49E-02	2.36	up	DDR2
8064601a	2.19E-04	1.73	down	DDRGK1
8103601a	1.36E-02	1.73	down	DDX60L
7998072a	1.73E-04	1.60	up	DEF8
7923131a	1.74E-02	2.58	up	DENND1B
7923141a	9.99E-03	2.48	up	DENND1B
7918487a	1.32E-02	1.64	down	DENND2D
7956046a	5.00E-03	1.71	down	DGKA
7968800a	9.54E-05	1.93	down	DGKH
8143154a	1.29E-02	2.40	down	DGKI;DGKi
8006655a	4.69E-02	1.51	up	DHRS11
8168691a	3.10E-02	1.63	down	DIAPH2
7980485a	2.73E-02	2.09	up	DIO2
8046373a	2.67E-04	1.87	up	DLX1
8056784a	3.94E-03	1.86	up	DLX2
8131719a	2.03E-02	2.20	up	DNAH11
7985147a	5.42E-05	3.98	down	DNAJA4
7932512a	2.61E-04	1.56	down	DNAJC1
7900159a	1.75E-04	1.67	down	DNALI1
7907370a	1.61E-04	2.75	down	DNM3
8059413a	2.76E-04	3.27	up	DOCK10
8169541a	9.36E-04	1.96	up	DOCK11
8056222a	1.28E-02	2.49	up	DPP4
8165438a	4.67E-06	2.15	down	DPP7
8138988a	1.07E-02	1.68	down	DPY19L2P1
8141882a	2.82E-03	1.62	down	DPY19L2P2
8027448a	8.77E-05	1.98	down	DPY19L3
7958019a	8.11E-03	1.74	up	DRAM1
8023727a	8.01E-03	4.45	up	DSEL
8020779a	1.08E-02	1.72	up	DSG2
8061114a	2.53E-05	1.57	down	DSTN
8061211a	4.07E-04	1.64	down	DTD1
7956539a	6.14E-04	1.58	down	DTX3
7924450a	6.27E-04	3.68	up	DUSP10
8116548a	2.19E-04	1.72	up	DUSP22
7906469a	3.08E-04	1.60	down	DUSP23
7943442a	2.36E-04	2.01	down	DYNC2H1
7943498a	7.34E-04	1.81	down	DYNC2H1
8042637a	8.55E-04	2.20	down	DYSF
7926152a	6.67E-03	1.67	down	ECHDC3
7910694a	2.10E-04	1.69	up	EDARADD
7922823a	3.35E-03	1.75	down	EDEM3

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8112980a	4.18E-03	4.31	down	EDIL3
8116921a	2.15E-03	3.79	up	EDN1
7949503a	4.20E-03	1.86	down	EFEMP2
8120222a	6.36E-03	1.54	up	EFHC1
8113433a	3.55E-04	8.29	down	EFNA5
8092523a	1.80E-03	1.79	up	EHHADH
8179884a	3.41E-05	1.51	up	EHMT2
8123920a	3.37E-04	1.89	up	ELOVL2
8112274a	3.28E-03	3.49	up	ELOVL7
7976698a	1.35E-03	1.74	up	EML1
7954090a	1.36E-03	2.07	down	EMP1
7943293a	2.62E-02	1.56	down	ENDOD1
8122099a	6.65E-03	2.25	up	ENPP1
8120061a	3.65E-02	1.64	down	ENPP4
8061428a	2.58E-03	1.79	down	ENTPD6
8041781a	7.86E-04	1.98	up	EPAS1
8098439a	4.61E-02	2.16	down	EPCAM
8132369a	6.35E-04	2.42	up	EPDR1
8059279a	2.43E-02	2.47	up	EPHA4
8086141a	2.79E-03	1.58	down	EPM2AIP1
8065032a	2.36E-04	2.25	down	ESF1
7953981a	2.50E-03	1.60	up	ETV6;ACSL6
8014063a	6.42E-04	2.86	up	EVI2B
8123524a	2.72E-04	1.58	up	EXOC2
7968658a	4.88E-04	1.72	down	EXOSC8;FAM48A
7951545a	4.99E-02	1.81	down	EXPH5
8151310a	6.26E-03	3.36	down	EYA1
8063187a	2.39E-02	1.85	down	EYA2
8112731a	3.33E-03	3.65	down	F2RL2
7917875a	5.57E-04	1.91	down	F3
7914342a	2.99E-03	1.83	down	FABP3
8054045a	4.28E-04	1.55	up	FAHD2B;FAHD2A;LOC729234
7904948a	6.53E-03	1.69	up	FAM108A1
8047565a	4.48E-03	1.52	up	FAM117B
8173041a	1.51E-02	1.56	up	FAM120C
8169995a	1.57E-03	1.83	up	FAM122C
8048468a	9.09E-06	1.60	up	FAM134A
8111136a	1.59E-03	2.29	up	FAM134B
8082066a	6.48E-03	1.52	down	FAM162A
8046895a	8.65E-03	2.53	up	FAM171B
8101489a	1.40E-02	1.55	down	FAM175A
8022283a	1.18E-05	11.85	up	FAM38B
8022295a	1.23E-05	13.12	up	FAM38B2
8166442a	2.80E-03	1.54	down	FAM3C
8084891a	1.39E-03	1.54	up	FAM43A
8174767a	1.30E-04	6.62	down	FAM70A

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
7983991a	1.46E-04	2.07	up	FAM81A
8003503a	1.94E-04	1.81	up	FANCA;ZNF276
8116724a	7.65E-05	1.54	up	FARS2
8064581a	1.59E-04	1.94	down	FASTKD5;UBOX5
8077970a	2.35E-02	1.70	down	FBLN2
7988467a	1.20E-04	1.90	down	FBN1
8113800a	6.92E-03	2.52	down	FBN2
8152703a	2.24E-05	3.22	up	FBXO32
8105111a	2.67E-03	1.98	down	FBXO4
8051427a	2.36E-04	1.53	up	FEZ2
8114805a	3.52E-03	2.30	down	FGF1
8097256a	1.47E-03	1.55	up	FGF2
8096050a	1.45E-02	3.87	down	FGF5
8089112a	4.52E-03	1.76	down	FILIP1L
8064432a	1.61E-04	2.07	down	FKBP1A
8120428a	6.12E-05	1.73	down	FKBP1A;FKBP1C
7920165a	1.29E-03	1.51	down	FLG
7945132a	1.39E-02	1.69	up	FLI1;EWSR1
7933638a	1.45E-03	1.84	down	FLJ31958
7943349a	2.42E-02	1.51	down	FLJ32810
8005043a	3.94E-03	1.86	up	FLJ34690
8019954a	6.57E-03	1.84	up	FLJ35776
8144228a	1.60E-04	2.08	up	FLJ36840
8074168a	1.19E-02	2.09	up	FLJ39632
7973002a	7.61E-03	2.68	up	FLJ39632;LOC100287820
8135990a	7.91E-03	1.81	down	FLNC
8179688a	1.20E-04	1.76	up	FLOT1
7970763a	2.63E-03	2.00	up	FLT1
8170326a	2.92E-05	1.61	down	FMR1
8116582a	4.05E-04	2.01	up	FOXF2
8030866a	3.02E-02	1.84	up	FPR3
8161964a	9.75E-03	2.54	up	FRMD3
7932132a	2.33E-03	1.58	down	FRMD4A
7988260a	3.47E-02	1.74	down	FRMD5
7968417a	4.45E-02	1.64	down	FRY
8023995a	9.42E-03	1.57	down	FSTL3
8171001a	4.70E-04	1.61	down	FUNDC2
8145611a	2.75E-02	2.25	down	FZD3
8147766a	1.01E-03	2.03	up	FZD6
7953943a	5.04E-03	2.23	up	GABARAPL1
8046283a	4.59E-03	1.55	up	GAD1
7942064a	2.17E-03	1.67	down	GAL
7980580a	5.35E-03	2.59	down	GALC
8003410a	1.35E-04	2.06	up	GALNS
7997414a	4.05E-04	1.52	up	GAN
7970329a	1.92E-04	2.13	down	GAS6

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
7998103a	5.55E-04	1.69	up	GAS8;LOC100130015
7917561a	1.62E-02	1.75	up	GBP4
8116835a	4.87E-03	1.74	up	GCNT2
8112668a	4.44E-04	2.22	up	GCNT4
7922104a	3.32E-04	1.69	up	GCSH
8111670a	3.53E-03	1.88	down	GDNF
8116418a	2.57E-02	1.62	up	GFPT2
8061471a	1.20E-04	1.86	down	GINS1
8003204a	2.85E-04	1.87	up	GINS2
8121749a	1.57E-02	2.29	up	GJA1;IFT140
8131496a	6.37E-04	1.56	down	GLCCI1
7957260a	3.71E-03	1.56	down	GLIPR1;KRR1
8155192a	4.22E-03	1.64	down	GLIPR2
8159900a	6.26E-03	1.81	down	GLIS3
8004922a	1.51E-03	1.57	up	GLP2R
8098006a	7.68E-03	1.54	down	GLRB
8154951a	1.81E-02	2.04	up	GLUL
7922689a	8.65E-03	1.84	up	GLUL
7940135a	2.57E-04	1.58	down	GLYATL1
7948354a	2.43E-03	1.75	down	GLYATL2
8117034a	5.35E-03	2.04	up	GMPR
8024572a	1.48E-03	1.70	up	GNA15
8020164a	1.86E-03	2.19	up	GNAL
8071671a	2.88E-03	1.57	up	GNAZ
8134257a	1.03E-04	4.89	up	GNG11
7987248a	5.37E-03	1.53	down	GOLGA8B;GOLGA8A
8175217a	9.21E-03	2.75	up	GPC4
8131069a	2.56E-03	1.70	up	GPER
7975167a	3.76E-04	2.71	down	GPHN
8131844a	3.10E-04	6.72	up	GPNUMB
8045336a	1.01E-02	1.53	up	GPR39;LYPD1
8037614a	1.40E-03	1.80	down	GPR4
7996081a	3.30E-03	2.50	up	GPR56
7904930a	2.28E-02	1.51	down	GPR89B;GPR89A;GPR89C
7999909a	6.37E-05	3.29	up	GPRC5B
7901460a	1.40E-03	2.56	down	GPX7
8081758a	3.17E-03	1.89	up	GRAMD1C
7982377a	3.45E-02	2.83	down	GREM1
8167654a	2.82E-02	1.83	down	GSPT2
8171079a	9.09E-06	1.88	up	GTPBP6
8046906a	6.06E-04	11.27	up	GULP1
8061373a	5.42E-04	1.74	down	GZF1
8072926a	2.13E-03	1.89	down	H1F0
8124691a	2.97E-03	1.56	up	HCG8
8096361a	1.06E-03	2.84	up	HERC5
8096335a	3.06E-03	1.94	up	HERC6

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8084880a	3.93E-03	2.21	up	HES1
8121886a	1.39E-03	1.68	up	HINT3
8124518a	3.57E-02	1.57	up	HIST1H2AJ
8117594a	7.19E-03	2.08	up	HIST1H2BM
8124440a	7.33E-03	1.59	up	HIST1H3G
8117422a	4.46E-04	4.79	down	HIST1H4F
8116910a	1.49E-03	1.73	up	HIVEP1
8042942a	1.43E-03	1.83	down	HK2
8117760a	1.68E-03	2.05	up	HLA-F
8111941a	2.40E-03	3.11	up	HMGCS1
8112841a	3.65E-02	2.51	up	HOMER1
8138708a	8.46E-04	2.37	up	HOXA1
8138718a	1.88E-03	2.16	up	HOXA2
8138721a	3.90E-04	1.57	up	HOXA3
7955858a	3.60E-02	1.64	up	HOXC10
7955845a	2.86E-02	2.10	up	HOXC13
7955865a	3.54E-03	1.83	up	HOXC9
8040238a	1.23E-03	1.67	up	HPCAL1
7946988a	6.03E-03	1.60	up	HPS5
7898677a	6.62E-03	1.69	up	HS6ST1
8055130a	7.66E-04	1.55	up	HS6ST1
7956271a	1.92E-03	1.50	up	HSD17B6
8003116a	1.35E-05	2.09	up	HSDL1
7936516a	3.40E-04	1.81	up	HSPA12A
7959102a	2.58E-03	2.81	up	HSPB8
7913450a	2.68E-04	1.80	down	HSPG2;LDLRAD2
7913566a	1.41E-03	2.27	up	HTR1D
7934970a	6.13E-03	1.58	down	HTR7
7913655a	3.27E-02	1.53	up	ID3
8117120a	3.50E-04	1.72	up	ID4
8064522a	1.53E-04	1.74	down	IDH3B
8175593a	6.10E-03	1.53	down	IDS
8179704a	1.61E-04	1.60	up	IER3
8026971a	4.39E-02	1.59	up	IFI30
7902553a	1.69E-02	1.57	up	IFI44
8056285a	4.10E-03	2.13	up	IFIH1
7929065a	1.02E-02	1.54	up	IFIT1
7937335a	1.62E-04	3.61	up	IFITM1
8160435a	5.98E-03	2.05	down	IFNE
7967933a	4.28E-03	1.55	down	IFT88
8008151a	2.17E-03	1.88	down	IGF2BP1
8007100a	1.61E-02	1.94	down	IGFBP4
8039484a	1.37E-02	1.66	down	IL11
8169580a	7.26E-03	1.73	up	IL13RA1
7951686a	2.86E-02	2.49	down	IL18
8043995a	3.91E-02	1.52	up	IL1R1

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
7909271a	1.89E-03	1.70	down	IL24
7992828a	4.97E-02	1.54	down	IL32
8131803a	1.37E-04	3.29	up	IL6
8104901a	3.50E-02	1.93	up	IL7R
7922018a	6.78E-04	2.63	down	ILDR2
8020183a	2.77E-04	1.69	up	IMPA2
8017283a	5.42E-05	1.50	up	INTS2
7993713a	7.80E-04	1.71	up	IQCK
8106354a	3.52E-02	1.75	up	IQGAP2
7997712a	2.13E-03	1.89	up	IRF8
8110865a	2.55E-05	2.14	up	IRX4
8035465a	8.56E-03	2.49	down	ISYNA1
7963880a	2.96E-03	2.36	down	ITGA7
8009951a	2.38E-02	1.82	up	ITGB4
8060611a	1.99E-04	2.02	down	ITPA
8118734a	5.31E-04	1.81	up	ITPR3
7922889a	1.04E-04	1.79	down	IVNS1ABP
7998267a	7.15E-03	1.90	down	JMJD8
7943314a	1.88E-04	1.75	down	JRKL
8015412a	1.66E-02	1.52	down	JUP
8067029a	3.22E-04	1.94	up	KCNG1
8067033a	1.97E-04	1.94	up	KCNG1
8051785a	8.72E-06	2.23	up	KCNG3
8000738a	6.12E-05	1.58	up	KCTD13
7971369a	7.97E-04	1.85	down	KCTD4
7972682a	7.97E-04	1.58	down	KDEL1
8159854a	1.07E-02	1.53	down	KIAA0020
7997680a	1.94E-03	1.54	up	KIAA0182
8099721a	1.23E-03	2.22	down	KIAA0746
7926679a	5.42E-04	2.30	down	KIAA1217
8010426a	2.55E-03	1.63	up	KIAA1618
8076668a	1.12E-03	2.26	up	KIAA1644
7990941a	8.96E-04	1.78	down	KIAA1920;LOC100291610;LOC390627;LOC440297
8065089a	6.63E-03	1.90	down	KIF16B
7929078a	2.17E-04	1.60	down	KIF20B
8045637a	3.24E-04	3.68	up	KIF5C
7922268a	5.55E-04	1.60	down	KIFAP3
7952577a	5.13E-04	2.04	down	KIRREL3
8095110a	2.67E-03	3.67	down	KIT
7965322a	1.15E-02	1.73	down	KITLG
8040211a	7.99E-03	1.56	up	KLF11
7997626a	6.39E-05	1.72	up	KLHL36
8072170a	5.91E-05	2.22	up	KREMEN1
8015387a	2.50E-04	7.06	down	KRT17
8005449a	1.43E-04	4.91	down	KRT17
8013042a	3.03E-04	3.70	down	KRT17

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8045539a	1.68E-02	1.64	up	KYNU
8128991a	1.54E-02	2.61	up	LAMA4
7924029a	7.48E-03	1.97	down	LAMB3
7908041a	2.39E-03	1.57	down	LAMC1
7908072a	4.49E-04	2.43	down	LAMC2
8092348a	7.22E-03	2.25	up	LAMP3
8046086a	1.70E-02	1.72	up	LASS6
7924603a	9.73E-04	1.64	down	LBR
8099581a	1.13E-02	1.52	down	LCORL;NCAPG
8157751a	2.68E-04	2.18	up	LHX2
8075310a	1.54E-02	1.57	down	LIF;MGC20647
8111677a	2.11E-03	1.64	up	LIFR
8092541a	4.37E-03	3.61	up	LIPH
8009844a	3.13E-03	1.51	up	LLGL2
8144089a	3.99E-04	1.59	down	LMBR1
8157922a	6.37E-05	1.53	up	LMX1B
8135585a	2.85E-03	2.18	down	LOC100128868
7912884a	5.58E-03	1.57	down	LOC100132147;LOC100133616
8155503a	3.14E-03	2.09	down	LOC100132167;LOC100292301
8161368a	9.91E-04	1.56	down	LOC100132167;LOC100292301
8031825a	4.54E-04	1.59	down	LOC100288322;ZNF587
8154727a	1.52E-04	1.87	up	LOC138412
7998405a	7.96E-03	1.50	up	LOC146336
7919139a	5.98E-03	1.99	up	LOC375010
8056968a	5.55E-04	1.77	up	LOC375295
8160431a	3.47E-02	1.99	down	LOC554202
8112306a	1.43E-03	1.53	down	LOC57399
8111922a	1.44E-03	1.67	up	LOC648987
8113709a	3.03E-04	4.25	down	LOX
7917276a	1.48E-03	2.76	up	LPAR3
8110841a	2.22E-03	1.97	up	LPCAT1
7964602a	1.09E-02	1.58	up	LRIG3
8152280a	1.51E-02	1.61	down	LRP12
8117243a	1.18E-04	3.05	up	LRRC16A
7986463a	2.69E-04	2.36	up	LRRK1
7968126a	3.86E-03	1.53	down	LSP1
7905028a	8.71E-03	1.52	down	LSP1;LOC645166;LOC654342
7980152a	1.04E-02	1.72	down	LTBP2
8178059a	3.03E-04	1.78	up	LY6G5B;CSNK2B
8118228a	2.13E-02	1.51	up	LY6G5B;CSNK2B
8146500a	1.18E-02	1.52	up	LYN
8055314a	1.91E-03	2.30	up	LYPD1;GPR39
8045674a	4.35E-04	5.12	up	LYPD6
8045664a	5.13E-04	7.09	up	LYPD6B
8088602a	1.77E-04	1.60	down	MAGI1
7904106a	1.32E-02	1.69	down	MAGI3

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8170420a	2.81E-03	2.05	down	MAMLD1
8107234a	4.05E-04	1.60	down	MAN2A1
8105436a	1.12E-04	1.65	down	MAP3K1
8129804a	5.09E-04	3.90	up	MAP3K5
8119016a	8.11E-03	1.84	down	MAPK13
8025421a	6.72E-04	1.56	up	MAR2
8177498a	3.52E-02	1.60	up	MARVELD2
8050537a	4.81E-03	1.51	up	MATN3
8124166a	1.80E-03	2.64	up	MBOAT1
8113551a	4.45E-03	1.66	down	MCC
8092358a	4.23E-02	1.52	up	MCF2L2
8060813a	7.06E-04	1.75	down	MCM8
8129214a	1.08E-04	1.86	up	MCM9
8129218a	2.14E-04	1.60	up	MCM9
7917283a	3.75E-04	2.04	up	MCOLN2
7917304a	7.50E-04	2.69	up	MCOLN3
7986293a	8.91E-03	2.81	up	MCTP2
8135568a	2.50E-03	1.54	down	MDFIC
7939665a	2.13E-02	1.66	down	MDK
8110886a	1.56E-03	1.70	up	MED10;DNAL4
7971550a	1.14E-02	1.52	down	MED4
7987385a	9.16E-03	1.59	up	MEIS2
8093171a	1.05E-02	1.58	down	MF12
8074695a	7.97E-04	1.73	up	MGC16703
8123606a	1.66E-02	1.75	up	MGC39372
7954196a	2.51E-02	1.57	up	MGST1
8171297a	2.70E-03	1.61	down	MID1
8018343a	2.84E-03	1.57	up	MIF4GD
8068022a	6.81E-03	1.90	down	MIR155HG
8008885a	1.62E-03	1.96	up	MIR21
8064967a	1.64E-04	1.94	down	MKKS
7932733a	1.54E-02	2.60	up	MKX
8083616a	3.63E-03	2.01	down	MLF1
7905329a	2.25E-02	2.01	down	MLLT11
8160332a	4.37E-05	5.02	down	MLLT3
8151684a	1.79E-03	3.10	down	MMP16
8151686a	2.09E-02	2.12	down	MMP16
8062123a	3.41E-05	2.67	down	MMP24
7989146a	1.69E-02	1.61	up	MNS1
7909866a	9.04E-03	1.55	up	MOSC2
8129573a	3.19E-02	1.94	up	MOXD1
8003068a	9.54E-05	1.65	up	MPHOSPH6
7993453a	2.15E-03	1.56	down	MPV17L
8026182a	6.06E-04	1.54	up	MRI1
8095894a	9.04E-03	1.71	down	MRPL1
8179139a	6.37E-05	1.57	up	MRPS18B

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8151334a	4.32E-03	2.01	up	MSC
7992071a	3.93E-05	2.73	down	MSLN
8145766a	3.66E-03	2.18	down	MST131
7995825a	7.49E-03	1.72	up	MT1F
8170443a	1.18E-04	1.70	down	MTMR1
8149500a	8.23E-03	2.13	up	MTUS1
7920642a	5.86E-03	1.86	down	MUC1
8003332a	4.70E-04	1.61	up	MVD
8031047a	7.20E-05	1.55	down	MYADM
8117020a	3.01E-03	2.09	up	MYLIP
8111153a	3.91E-03	1.79	up	MYO10
7988876a	5.22E-04	2.74	down	MYO5C
8005048a	5.70E-04	2.01	up	MYOCD
7927827a	2.63E-03	3.80	up	MYPN
8065510a	6.07E-03	1.62	down	NANP
8065372a	1.63E-04	2.13	down	NAPB
8061262a	1.60E-04	2.12	down	NAT5
7957298a	1.97E-02	2.12	up	NAV3
7922773a	2.33E-03	1.91	down	NCF2
8121861a	2.16E-03	1.67	up	NCOA7
8178324a	6.05E-04	1.52	up	NCRNA00171
7977621a	2.77E-03	2.02	up	NDRG2
8123936a	7.47E-03	2.09	up	NEDD9
7916986a	6.15E-04	3.82	down	NEGR1
8179851a	1.35E-04	1.53	up	NEU1
7902495a	2.06E-04	1.71	down	NEXN
7909027a	2.60E-04	2.20	down	NFASC
8160138a	4.30E-03	1.54	down	NFIB
7978644a	4.37E-03	1.54	up	NFKBIA
8162455a	1.17E-03	1.52	up	NINJ1
8065485a	1.72E-04	1.55	down	NINL
7946334a	4.81E-03	1.86	down	NLRP10
8039545a	1.40E-03	1.61	up	NLRP11
7932227a	9.87E-04	1.86	down	NMT2
8100464a	5.21E-03	2.34	down	NMU
7935146a	2.65E-04	1.59	down	NOC3L
8060484a	6.05E-04	1.77	down	NOP56;SNORD56
7978391a	3.94E-02	1.53	down	NOVA1
8043909a	8.11E-03	1.59	up	NPAS2
7912520a	1.24E-02	5.14	down	NPPB
8155121a	2.99E-05	1.87	up	NPR2
8002303a	6.41E-05	2.11	up	NQO1
8116610a	4.25E-04	1.76	up	NQO2;LOC401233
8145736a	1.57E-02	1.67	down	NRG1
8060339a	8.85E-04	1.67	down	NRSN2
8064438a	3.41E-05	1.83	down	NSFL1C

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
7981566a	6.15E-05	1.72	up	NUDT14
7997332a	3.53E-02	1.98	up	NUDT7
8085431a	3.48E-02	1.61	down	NUP210
7958895a	8.98E-04	1.57	up	OAS3
7967117a	2.68E-03	1.51	up	OASL
8098441a	3.08E-04	2.21	down	ODZ3
7921882a	2.77E-02	1.54	up	OLFML2B
8143629a	1.27E-02	1.58	down	OR2A9P;OR2A20P;OR2A5
7945831a	3.72E-04	1.52	up	OSBPL5
8098263a	1.35E-03	1.66	down	PALLD
8107133a	7.98E-05	1.66	down	PAM
7947512a	2.06E-04	3.84	down	PAMR1
7984524a	4.72E-02	1.65	down	PAQR5
7906954a	7.79E-04	2.76	up	PBX1
8108733a	9.45E-03	1.56	up	PCDHB12
7929132a	8.27E-03	1.87	down	PCGF5
8064844a	2.10E-04	1.64	down	PCNA
8019778a	3.03E-04	1.53	up	PCYT2
8130674a	8.77E-05	6.55	up	PDE10A
7904965a	3.50E-03	2.07	down	PDE4DIP
8068833a	4.78E-04	1.97	up	PDE9A;LOC100132338
8137670a	4.12E-03	2.11	up	PDGFA;LOC100132080
8104022a	8.25E-04	3.03	up	PDLIM3
7898057a	2.76E-02	1.73	down	PDPN
8000501a	3.21E-02	1.80	down	PDXDC2;NPIP;NPIPL2;LOC728741;LOC730153
8104693a	4.24E-03	1.62	down	PDZD2
7904843a	2.66E-04	3.04	down	PDZK1;PDZK1P1
8052654a	4.81E-03	1.55	down	PEL1
8105229a	7.08E-03	1.58	down	PELO;ITGA1
8129880a	1.12E-04	5.04	up	PERP
8134098a	2.78E-02	1.51	down	PFTK1
8147469a	2.74E-03	2.89	up	PGCP
7980233a	4.80E-03	1.88	up	PGF
7901951a	3.92E-05	1.62	down	PGM1
8118682a	1.25E-04	1.58	up	PHF1
8173551a	9.05E-03	1.81	up	PHKA1
7921526a	4.63E-03	1.57	down	PIGM
8119161a	4.37E-05	1.85	up	PIM1
8171435a	2.35E-02	1.97	up	PIR
7948987a	7.54E-03	1.72	up	PLA2G16
8129985a	3.58E-03	1.90	down	PLAGL1
8037374a	5.35E-03	1.69	down	PLAUR
7929388a	2.46E-02	1.51	down	PLCE1
7997453a	5.24E-06	2.12	up	PLCG2
8176286a	9.70E-04	1.83	up	PLCXD1
7931081a	1.12E-04	1.51	down	PLEKHA1

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
7946781a	6.12E-05	2.28	down	PLEKHA7
8041644a	1.89E-02	1.57	up	PLEKHH2
8112202a	4.28E-04	1.62	down	PLK2
8091327a	7.03E-03	1.59	up	PLSCR1
8091306a	1.46E-03	2.87	up	PLSCR4
7923991a	5.42E-05	1.85	down	PLXNA2
8170921a	6.33E-04	1.53	down	PLXNA3
8048257a	1.46E-04	1.52	up	PNKD
8171229a	8.00E-03	2.02	down	PNPLA4
8141791a	1.98E-03	1.62	up	POLR2J3;POLR2J2;UPLP;POLR2J4
8061171a	1.77E-04	1.89	down	POLR3F;C20orf12
8106820a	4.16E-02	1.94	up	POLR3G
7971077a	7.84E-04	6.16	up	POSTN
7930980a	3.46E-02	2.17	down	PPAPDC1A
7964646a	2.17E-04	2.43	up	PPM1H
8176986a	5.42E-05	1.74	up	PPP2R3B
8040278a	1.18E-05	2.49	up	PQLC3
8121257a	2.53E-03	2.23	up	PRDM1
7962375a	1.35E-05	5.66	down	PRICKLE1
7919305a	9.77E-04	1.55	down	PRKAB2
8135378a	1.46E-02	2.04	up	PRKAR2B
8171182a	3.37E-04	2.53	up	PRKX
8060758a	1.29E-03	1.58	down	PRNP
8089011a	2.52E-02	1.86	down	PROS1
8166049a	8.25E-04	1.63	up	PRPS2
8107563a	3.00E-02	1.72	up	PRR16
8166705a	2.20E-05	2.87	down	PRRG1;TSPAN7
7939150a	2.07E-03	2.25	up	PRRG4
8069582a	1.50E-02	1.94	down	PRSS7
7989073a	1.92E-03	1.75	up	PRTG
8161865a	4.42E-02	2.29	down	PRUNE2
8149551a	7.47E-04	3.00	down	PSD3
8149555a	9.20E-03	2.12	down	PSD3
8037283a	4.00E-02	2.15	up	PSG4;PSG1
8180049a	1.35E-03	1.62	up	PSMB8
8179495a	3.51E-03	1.99	up	PSMB9
8060379a	4.81E-04	1.55	down	PSMF1
8105067a	2.91E-04	2.12	up	PTGER4
8160346a	8.40E-05	11.04	down	PTPLAD2
8045182a	4.64E-04	1.52	up	PTPN18
7953569a	5.21E-04	1.71	up	PTPN6
8060539a	2.36E-04	1.64	down	PTPRA;VPS16
7964872a	6.20E-04	2.64	down	PTPRB
8080810a	1.00E-04	2.91	down	PTPRG
8061447a	8.44E-04	1.50	down	PYGB
8041508a	8.70E-03	2.40	down	QPCT

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8021301a	1.51E-02	1.59	up	RAB27B
8034202a	8.14E-04	1.55	up	RAB3D
7899499a	6.93E-04	1.93	down	RAB42
8001147a	1.77E-04	1.58	up	RAB43;ISY1
8174271a	4.73E-04	1.78	down	RAB9B
8160016a	1.32E-03	1.51	down	RANBP6
8096538a	8.89E-04	1.91	down	RAP1GDS1
7940775a	5.34E-03	2.35	up	RARRES3
7987405a	4.38E-02	1.52	up	RASGRP1
7902023a	1.20E-02	2.27	up	RAVER2
8065230a	1.48E-03	1.74	down	RBBP9
8060353a	1.77E-03	1.61	down	RBCK1
8117045a	1.18E-04	1.84	up	RBM24
8078330a	1.46E-04	2.34	down	RBMS3
8094460a	6.31E-04	1.50	down	RBPJ
8155169a	8.77E-05	1.73	down	RECK
8166243a	1.28E-03	2.51	up	REPS2
7908125a	2.25E-04	2.40	down	RGL1
8180144a	9.89E-05	1.80	up	RGL2
8009277a	3.39E-04	2.61	up	RGS9
7963009a	7.51E-03	1.77	up	RHEBL1
7933821a	2.53E-03	2.18	down	RHOBTB1
8005064a	1.65E-02	1.53	up	RICH2
8111698a	1.36E-02	1.52	up	RICTOR
8074593a	2.37E-02	2.16	up	RIMBP3;RIMBP3B;RIMBP3C
8147206a	2.00E-03	1.56	up	RIPK2
8070489a	2.42E-02	1.85	up	RIPK4
8130768a	7.79E-04	1.53	up	RNASET2;LOC100131869
8018652a	4.07E-03	1.52	up	RNF157
8003348a	1.35E-04	1.73	up	RNF166
8010454a	1.97E-03	1.74	up	RNF213;LOC100294362
8064766a	6.12E-03	1.55	down	RNF24
7934885a	4.17E-06	3.48	down	RNLS
8049689a	1.90E-03	1.53	up	RNPEPL1
8104492a	1.51E-02	1.90	up	ROPN1L
7901969a	3.41E-05	1.95	down	ROR1
8064868a	2.69E-04	2.82	down	RP5-1022P6.2
7924144a	2.70E-03	1.59	down	RPL21P28
8117881a	3.49E-04	1.53	up	RPP21;TRIM39;TRIM39R
7980744a	2.42E-03	1.59	up	RPS6KA5
8027354a	4.78E-02	1.76	up	RPSAP58
8065136a	7.12E-05	1.58	down	RRBP1
8053142a	1.10E-03	1.63	up	RTKN
8125638a	9.89E-05	1.69	up	RXRБ
8180111a	2.90E-04	1.54	up	RXRБ
7903393a	9.54E-05	2.23	down	S1PR1

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8156278a	8.40E-04	1.54	up	S1PR3;C9orf47
7970569a	1.39E-02	1.52	down	SACS
8058091a	7.83E-06	6.85	up	SATB2
7944656a	2.89E-02	1.61	up	SC5DL
7929816a	8.71E-03	1.65	up	SCD
7935776a	1.80E-03	1.57	up	SCD
8059345a	2.10E-02	1.75	up	SCG2
8147461a	2.64E-03	5.05	up	SDC2
8003060a	7.82E-09	5.42	down	SDR42E1
8061186a	1.59E-04	1.84	down	SEC23B
8019486a	1.16E-02	1.94	down	SECTM1
8162236a	9.81E-03	2.05	up	SEMA4D
8032839a	3.49E-04	1.81	up	SEMA6B
7983527a	1.20E-02	1.96	up	SEMA6D
7990345a	2.76E-04	3.12	down	SEMA7A
7968892a	3.41E-05	2.12	down	SERP2
8021635a	1.88E-02	3.99	down	SERPINB2;SERPINB10
8021623a	1.15E-02	2.73	down	SERPINB7
8123609a	6.32E-03	1.63	up	SERPINB9
8059376a	9.09E-06	3.72	up	SERPINE2
7942596a	8.71E-06	2.56	down	SERPINH1
8057394a	1.38E-03	2.04	up	SESTD1
7930148a	2.65E-03	1.75	down	SFXN2
8129677a	4.64E-04	2.58	up	SGK1
8096733a	2.23E-03	1.52	down	SGMS2
7950042a	2.35E-02	1.51	down	SHANK2
8128459a	5.24E-06	4.16	up	SIM1
8060418a	6.68E-04	2.55	down	SIRPA
8138689a	6.34E-05	7.64	up	SKAP2
8179364a	2.33E-04	1.53	up	SKIV2L
7906613a	6.60E-03	1.62	down	SLAMF7
8094960a	9.70E-04	1.81	down	SLC10A4
8110755a	4.39E-03	2.39	up	SLC12A7
7934936a	4.59E-03	1.64	down	SLC16A12
8004266a	1.73E-03	1.60	up	SLC16A13
7922162a	4.76E-03	1.57	down	SLC19A2
8123658a	3.64E-04	1.53	up	SLC22A23
8064808a	1.38E-03	1.82	down	SLC23A2
7966600a	7.82E-06	1.79	up	SLC24A6
7971388a	2.45E-03	1.62	down	SLC25A30
8177003a	6.34E-05	1.82	up	SLC25A6;LOC138412
8131326a	1.73E-04	1.91	up	SLC29A4
8068810a	4.22E-03	1.77	up	SLC37A1
8143367a	3.20E-04	1.88	down	SLC37A3
8079931a	3.17E-02	1.57	down	SLC38A3
8172425a	1.96E-04	8.04	down	SLC38A5

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8057677a	1.72E-03	2.36	up	SLC40A1
7948229a	1.13E-03	1.72	down	SLC43A3
7970793a	4.92E-03	2.07	up	SLC46A3
8005603a	3.30E-04	3.16	up	SLC47A1
8064613a	3.44E-04	2.25	down	SLC4A11
8095585a	7.85E-07	6.48	down	SLC4A4
8078014a	2.21E-03	1.66	up	SLC6A6
8102800a	2.28E-03	2.14	up	SLC7A11
8063923a	1.74E-02	1.54	up	SLCO4A1;hCG_2018279
8094301a	8.14E-05	4.44	up	SLIT2
8154059a	1.87E-03	1.54	down	SMARCA2
7925589a	2.44E-04	2.00	down	SMYD3
8101762a	2.35E-04	3.09	up	SNCA
8107326a	4.32E-03	1.57	down	SNORA13
8097056a	8.42E-03	1.67	down	SNORA24
7951038a	5.85E-04	1.54	down	SNORA40;TAF1D
8170992a	7.17E-04	1.90	down	SNORA56
8139482a	1.63E-02	1.55	up	SNORA5A
8170863a	1.98E-03	1.73	down	SNORA70;RPL10
7981974a	1.32E-02	1.61	down	SNORD116-13
8010078a	3.93E-03	1.67	down	SNORD1C
7948896a	7.19E-03	1.53	down	SNORD22;SNHG1
7948910a	4.32E-03	1.76	down	SNORD25;SNHG1
7948906a	6.76E-03	1.59	down	SNORD27;SNHG1
7948902a	1.86E-03	1.53	down	SNORD29;SNHG1
7948898a	1.49E-02	1.57	down	SNORD31;SNHG1
8030366a	9.04E-03	1.59	down	SNORD35A;RPL13A
7902400a	4.05E-04	1.61	down	SNORD45B;RABGGTB
7902396a	4.52E-04	1.59	down	SNORD45C
7998722a	3.28E-02	1.60	down	SNORD60
8061075a	2.43E-04	1.89	down	SNRNP2
8131957a	1.43E-03	3.92	up	SNX10
8065165a	1.72E-04	1.90	down	SNX5
7944667a	2.85E-03	2.28	up	SORL1
7997909a	1.46E-04	1.66	up	SPG7
8028311a	1.41E-03	1.81	down	SPINT2
8114287a	8.84E-03	3.01	up	SPOCK1
8176955a	6.40E-03	1.51	down	SPRY3
8060997a	6.83E-04	8.46	down	SPTLC3
7983512a	1.31E-02	1.76	up	SQRDL
7956759a	1.33E-02	1.63	up	SRGAP1
8003722a	4.03E-03	1.52	up	SRR;TSR1
8064375a	8.09E-04	2.01	down	SRXN1
8112940a	1.55E-02	3.08	down	SSBP2
8046726a	4.07E-04	1.55	up	SSFA2
7945110a	2.53E-04	1.60	up	ST3GAL4

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8081219a	3.41E-05	2.64	up	ST3GAL6
7932407a	1.94E-03	1.90	up	ST8SIA6
8078529a	6.39E-05	3.50	down	STAC
7929012a	3.39E-04	2.31	down	STAMBPL1
8134036a	2.18E-02	1.68	up	STEAP2
8044793a	1.48E-03	1.53	up	STEAP3
8048505a	8.73E-06	1.55	up	STK16
7946365a	8.44E-04	2.57	down	STK33
8060427a	2.18E-03	1.72	down	STK35
7954511a	6.05E-03	1.57	up	STK38L
7927915a	2.32E-03	1.73	up	STOX1
8098549a	2.99E-03	1.67	up	STOX2
8165866a	8.45E-04	1.53	down	STS
8025255a	7.16E-04	1.60	up	STXBP2
7978376a	1.60E-02	2.33	down	STXBP6
8146863a	1.69E-03	5.65	up	SULF1
8066822a	5.41E-03	1.98	down	SULF2
8163383a	4.61E-04	1.84	down	SUSD1
7950810a	2.65E-02	1.51	down	SYTL2
7944082a	2.31E-03	1.67	down	TAGLN
8180061a	1.73E-03	1.66	up	TAP1
8178977a	3.17E-03	2.36	up	TAPBP
8180166a	2.44E-03	1.50	up	TAPBP
7961249a	2.64E-03	1.65	down	TAS2R10
8065018a	1.90E-03	1.81	down	TASP1
8064336a	2.01E-04	1.77	down	TBC1D20
8123961a	8.77E-05	1.61	up	TBC1D7
7913593a	2.19E-02	2.03	down	TCEA3
7998033a	3.99E-04	1.58	up	TCF25
8023415a	1.46E-04	5.74	up	TCF4
8043114a	1.13E-02	1.50	up	TCF7L1
7958692a	8.64E-03	1.53	up	TCTN1
8092000a	1.76E-03	2.29	down	TERC
8135576a	3.36E-03	2.18	down	TES
8063536a	1.52E-03	4.58	up	TFAP2C
8141016a	4.45E-04	5.08	up	TFPI2
8156826a	1.77E-03	1.82	down	TGFBR1
8078350a	1.07E-02	1.84	down	TGFBR2
7926708a	1.50E-02	1.52	down	THNSL1
8043393a	1.17E-02	1.53	down	THNSL2
8019273a	8.89E-05	1.52	up	THOC4
7984588a	8.07E-03	1.52	down	THSD4
7952268a	1.38E-03	2.13	down	THY1
8072626a	7.97E-04	5.16	down	TIMP3
8075635a	3.40E-04	2.80	down	TIMP3
8013771a	7.72E-04	2.01	up	TLCD1

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8156060a	3.16E-03	2.07	up	TLE4
8098611a	4.19E-03	2.10	up	TLR3
8091411a	2.25E-02	1.66	down	TM4SF1
8093104a	2.28E-02	1.72	up	TM4SF19
7954985a	2.24E-05	2.59	down	TMEM117
7943369a	1.89E-02	1.64	down	TMEM133
8106170a	1.08E-04	2.45	up	TMEM171
8154760a	1.51E-03	1.68	down	TMEM215
8081288a	6.35E-03	1.73	up	TMEM45A
8156706a	5.55E-04	2.43	up	TMOD1
7983734a	2.33E-03	2.99	down	TMOD2
8169073a	9.99E-03	1.60	down	TMSB15B;H2BFXP
8064939a	6.53E-04	1.82	down	TMX4
8163637a	1.71E-02	2.70	down	TNC
7977046a	6.67E-04	1.66	up	TNFAIP2
8149749a	2.13E-02	1.57	down	TNFRSF10D
8092095a	1.51E-02	2.54	down	TNIK
8058869a	6.13E-03	1.54	down	TNS1
8150962a	6.14E-04	8.08	up	TOX
8120880a	2.28E-03	1.54	up	TPBG
8151475a	4.30E-03	1.58	up	TPD52
7970404a	4.54E-02	1.67	up	TPTE2
7997852a	1.12E-04	1.60	up	TRAPPC2L
8012953a	2.17E-03	1.73	up	TRIM16
8005475a	7.17E-04	2.15	up	TRIM16L
8179638a	1.88E-04	1.61	up	TRIM26
8117321a	5.47E-05	1.99	up	TRIM38
7914630a	1.18E-03	1.61	up	TRIM62
8064879a	5.91E-05	2.03	down	TRMT6
8077353a	2.53E-03	1.51	down	TRNT1
8167835a	1.22E-03	1.73	up	TRO
7928046a	7.77E-03	1.70	up	TSPAN15
8110224a	2.08E-04	1.54	up	TSPAN17
7918857a	2.53E-02	1.52	down	TSPAN2
8136067a	7.17E-04	1.94	up	TSPAN33
7925003a	1.60E-04	1.67	down	TTC13
8136495a	1.52E-04	1.86	up	TTC26
8056999a	5.78E-04	1.55	up	TTC30A
7917199a	2.55E-03	2.27	down	TTL7
8151042a	2.85E-04	1.66	down	TTPA
7904726a	5.01E-05	3.09	down	TXNIP
8154367a	9.70E-04	2.03	up	TYRP1
8124650a	4.52E-03	2.15	up	UBD;GABBR1
8078252a	1.74E-05	2.29	down	UBE2E2
7970831a	3.35E-04	2.12	down	UBL3
7972369a	1.37E-04	1.98	down	UGGT2

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8013399a	1.52E-02	1.59	up	ULK2
8071155a	8.55E-04	1.69	up	USP18
8074606a	2.11E-03	1.78	up	USP18;USP41
7952249a	9.06E-03	1.58	down	USP2
8166826a	2.47E-04	1.52	down	USP9X
7960544a	2.48E-03	1.53	up	VAMP1;TAPBPL
8043203a	8.97E-03	1.56	up	VAMP5
7906602a	1.24E-02	1.54	down	VANGL2
8171013a	1.94E-04	1.58	down	VBP1
8106743a	1.42E-02	1.79	down	VCAN
7962689a	1.35E-02	1.51	up	VDR
8041467a	2.01E-03	2.85	up	VIT
8154100a	9.09E-06	3.22	down	VLDLR
8053599a	2.17E-04	1.53	up	WBP1;INO80B;LOC729859
8089596a	4.79E-03	1.81	down	WDR52
8089606a	6.31E-03	1.63	down	WDR52
7959330a	4.68E-04	1.82	down	WDR66
8148198a	1.46E-04	1.53	up	WDYHV1
8056860a	7.47E-03	2.01	up	WIPF1
8017850a	1.35E-03	1.51	up	WIPI1
8007363a	1.23E-03	1.55	up	WNK4
8088180a	1.01E-02	4.27	up	WNT5A
8076734a	4.56E-02	1.71	up	WNT7B;LOC100289775
8126952a	2.03E-05	1.75	down	WTAP
8109773a	2.56E-05	1.59	down	WWC1
8004184a	2.44E-03	2.09	up	XAF1
8061324a	7.24E-05	2.22	down	XRN2
7971422a	3.30E-03	1.56	down	ZC3H13
7997779a	2.01E-03	1.52	up	ZC3H18
8173261a	3.58E-04	3.16	down	ZC4H2
8003263a	6.72E-04	1.68	up	ZCCHC14
8173752a	1.44E-03	2.62	down	ZCCHC5
8160151a	1.90E-03	1.61	down	ZDHHC21
7926916a	2.97E-03	1.96	down	ZEB1
8147000a	3.68E-02	1.86	down	ZFHX4
7901426a	3.69E-04	1.51	down	ZFYVE9
7992732a	3.28E-04	1.53	up	ZG16B
7969830a	1.88E-04	1.54	up	ZIC2
7967900a	2.55E-03	1.57	down	ZMYM2
8061154a	2.88E-04	1.64	down	ZNF133
8093336a	1.01E-02	1.69	down	ZNF141
8028186a	7.79E-04	1.60	down	ZNF146
8039674a	5.26E-04	1.92	down	ZNF154
8124502a	2.25E-04	1.56	up	ZNF184
8124498a	1.05E-03	2.38	up	ZNF204
7938183a	3.99E-02	2.33	down	ZNF215

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
7927202a	2.61E-02	1.83	down	ZNF22;C10orf25
7933180a	8.37E-04	2.01	down	ZNF239
8027323a	1.22E-03	5.50	up	ZNF257
8074845a	3.35E-04	2.53	up	ZNF280B
8013026a	1.80E-03	1.52	down	ZNF287
8066745a	9.73E-04	1.74	down	ZNF334
8064514a	4.70E-04	2.03	down	ZNF343
8028194a	2.92E-02	1.58	down	ZNF382
7963774a	6.80E-05	1.74	up	ZNF385A
8035813a	2.97E-02	2.77	up	ZNF43
8034393a	8.33E-03	1.66	up	ZNF443
8031669a	3.00E-03	1.61	down	ZNF470
8139800a	5.92E-04	3.17	up	ZNF479;LOC643955
8133023a	2.97E-02	3.05	up	ZNF479;LOC643955
7927173a	1.90E-04	1.86	down	ZNF485
8035773a	4.24E-02	4.18	up	ZNF506
7929562a	3.22E-05	1.92	down	ZNF518A
8099364a	2.54E-02	2.23	down	ZNF518B
8031632a	5.96E-03	3.55	up	ZNF542;LOC283788
8036373a	1.23E-04	1.73	down	ZNF585A
8036389a	9.74E-03	1.60	down	ZNF585B
8113761a	1.14E-02	1.86	down	ZNF608
8030914a	1.76E-04	1.57	down	ZNF610
8079198a	2.92E-05	3.42	down	ZNF660;ZNF197
8133042a	6.44E-04	3.15	up	ZNF679
8033746a	5.91E-03	1.83	up	ZNF699
8039025a	6.93E-04	3.99	up	ZNF702P
8133018a	1.13E-05	8.81	up	ZNF716
8027348a	3.07E-03	7.07	up	ZNF730
7997904a	1.88E-04	2.46	up	ZNF778
7997896a	1.35E-04	1.72	up	ZNF778
8035789a	1.59E-02	1.56	down	ZNF826
8025984a	1.64E-03	1.89	down	ZNF844

Complete list of all genes meeting t-test comparison between metal-transformed clones and their control clones with p-value less than or equal to 0.05 and a fold-change cut-off of greater than or equal to 1.50

Supplementary Table 5 Differentially Expressed Genes in V-Transformed Clones

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8015741a	9.71E-03	1.59	down	AARSD1
8142554a	2.04E-02	2.27	down	AASS
8006690a	9.13E-04	1.79	down	AATF
8018038a	7.19E-03	1.83	down	ABCA5
8170704a	9.67E-03	1.68	up	ABCD1
8101675a	3.51E-04	3.20	up	ABCG2
8089145a	3.85E-03	5.22	up	ABI3BP
7936463a	3.94E-02	1.52	up	ABLIM1
8109093a	1.33E-03	2.52	up	ABLIM3
8134415a	1.51E-02	1.52	down	ACN9
8083075a	5.09E-03	2.66	up	ACPL2
8008321a	5.41E-03	1.68	up	ACSF2
7934906a	1.01E-02	2.63	up	ACTA2
7987315a	3.89E-02	1.94	down	ACTC1
8042788a	1.68E-02	2.36	up	ACTG2
8066431a	3.08E-04	2.07	up	ADA
7936968a	6.38E-03	4.14	up	ADAM12
8050190a	2.10E-03	1.54	up	ADAM17
8146024a	1.78E-02	1.85	up	ADAM32
8111387a	3.93E-02	1.81	up	ADAMTS12
8104321a	3.42E-03	2.35	up	ADAMTS16
8154491a	1.64E-02	2.07	up	ADAMTSL1
8154512a	1.17E-02	1.59	up	ADAMTSL1
8069178a	1.06E-03	2.49	down	ADARB1
7995492a	7.97E-04	1.76	up	ADCY7
7999079a	1.56E-03	1.50	up	ADCY9
8099259a	1.98E-02	1.52	up	AFAP1
7912659a	1.81E-03	2.18	down	AGMAT
8096116a	9.62E-03	2.95	up	AGPAT9
7985192a	1.10E-03	1.55	down	AGPHD1
7981514a	6.41E-03	2.19	up	AHNAK2
8128795a	1.61E-02	1.58	down	AKD1
7986446a	1.04E-02	2.76	up	ALDH1A3
7958784a	1.77E-03	2.99	down	ALDH2
8117207a	5.68E-03	1.86	down	ALDH5A1
8162827a	2.22E-03	1.65	down	ALG2
7966183a	1.79E-03	1.75	up	ALKBH2
8164200a	7.37E-05	2.91	down	ANGPTL2
8112596a	3.42E-03	1.90	up	ANKRA2
8161388a	4.26E-02	1.61	down	ANKRD20A1-5;ANKRD20B;LOC375010
8053741a	8.01E-03	1.81	down	ANKRD20B;ANKRD20A1-4
8161415a	2.53E-02	1.54	down	ANKRD20B;CCDC29;RP11-195B21.3;LOC100289026
8161384a	7.90E-03	2.31	down	ANKRD20B;CCDC29;RP11-195B21.3;LOC100289454
8155591a	3.90E-02	2.14	down	ANKRD20B;RP11-195B21.3;CCDC29
8121095a	1.48E-03	1.75	down	ANKRD6

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
7957861a	2.70E-04	4.52	down	ANO4
8101260a	9.13E-04	2.53	up	ANTXR2
7933237a	2.06E-04	2.93	down	ANUBL1
7933312a	7.71E-03	3.89	down	ANXA8L1;ANXA8L2
7927307a	5.86E-03	3.19	down	ANXA8L2;ANXA8L1
8047300a	9.71E-03	2.21	up	AOX1
8112772a	1.11E-03	1.64	up	AP3B1
7982187a	2.15E-03	4.32	down	APBA2
8099982a	2.51E-03	1.78	up	APBB2
8073088a	1.13E-02	1.81	down	APOBEC3G
8072735a	4.50E-03	3.01	down	APOL1
8075720a	5.53E-03	1.50	down	APOL2
8072710a	4.89E-02	1.89	down	APOL6
8095744a	2.70E-02	3.78	up	AREG
8129458a	1.58E-02	2.07	up	ARHGAP18
7951565a	6.96E-03	2.74	down	ARHGAP20
8006779a	1.34E-02	1.67	down	ARHGAP23
8019964a	8.92E-04	9.09	down	ARHGAP28
8112033a	1.37E-02	1.82	up	ARL15
8016300a	5.88E-03	1.60	down	ARL17P1;NBR2
8059854a	9.79E-03	1.64	up	ARL4C
7932744a	4.78E-03	1.70	down	ARMC4
7985285a	2.14E-02	1.64	down	ARNT2
8113073a	4.40E-03	3.05	up	ARRDC3
8112807a	6.77E-04	1.88	up	ARSB
8171148a	1.23E-03	2.04	down	ARSD
8102440a	1.35E-02	1.83	up	ARSJ
8106962a	1.98E-03	2.17	up	ARSK
7930181a	9.70E-03	2.51	down	AS3MT;C10orf32
7952341a	7.30E-04	6.46	up	ASAM
8040113a	3.73E-04	1.99	up	ASAP2
7940643a	1.13E-02	1.89	down	ASRGL1
8158671a	5.31E-03	2.31	down	ASS1
8006187a	1.52E-02	1.51	down	ATAD5
7993167a	3.12E-02	1.66	down	ATF7IP2
8106709a	1.03E-03	2.34	up	ATG10
7974270a	1.56E-03	2.72	up	ATL1
8094911a	1.00E-03	1.85	up	ATP10D
8175492a	1.25E-02	1.51	down	ATP11C
7908940a	5.73E-03	1.82	up	ATP2B4
8166805a	3.73E-04	1.53	up	ATP6AP2
8143221a	6.97E-03	1.90	down	ATP6V0A4
8124040a	1.71E-03	2.04	up	ATXN1
8015955a	4.57E-03	1.62	down	ATXN7L3
8162264a	3.58E-03	1.58	down	AUH
8091780a	5.98E-03	2.58	down	B3GALNT1

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8001932a	5.41E-03	1.79	up	B3GNT9;C16orf70
7951910a	7.36E-03	2.30	up	BACE1
8128247a	1.15E-02	1.63	up	BACH2
8069494a	3.60E-04	2.23	down	BAGE2;LOC441666
7914433a	3.85E-03	1.67	up	BAI2
7926875a	1.65E-02	1.59	up	BAMBI
8001507a	4.53E-04	1.69	up	BBS2
8044375a	9.20E-03	1.55	down	BCL2L11
8015715a	2.52E-03	1.71	down	BECN1;CNTD1
7961891a	3.95E-03	1.87	up	BHLHE41
7943413a	2.11E-04	2.90	down	BIRC3
8015769a	6.47E-04	2.08	down	BRCA1
7958352a	1.27E-02	1.79	up	BTBD11
7902965a	2.69E-02	1.56	down	BTBD8
7937208a	5.33E-03	1.79	up	C10orf125
7933488a	6.81E-03	1.57	up	C10orf72
7943162a	2.87E-02	1.59	down	C11orf54
7951004a	1.43E-02	1.82	down	C11orf75
7953936a	1.77E-03	7.37	down	C12orf59
7968351a	6.14E-03	2.22	up	C13orf33
7974771a	2.10E-02	1.54	up	C14orf135
7979437a	6.60E-03	1.58	up	C14orf149
7983478a	2.77E-02	1.62	up	C15orf48
7986527a	3.51E-02	1.98	down	C15orf51;LOC100289668;LOC441734;LOC100293999
8001178a	1.71E-03	1.95	up	C16orf87
8131475a	6.29E-03	1.60	up	C1GALT1
7924996a	4.80E-02	1.58	down	C1orf198
7905154a	1.55E-03	2.14	up	C1orf51
8069574a	8.33E-03	1.68	up	C21orf91
7950336a	1.32E-02	1.79	down	C2CD3
8053248a	1.63E-02	2.12	down	C2orf65
8088436a	6.90E-04	1.85	up	C3orf67
8099912a	4.45E-02	1.60	up	C4orf34
8163839a	2.02E-02	1.53	down	C5
8113504a	6.88E-03	2.53	up	C5orf13
8110147a	6.26E-04	4.99	down	C5orf25
8108478a	1.26E-02	1.56	down	C5orf32
8111584a	2.93E-02	1.52	down	C5orf42
8112302a	5.80E-04	1.53	up	C5orf43
8129193a	2.46E-02	1.59	up	C6orf204
8137219a	7.11E-03	1.62	down	C7orf29
8131881a	6.08E-03	2.04	down	C7orf46
8135734a	2.37E-02	1.56	up	C7orf58
8132710a	3.20E-02	1.91	up	C7orf69
8146703a	7.41E-04	1.70	down	C8orf46
8156601a	5.65E-03	1.57	down	C9orf102

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8156581a	6.62E-03	1.51	down	C9orf102
8156604a	1.20E-02	1.51	down	C9orf102
8154381a	2.68E-04	5.27	up	C9orf150
8164008a	7.46E-03	1.87	down	C9orf45
8157144a	3.13E-02	1.58	down	C9orf6;IKBKAP
7989501a	6.11E-04	2.86	up	CA12
8155083a	2.69E-02	2.10	up	CA9
7971590a	1.17E-02	1.87	down	CAB39L
7901993a	2.97E-02	2.26	down	CACHD1
8009334a	2.45E-02	2.35	up	CACNG4
7909425a	1.86E-03	2.25	up	CAMK1G
8139330a	2.51E-04	2.14	down	CAMK2B
8102415a	1.55E-03	1.94	up	CAMK2D
8137874a	9.77E-04	3.86	down	CARD11
8007028a	8.02E-03	1.53	down	CASC3
8172158a	2.19E-03	1.67	up	CASK
7951372a	3.48E-02	1.78	down	CASP4
8107005a	9.54E-03	1.52	up	CAST
8164496a	1.33E-02	1.72	down	CCBL1
8113602a	6.71E-03	1.61	down	CCDC112
8013272a	1.07E-02	1.79	down	CCDC144A;CCDC144C;CCDC144B;LOC100134159
7932082a	4.73E-04	2.86	down	CCDC3
8016088a	1.08E-02	1.63	down	CCDC43
8006112a	9.34E-04	1.99	down	CCDC55
8015712a	4.73E-03	1.69	down	CCDC56
8115261a	6.53E-03	1.59	down	CCDC69
8037762a	2.51E-03	1.93	down	CCDC8
7980828a	1.83E-04	6.01	down	CCDC88C
7967486a	7.94E-03	1.57	up	CCDC92
8155200a	5.37E-03	1.61	up	CCIN
8006433a	2.97E-02	2.32	down	CCL2
8140358a	4.22E-03	2.12	up	CCL26
7968637a	2.88E-03	2.95	down	CCNA1
8095870a	5.59E-04	1.60	up	CCNG2
8120719a	1.29E-03	3.44	up	CD109
8081657a	1.07E-02	2.55	up	CD200
8177222a	4.39E-03	11.42	up	CD24
8163481a	5.79E-03	1.84	down	CDC26
8142878a	5.35E-03	1.69	down	CDC26
8086517a	1.17E-02	1.83	up	CDCP1
8111255a	1.94E-02	4.08	up	CDH10
7997504a	8.29E-03	1.61	up	CDH13
8111220a	7.05E-03	1.51	up	CDH18
8063796a	4.21E-02	2.02	up	CDH4
8104663a	4.36E-03	3.58	down	CDH6
8006409a	6.20E-04	1.51	down	CDK5R1

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8163733a	7.22E-03	1.60	down	CDK5RAP2
8177462a	1.98E-02	1.58	up	CDK7
7952526a	7.20E-03	2.10	down	CDON
8150592a	2.82E-03	1.53	down	CEBPD
8105842a	3.81E-03	1.77	up	CENPH
8112376a	4.20E-03	1.55	up	CENPK
8157534a	6.74E-04	2.02	down	CEP110
7996345a	1.43E-02	1.63	up	CES2
8002865a	1.44E-02	1.59	up	CFDP1;C17orf60
8038299a	4.73E-03	1.58	up	CGB7;CGB5;CGB2;LHB;CGB8;NTF4;CGB1
8146579a	5.25E-03	1.79	down	CHD7
7995583a	5.77E-03	1.85	up	CHD9
8056890a	1.47E-02	1.54	down	CHN1
7950983a	5.60E-03	1.66	down	CHORDC1
8004416a	1.22E-02	2.36	down	CHRN1;FGF11
7958202a	8.04E-03	2.88	up	CHST11
7936856a	4.93E-04	1.85	up	CHST15
7983256a	2.31E-04	6.12	down	CKMT1A;CKMT1B
7902702a	3.42E-03	2.14	up	CLCA2
8165334a	2.31E-02	2.41	down	CLIC3
7969488a	1.58E-02	1.52	up	CLN5
8144279a	9.20E-03	1.50	up	CLN8
7969815a	5.15E-03	1.54	down	CLYBL
7996290a	1.43E-03	1.52	up	CMTM1;CKLF
8078397a	7.00E-03	1.60	down	CMTM8
8021727a	4.37E-03	1.50	down	CNDP2
7941587a	8.34E-04	1.86	up	CNIH2
7929732a	1.17E-02	1.97	down	CNNM1
8007188a	6.37E-03	1.61	down	CNP
8007272a	5.60E-03	1.78	down	COASY
8002381a	3.87E-03	1.55	up	COG4
8016646a	3.69E-02	2.61	down	COL1A1
8112687a	1.55E-03	1.72	up	COL4A3BP
8169294a	4.73E-03	1.56	up	COL4A5
8057620a	8.70E-04	8.27	up	COL5A2
8162744a	1.62E-03	2.06	down	CORO2A
7984475a	1.89E-03	2.73	up	CORO2B
7935647a	1.02E-03	1.63	down	COX15
8136200a	4.26E-03	2.10	up	CPA4
8094169a	9.64E-04	2.29	up	CPEB2
7995976a	9.77E-03	1.57	up	CPNE2
7999553a	6.49E-03	1.92	down	CPPED1
7997642a	1.03E-03	4.26	up	CRISPLD2
8006850a	1.98E-03	1.71	down	CRKRS
8014037a	2.17E-03	1.62	down	CRLF3
7917037a	4.40E-03	2.13	up	CRYZ

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7923378a	1.83E-04	1.82	up	CSRP1
8162652a	1.06E-02	1.78	down	CTSL2
7929768a	2.07E-03	1.68	down	CUTC
7936798a	3.27E-03	2.11	up	CUZD1
8100977a	2.74E-03	1.57	down	CXCL5
8172110a	2.29E-03	1.53	up	CXorf38
8003322a	6.65E-03	1.52	down	CYBA
7995552a	9.82E-04	1.73	up	CYLD
8176698a	2.21E-04	8.09	up	CYorf15A
8176709a	2.07E-03	3.55	up	CYorf15B
8051583a	2.37E-03	11.24	up	CYP1B1
8111772a	2.91E-02	1.80	up	DAB2
7974689a	1.20E-03	1.94	up	DACT1
8007651a	6.01E-04	1.80	down	DBF4B
8016159a	1.45E-02	1.71	down	DCAKD
8124196a	4.41E-02	1.94	down	DCDC2;KAAG1
7928308a	4.22E-02	1.92	up	DDIT4
8176624a	1.26E-03	29.58	up	DDX3Y
8014574a	1.11E-02	1.52	down	DDX52
7916898a	8.54E-04	1.54	down	DEPDC1
7954185a	1.15E-02	1.50	up	DERA
8153939a	5.71E-03	1.54	up	DGAT1
7956046a	5.75E-03	1.96	up	DGKA
7950067a	1.95E-02	1.84	down	DHCR7
8006655a	3.03E-02	1.83	down	DHRS11
7912537a	8.09E-03	2.92	up	DHRS3
8007505a	3.38E-03	1.73	down	DHX8
7980485a	1.35E-03	6.74	down	DIO2
7931683a	6.37E-03	2.46	down	DIP2C
8131719a	1.15E-02	2.42	down	DNAH11
7933933a	3.42E-04	1.70	up	DNAJC12
8015490a	2.94E-04	2.25	down	DNAJC7;CNP
8176076a	2.92E-03	1.68	up	DNASE1L1
8059580a	5.20E-03	7.09	up	DNER
7935660a	3.79E-03	1.82	up	DNMBP
8142345a	2.41E-02	2.63	up	DOCK4
7979963a	8.93E-03	1.81	up	DPF3
8165438a	8.47E-03	1.58	down	DPP7
8138988a	6.00E-03	1.91	down	DPY19L2P1
8145470a	4.72E-03	1.79	up	DPYSL2
8022711a	2.29E-03	8.37	down	DSC2
8022692a	6.62E-04	51.06	down	DSC3
7961371a	2.21E-03	1.61	up	DUSP16
8150076a	1.56E-03	2.95	up	DUSP4
7930413a	2.03E-02	1.65	up	DUSP5
8172035a	4.67E-03	1.52	up	DYNLT3

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8042637a	5.63E-03	2.31	up	DYSF
8147101a	1.07E-02	2.44	down	E2F5
8082003a	3.17E-03	1.89	down	EAF2
7905220a	2.70E-04	2.10	up	ECM1
8173299a	6.64E-03	2.60	up	EDA2R
8112980a	2.00E-04	13.10	up	EDIL3
7960365a	1.18E-02	2.22	down	EFCAB4B
7960370a	9.42E-03	1.96	down	EFCAB4B
7905929a	3.64E-02	1.54	down	EFNA1
8041225a	7.33E-04	1.61	up	EHD3
7958200a	2.54E-02	1.63	down	EID3
8176719a	1.10E-03	34.36	up	EIF1AY
8088803a	1.69E-02	1.83	down	EIF4E3
8123920a	1.74E-03	1.70	down	ELOVL2
8112274a	5.27E-03	5.28	down	ELOVL7
7980636a	7.93E-04	2.71	down	EML5
7954090a	1.38E-03	2.68	up	EMP1
8112615a	4.07E-02	1.63	up	ENC1
8152522a	5.22E-03	3.69	up	ENPP2
8120061a	7.67E-04	3.13	down	ENPP4
8041781a	6.81E-03	1.78	up	EPAS1
7899534a	1.48E-03	1.87	down	EPB41
8041853a	9.09E-03	1.87	down	EPCAM
8095723a	1.65E-02	4.08	up	EPGN
7898809a	2.17E-02	1.88	up	EPHB2
7902957a	8.89E-04	2.16	down	EPHX4
8005557a	4.28E-03	1.53	down	EPN2
7961546a	8.75E-03	1.63	up	EPS8
7971296a	3.30E-03	1.78	up	EPST1
8113250a	3.50E-02	1.76	up	ERAP1
8095728a	2.10E-02	2.63	up	EREG
7925342a	3.34E-03	2.21	down	ERO1LB
8162833a	1.45E-02	1.55	down	ERP44
8139840a	2.02E-02	1.62	down	ERV3
8065032a	7.48E-03	1.74	down	ESF1
8082974a	7.97E-04	1.71	down	ESYT3
8037322a	1.18E-02	1.50	up	ETHE1
8138289a	4.15E-02	1.53	up	ETV1
8014066a	1.75E-03	2.59	up	EVI2A
7929288a	9.63E-04	1.69	down	EXOC6
7951545a	9.81E-03	1.91	down	EXPH5
8151310a	1.60E-02	4.73	up	EYA1
8122150a	3.84E-04	57.45	up	EYA4
8015685a	4.81E-03	1.90	down	EZH1
8106393a	1.26E-02	1.73	up	F2R
8112731a	1.27E-03	5.96	up	F2RL2

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
7948420a	4.85E-02	3.61	down	FABP5;FABP5L3
7903507a	3.64E-02	1.81	down	FAM102B
8146533a	3.49E-03	2.00	down	FAM110B
8155696a	3.75E-03	1.57	down	FAM122A
7969192a	1.06E-02	1.72	down	FAM124A
8157905a	2.93E-03	1.52	down	FAM125B
8015655a	3.09E-03	1.80	down	FAM134C
8120552a	4.84E-02	1.77	down	FAM135A
8101728a	3.76E-02	1.54	down	FAM13A
8113083a	3.08E-04	2.21	up	FAM172A
8130993a	9.42E-03	1.80	up	FAM20C
7936809a	5.80E-04	2.02	up	FAM24B;CUZD1
8127778a	2.70E-04	2.11	up	FAM46A
8050427a	3.42E-04	2.10	up	FAM49A
8004167a	7.53E-03	1.55	down	FAM64A
7996571a	1.68E-02	1.52	up	FAM65A
7972936a	4.99E-02	1.52	up	FAM70B;LOC100291462
7982574a	5.39E-04	1.51	down	FAM98B
8003503a	2.21E-04	1.65	down	FANCA;ZNF276
7954631a	9.13E-04	6.95	down	FAR2
8110920a	4.69E-02	1.53	down	FASTKD3
7998297a	1.48E-03	1.95	up	FBXL16
8078461a	1.09E-02	1.86	up	FBXL2
8152703a	4.31E-02	2.18	up	FBXO32
8106141a	7.67E-04	2.02	up	FCHO2
8064904a	2.09E-02	2.44	down	FERMT1
7952490a	1.85E-04	4.65	down	FEZ1
7954729a	1.48E-03	1.94	down	FGD4
8097829a	2.05E-03	4.44	up	FHDC1
8001981a	2.70E-04	2.11	up	FHOD1;SLC9A5
8056323a	2.79E-03	1.82	up	FIGN
8157074a	2.26E-03	1.74	down	FKTN
8013622a	2.12E-02	1.52	down	FLJ25006
8005043a	2.39E-02	2.05	up	FLJ34690
8019954a	3.21E-02	1.78	down	FLJ35776
8144228a	6.68E-03	1.91	down	FLJ36840
7952673a	3.80E-02	1.57	down	FLJ45950
8080714a	1.91E-03	1.75	up	FLNB
8013788a	3.15E-02	1.51	down	FLOT2
7970763a	5.27E-03	2.02	down	FLT1
7975799a	1.52E-02	1.57	up	FLVCR2
7987145a	2.09E-02	2.29	up	FMN1
7910923a	2.01E-03	4.27	down	FMN2
8170326a	2.68E-04	1.62	up	FMR1
8058765a	5.24E-04	2.15	up	FN1
8098103a	7.39E-03	1.59	up	FNIP2

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8112592a	5.80E-04	2.61	up	FOXD1
7932132a	5.76E-04	1.92	up	FRMD4A
8131339a	2.14E-02	1.65	up	FSCN1
7995655a	5.73E-05	1.66	up	FTO
8155699a	6.57E-04	1.62	down	FXN
8145611a	2.39E-02	3.11	down	FZD3
8147766a	2.67E-02	1.73	down	FZD6
8047487a	3.00E-03	1.90	up	FZD7
7909441a	1.56E-03	3.20	up	GOS2
7953943a	3.02E-02	1.85	down	GABARAPL1
8175696a	2.11E-03	8.38	up	GABRA3
8115664a	1.74E-02	1.55	up	GABRB2
7942064a	1.25E-05	5.41	down	GAL
8020903a	3.09E-03	3.10	down	GALNT1
8109407a	2.37E-02	1.53	up	GALNT10
8156770a	1.19E-02	1.74	up	GALNT12
8051298a	3.85E-03	2.38	down	GALNT14
8045835a	2.24E-03	3.98	up	GALNT5
7963313a	1.75E-02	1.93	down	GALNT6
7997414a	1.17E-03	1.53	down	GAN
8157858a	6.37E-03	1.55	down	GAPVD1
8157976a	2.11E-03	1.60	down	GARNL3
7998103a	1.75E-03	1.58	down	GAS8;LOC100130015
7926105a	1.74E-02	1.82	up	GATA3
8164833a	1.79E-03	1.70	down	GBGT1;RALGDS
8046003a	1.21E-03	12.00	down	GCA
8155930a	2.40E-02	1.58	up	GCNT1
8151816a	1.39E-03	1.93	up	GEM
8112622a	3.63E-03	1.61	up	GFM2
8002082a	9.33E-03	1.53	up	GFOD2
8091120a	1.17E-03	1.58	down	GK5
8162006a	8.37E-04	2.24	down	GKAP1
8160024a	1.55E-03	2.70	down	GLDC
8139212a	4.72E-03	1.77	up	GLI3
8159900a	9.45E-06	4.39	up	GLIS3
8113214a	1.71E-02	1.79	up	GLRX
7965941a	2.18E-02	1.72	up	GLT8D2
8080964a	4.77E-05	2.93	up	GLT8D4
8154951a	7.67E-04	8.98	down	GLUL
7922689a	8.81E-04	4.22	down	GLUL
7948354a	6.32E-03	2.20	up	GLYATL2
8020164a	2.23E-02	2.11	down	GNAL
7974341a	3.16E-02	1.77	up	GNG2
7925250a	1.13E-03	1.94	up	GNG4
7965812a	2.11E-03	1.59	up	GNPTAB
7981895a	1.69E-02	1.52	down	GOLGA8C-G;LOC653061;LOC728047;LOC728498

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8162117a	1.07E-03	1.61	down	GOLM1;LOC100293491
8007904a	3.78E-03	1.77	down	GOSR2
8148715a	4.49E-03	1.55	up	GPAA1
8141463a	2.29E-02	1.83	up	GPC2;GAL3ST4
8131844a	1.39E-02	3.03	down	GPNMB
8058450a	1.03E-03	2.05	up	GPR1
8122365a	4.94E-03	1.61	down	GPR126
7974372a	3.50E-02	1.76	up	GPR137C
8083839a	2.70E-03	3.21	down	GPR160
8157727a	5.48E-03	1.93	down	GPR21
8045336a	5.59E-04	2.79	up	GPR39;LYPD1
7996081a	1.05E-02	2.23	up	GPR56
8168976a	6.98E-03	1.70	down	GPRASP2
7995362a	9.15E-03	1.53	up	GPT2
8109333a	2.28E-02	1.60	up	GPX3
7901460a	5.24E-04	4.00	down	GPX7
8007620a	1.40E-03	1.60	down	GRN
8127072a	1.48E-03	3.20	up	GSTA1
8127065a	1.33E-03	1.67	up	GSTA2
7903765a	3.31E-02	3.60	down	GSTM1
7930304a	1.98E-03	1.56	up	GSTO1
7968242a	1.02E-03	1.59	up	GTF3A
8158961a	3.50E-03	1.53	down	GTF3C5
8046906a	1.47E-02	10.18	down	GULP1
8105991a	2.59E-02	1.71	up	GUSBL1;LOC653188;SMA4;LOC653080;GUSBP1
8165817a	7.92E-03	3.52	down	GYG2
8045009a	1.31E-02	1.60	up	GYPC
8051864a	3.40E-02	1.78	down	hCG_1645220
8131631a	2.44E-02	1.62	up	HDAC9
8096361a	6.37E-03	3.01	down	HERC5
8106252a	2.06E-04	1.86	up	HEXB
8138776a	8.93E-03	1.51	up	HIBADH
7988124a	8.89E-04	2.28	down	HISPPD2A
7919627a	6.83E-03	2.45	down	HIST2H4A;HIST2H4B
7961483a	3.58E-02	1.68	down	HIST4H4
8180086a	3.15E-04	1.65	up	HLA-DMA;HLA-DMB
8008588a	1.28E-03	5.76	up	HLF
7992987a	2.17E-03	1.76	up	HMOX2
7991034a	8.29E-03	2.45	up	HOMER2
8138718a	2.68E-03	1.65	down	HOXA2
8016438a	1.00E-03	2.33	up	HOXB2
8016444a	1.33E-03	1.54	up	HOXB3
8016468a	2.01E-03	1.97	up	HOXB7
7955845a	1.53E-02	2.06	up	HOXC13
8040238a	5.76E-04	2.27	up	HPCAL1
8151942a	1.05E-03	1.71	down	HRSP12

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8157233a	3.68E-03	1.63	down	HSDL2
8042283a	4.15E-02	1.59	down	HSPC159
7913450a	3.30E-04	2.09	up	HSPG2;LDLRAD2
7931097a	1.30E-02	1.71	up	HTRA1
7915529a	2.43E-03	1.55	up	HYI;KIAA0467
7945040a	3.30E-04	2.93	down	HYLS1
8025601a	2.26E-02	1.96	down	ICAM1
8070720a	6.62E-04	2.41	down	ICOSLG
8061564a	1.45E-02	2.17	up	ID1
7991374a	4.83E-02	1.70	up	IDH2
8175593a	2.55E-03	2.03	up	IDS
8170390a	5.48E-03	1.90	up	IDS;LOC727913
8007446a	1.14E-02	1.54	down	IFI35
8056285a	2.07E-02	1.94	down	IFIH1
7937335a	1.82E-02	2.11	down	IFITM1
8160435a	3.12E-02	1.86	up	IFNE
8013581a	4.63E-02	1.54	down	IFT20;TMEM97
8091737a	2.91E-02	1.56	down	IFT80
7937772a	2.78E-02	1.53	up	IGF2;INS-IGF2
7955694a	7.66E-03	1.59	up	IGFBP6
8100541a	4.37E-04	2.10	up	IGFBP7;POLR2B
8058670a	3.37E-02	1.54	up	IKZF2
8043995a	1.48E-03	3.19	up	IL1R1
8105411a	7.93E-04	6.01	up	IL31RA
8139207a	2.70E-04	2.67	up	INHBA
8044927a	1.30E-02	1.74	up	INHBB
8102950a	1.09E-03	2.53	up	INPP4B
8033362a	6.72E-03	1.70	down	INSR
8059878a	1.25E-05	3.65	down	IQCA1;LOC100129258
8089954a	2.64E-02	1.52	down	IQCB1
8120826a	2.06E-02	1.58	down	IRAK1BP1
7956878a	9.13E-04	7.52	down	IRAK3
8110872a	4.37E-03	2.49	up	IRX2
8035465a	3.78E-03	2.92	down	ISYNA1
8001211a	5.76E-04	2.32	up	ITFG1
8001233a	2.70E-04	1.82	up	ITFG1
8105267a	2.29E-02	2.83	up	ITGA2
8046695a	2.65E-02	2.72	down	ITGA4;CERKL
7963786a	2.70E-04	2.14	up	ITGA5
8046380a	4.82E-03	1.76	up	ITGA6
8078619a	2.14E-03	1.50	down	ITGA9
8007931a	6.71E-03	2.29	up	ITGB3
8090162a	3.80E-03	1.72	up	ITGB5
7969861a	2.21E-04	2.74	up	ITGBL1
7936242a	5.88E-04	1.69	up	ITPRIP
8064978a	3.71E-03	2.37	up	JAG1

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8116998a	9.45E-04	1.60	up	JARID2
8138789a	1.32E-03	1.90	up	JAZF1
8143341a	6.37E-03	1.55	down	JHDM1D
8171248a	2.35E-03	1.81	up	KAL1
8015526a	6.21E-04	2.09	down	KAT2A
8067033a	1.61E-02	1.60	up	KCNG1
7909730a	3.23E-02	2.05	up	KCNK2
8126153a	2.93E-02	1.53	down	KCNK5
7934570a	7.63E-03	3.69	up	KCNMA1
7957126a	8.65E-04	2.02	down	KCNMB4
8120654a	4.58E-06	8.85	down	KCNQ5
8022646a	5.91E-03	1.63	up	KCTD1
7971369a	1.13E-04	2.97	up	KCTD4
8177232a	8.70E-04	5.11	up	KDM5D
8040802a	7.66E-03	1.64	down	KHK
8163275a	4.15E-03	1.53	down	KIAA0368
7911854a	3.89E-02	1.54	down	KIAA0495
7902977a	3.61E-04	2.65	down	KIAA1107
7926679a	1.20E-03	3.00	up	KIAA1217
8122279a	3.12E-03	3.05	down	KIAA1244;LOC202451
8160981a	2.97E-03	1.57	up	KIAA1539
7910600a	4.41E-02	1.60	down	KIAA1804
8157246a	4.66E-03	1.66	down	KIAA1958
8124088a	3.49E-04	1.55	up	KIF13A
8016147a	5.45E-03	1.76	down	KIF18B
8016139a	5.12E-03	1.65	down	KIF18B
7929078a	3.78E-03	1.54	down	KIF20B
8162019a	2.45E-03	1.98	down	KIF27;LOC389765
8114030a	1.61E-03	1.73	down	KIF3A
8045637a	2.48E-03	4.78	down	KIF5C
8001587a	3.61E-03	1.51	up	KIFC3
8095110a	4.64E-02	3.38	up	KIT
7965322a	6.00E-03	1.96	up	KITLG
8040211a	2.55E-03	1.75	up	KLF11
7972003a	6.00E-03	1.67	up	KLF12
8015456a	1.84E-03	1.91	down	KLHL11
8046186a	1.91E-03	2.05	down	KLHL23;PHOSPHO2
8015387a	2.37E-02	2.71	up	KRT17
8013042a	4.06E-02	1.97	up	KRT17
7955613a	1.30E-02	1.57	down	KRT7
7963353a	5.68E-03	4.97	up	KRT81
8175871a	1.79E-03	2.02	up	L1CAM
8022176a	8.72E-03	2.04	down	LAMA1
8142194a	3.49E-03	2.14	up	LAMB1
7924029a	1.75E-03	2.63	up	LAMB3
7908041a	6.00E-03	1.65	up	LAMC1

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
7908072a	1.90E-03	3.75	up	LAMC2
8092348a	2.36E-02	1.92	down	LAMP3
7971461a	6.37E-03	3.29	up	LCP1
8099524a	2.23E-03	1.51	up	LDB2
8175539a	4.61E-03	1.95	up	LDOC1
8145942a	3.26E-02	1.64	up	LETM2
8099685a	7.99E-03	1.87	down	LGI2
7947199a	7.16E-04	3.76	up	LGR4
7971150a	3.08E-03	1.60	up	LHFP
8112803a	6.15E-04	1.98	up	LHFPL2
7908529a	1.98E-03	2.04	down	LHX9
8094688a	1.66E-02	1.52	up	LIAS
8006479a	1.34E-03	1.99	down	LIG3
8077490a	2.13E-02	1.63	up	LMCD1
7998381a	3.38E-03	2.05	down	LMF1
8036302a	1.78E-03	1.78	down	LOC100127980
8012464a	9.15E-03	1.86	up	LOC100128288
8135585a	5.80E-03	2.73	up	LOC100128868
8015798a	1.26E-02	1.51	down	LOC100130581
8155503a	2.54E-03	2.04	up	LOC100132167;LOC100292301
8155516a	1.02E-02	1.62	up	LOC100132167;LOC100292301
7933572a	1.35E-02	1.63	down	LOC100133130
8154727a	1.31E-02	1.59	down	LOC138412
8034097a	6.36E-03	1.53	down	LOC147727
8044346a	1.36E-03	1.92	down	LOC151009;LOC440894
8054517a	1.48E-03	1.84	down	LOC151009;LOC440894
8116128a	7.59E-03	1.50	down	LOC202181
8056968a	1.83E-04	3.14	up	LOC375295
7986428a	3.75E-02	1.52	down	LOC400464;LOC100288426
8160431a	3.08E-04	4.25	up	LOC554202
8168412a	2.54E-02	1.61	down	LOC554203
8112306a	5.68E-03	1.65	up	LOC57399
8161190a	4.04E-02	1.52	up	LOC646993
8077499a	1.52E-02	1.53	up	LOH3CR2A
8113709a	1.58E-02	2.15	up	LOX
7984771a	1.22E-03	1.99	up	LOXL1
8149774a	2.21E-04	2.21	up	LOXL2
8110841a	3.95E-02	1.73	down	LPCAT1
7995697a	3.50E-03	2.19	up	LPCAT2
7902565a	1.74E-02	11.85	up	LPHN2
8088642a	1.06E-02	2.57	up	LRIG1
7956301a	1.79E-03	2.04	up	LRP1
8092839a	4.09E-02	1.55	up	LRRC15
8092009a	5.73E-05	2.07	down	LRRC34
8016259a	4.15E-03	1.92	down	LRRC37A2;LRRC37A3;LOC100294335;LOC644397
8007867a	1.63E-02	1.66	down	LRRC37A2;LRRC37A3;LRRC37A4;LOC100294335

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8016245a	3.42E-03	1.57	down	LRRC37A4;LRRC37A3;LRRC37A2;LOC652203
8137215a	6.21E-03	1.61	down	LRRC61
7902861a	2.63E-03	1.83	down	LRRC8B
8041383a	5.67E-04	2.04	up	LTBP1
7980152a	4.53E-02	1.67	up	LTBP2
7949412a	2.08E-02	1.53	up	LTBP3
8148553a	7.30E-04	2.24	up	LY6K
8113064a	1.81E-02	1.53	up	LYSMD3
8156167a	2.25E-02	1.50	down	MAK10
8148040a	1.71E-03	14.73	down	MAL2
8170420a	2.70E-04	3.45	up	MAMLD1
7961365a	1.56E-02	1.87	down	MANSC1
8106098a	1.77E-03	1.59	up	MAP1B
8171653a	3.07E-03	2.55	down	MAP3K15;PDHA1
8171725a	1.05E-02	2.70	down	MAP7D2
8080013a	1.27E-02	1.58	up	MAPKAPK3
7909841a	6.21E-04	9.26	down	MARK1
8177498a	2.63E-03	2.81	up	MARVELD2
8113059a	9.10E-03	1.60	up	MBLAC2
8092358a	5.75E-03	1.91	down	MCF2L2
7917283a	1.86E-04	2.82	down	MCOLN2
7917304a	3.74E-04	3.41	down	MCOLN3
8014841a	5.78E-03	1.58	down	MED1
8003922a	3.11E-03	1.53	down	MED11
8083360a	2.73E-03	2.79	down	MED12L
8014925a	5.21E-03	1.66	down	MED24
7976795a	2.43E-02	1.59	up	MEG3
8042356a	7.67E-04	4.20	up	MEIS1
8044391a	9.09E-03	1.64	down	MERTK
8148917a	2.79E-03	1.73	up	MFSD3
8136662a	1.25E-05	6.28	up	MGAM
8054135a	1.27E-05	6.27	down	MGAT4A
8175256a	5.98E-03	1.79	down	MGC16121
8074695a	4.68E-03	1.53	up	MGC16703
8123606a	1.51E-02	2.13	down	MGC39372
8007799a	1.56E-03	2.05	down	MGC57346
8171297a	3.08E-04	2.64	up	MID1
8166797a	2.40E-03	1.65	up	MID1IP1
8169249a	5.27E-03	2.26	down	MID2
7973985a	5.21E-03	1.85	down	MIPOL1
7969576a	9.09E-03	1.79	down	MIR17HG
7932733a	1.50E-03	2.87	down	MKX
7905329a	7.34E-03	2.01	up	MLLT11
8049487a	5.98E-03	1.67	up	MLPH
8007290a	1.66E-03	1.59	down	MLX;PSMC3IP
7951271a	4.40E-03	6.24	up	MMP1

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
7973336a	2.51E-03	1.99	up	MMP14
8151684a	2.70E-04	5.13	up	MMP16
8151686a	2.31E-04	4.78	up	MMP16
7995681a	3.72E-03	4.49	up	MMP2
8062123a	3.22E-02	1.62	up	MMP24
7951284a	1.87E-02	1.66	up	MMP3
7989146a	6.68E-03	3.01	down	MNS1
8020955a	3.48E-02	1.64	down	MOCOS
7909877a	7.26E-04	2.96	down	MOSC1
8129573a	2.85E-02	2.15	up	MOXD1
8003068a	1.86E-04	1.96	down	MPHOSPH6
8176174a	1.28E-03	1.75	up	MPP1
8058273a	2.31E-04	4.19	up	MPP4
7932765a	9.51E-03	3.11	down	MPP7
7907893a	4.75E-03	1.67	up	MR1
8006762a	3.66E-03	1.56	down	MRPL45
8162880a	3.51E-03	1.70	down	MRPL50
8105181a	1.50E-02	1.73	down	MRPS30
8157638a	3.34E-03	1.69	down	MRRF
8106633a	5.96E-03	1.67	up	MSH3
7992071a	2.85E-04	2.18	up	MSLN
8145766a	5.35E-04	3.46	up	MST131
7995806a	2.05E-03	2.01	down	MT1A
7995825a	1.53E-02	1.76	down	MT1F
8170428a	1.34E-02	1.57	up	MTM1
8170443a	6.21E-04	1.68	up	MTMR1
7919669a	3.42E-04	1.94	up	MTMR11
8173245a	3.08E-04	6.37	down	MTMR8;ASB12
8104422a	1.86E-02	1.55	down	MTRR
7994659a	9.13E-04	1.80	up	MVP
7988444a	3.48E-02	2.04	down	MYEF2;SLC24A5
8111153a	2.73E-02	1.51	up	MYO10
8014115a	2.77E-04	2.84	down	MYO1D
7988876a	2.78E-03	2.78	down	MYO5C
8005048a	1.56E-02	1.88	up	MYOCD
8141872a	1.97E-02	1.71	up	NAPEPLD
7908694a	2.93E-03	1.83	up	NAV1
7957298a	3.79E-02	1.96	up	NAV3
8007471a	1.56E-03	1.94	down	NBR1
8007462a	9.57E-03	1.56	down	NBR2
7943892a	1.06E-02	5.01	down	NCAM1
8067985a	3.37E-02	2.78	up	NCAM2
7922773a	1.38E-02	1.92	up	NCF2
8055323a	3.67E-02	1.72	up	NCKAP5
7992402a	6.65E-03	1.52	up	NDUFB10
8105311a	4.32E-03	1.59	up	NDUFS4

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
7916986a	6.32E-03	3.18	up	NEGR1
7925954a	3.30E-04	1.72	up	NET1
8001197a	8.68E-04	2.32	up	NETO2
7909027a	2.12E-02	1.77	up	NFASC
7901788a	1.25E-05	6.59	down	NFIA
8028552a	1.78E-03	1.71	down	NFKBIB
7952677a	3.74E-04	1.52	down	NFRKB
7925320a	1.26E-02	2.17	down	NID1
7986675a	6.20E-04	1.91	down	NIPA1
7898939a	1.71E-03	1.57	up	NIPAL3
8109563a	1.15E-02	1.98	down	NIPAL4
8157027a	4.94E-02	1.57	down	NIPSNAP3B
8007197a	6.50E-03	1.72	down	NKIRAS2
8014214a	2.58E-03	1.69	down	NLE1
8083757a	1.08E-03	1.62	down	NMD3
7991837a	1.07E-02	1.69	up	NME4
8055702a	2.35E-02	1.56	down	NMI
8007715a	1.24E-03	1.57	down	NMT1
8162352a	2.76E-03	1.83	down	NOL8
8148049a	8.87E-04	3.38	down	NOV
7978391a	1.17E-02	1.85	up	NOVA1
8155121a	3.84E-03	1.52	down	NPR2
8106923a	2.36E-03	1.50	up	NR2F1
8103094a	4.00E-02	1.66	down	NR3C2
8145736a	2.29E-03	2.35	up	NRG1
8069553a	8.87E-04	2.63	up	NRIP1
7932985a	1.25E-03	5.04	up	NRP1
8047738a	2.75E-03	2.69	up	NRP2
8094759a	1.50E-04	1.83	down	NSUN7
8015445a	4.45E-04	1.59	down	NT5C3L
7953284a	4.58E-06	4.32	up	NTF3
7945245a	2.79E-02	1.63	up	NTM
7965573a	3.57E-04	6.01	up	NTN4
7966026a	3.08E-02	1.56	down	NUAK1
8152340a	8.33E-04	1.59	down	NUDCD1
8085431a	7.46E-04	4.88	down	NUP210
7936134a	5.42E-04	1.99	up	OBFC1
8109752a	2.97E-02	2.04	down	ODZ2
7995755a	1.03E-03	1.69	up	OGFOD1
7921882a	3.13E-03	2.58	up	OLFML2B
7961142a	2.07E-02	5.53	down	OLR1
8173310a	1.69E-02	1.54	up	OPHN1
7925492a	2.65E-03	2.66	up	OPN3;KMO
7911241a	1.46E-02	1.66	up	OR2L8
7994981a	1.55E-02	1.50	up	ORAI3
7995354a	1.56E-03	1.55	up	ORC6L

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8046646a	2.70E-03	2.25	up	OSBPL6
8155883a	4.37E-03	1.64	up	O STF1
7976425a	1.06E-02	1.57	up	OTUB2
8147848a	3.11E-02	1.75	down	OXR1
8011415a	6.20E-04	3.31	down	P2RX5
8113981a	1.36E-03	1.67	up	P4HA2
8151512a	1.76E-02	1.89	up	PAG1
8052940a	1.11E-02	1.70	down	PAIP2B
7947512a	3.30E-03	4.58	up	PAMR1
8157487a	5.74E-03	3.56	up	PAPPA;PAPPAS
8102214a	3.34E-03	1.70	up	PAPSS1
8120215a	6.37E-03	1.57	up	PAQR8
8047709a	1.51E-02	1.79	down	PARD3B
8143327a	1.64E-03	1.71	down	PARP12
8082100a	7.05E-03	1.81	down	PARP14
8080144a	2.07E-03	1.69	up	PARP3
8105191a	3.62E-02	1.54	up	PARP8
8073662a	4.15E-03	1.76	down	PARVB
8073682a	2.44E-02	1.90	down	PARVG
7947338a	1.63E-03	6.09	down	PAX6
7973974a	4.17E-03	2.62	down	PAX9
7906954a	1.48E-02	2.26	up	PBX1
8087806a	6.37E-03	1.71	up	PCBP4
8097449a	3.64E-02	1.53	up	PCDH10
8108733a	1.50E-02	1.60	down	PCDHB12
8108753a	2.85E-04	3.51	down	PCDHB15
8108749a	2.52E-02	2.08	down	PCDHB18
8108713a	2.29E-02	2.71	down	PCDHB8
8150714a	3.53E-02	1.77	down	PCMTD1
8138888a	3.79E-03	4.05	up	PDE1C
8122222a	6.51E-03	2.18	up	PDE7B
8103399a	2.15E-03	1.66	up	PDGFC
8096489a	2.35E-02	1.57	up	PDLIM5
8116070a	2.83E-03	1.55	up	PDLIM7
7998820a	2.05E-04	2.09	up	PDPK1;FLJ42627
7997239a	2.12E-02	1.77	down	PDXDC2;NPIP;NPIPL2;LOC728741;LOC730153
8059996a	3.95E-03	1.52	up	PER2
7897378a	3.08E-04	2.22	up	PER3;UTS2
8047467a	1.83E-04	3.35	up	PFTK2
8173551a	3.30E-04	5.33	down	PHKA1
7995382a	6.22E-04	1.86	up	PHKB
7965040a	7.99E-03	2.05	up	PHLDA1
7923372a	6.21E-04	1.65	up	PHLDA3
8059565a	1.98E-03	1.91	up	PID1
8023605a	8.10E-03	1.50	down	PIGN
8013641a	2.36E-02	1.59	down	PIGS

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8105778a	2.15E-03	1.79	up	PIK3R1
7915787a	1.20E-03	2.42	up	PIK3R3
8147012a	4.46E-02	1.59	up	PKIA
7998886a	3.64E-03	1.61	up	PKMYT1
8056151a	9.34E-03	1.85	down	PLA2R1
8150509a	3.57E-02	2.02	up	PLAT
7961440a	8.90E-04	5.21	down	PLBD1
8060897a	9.63E-03	2.87	down	PLCB4
7929388a	1.98E-03	2.27	up	PLCE1
7997453a	7.37E-05	1.68	down	PLCG2
8176286a	1.14E-03	2.28	down	PLCXD1
8145977a	9.64E-03	1.80	up	PLEKHA2
7996516a	5.49E-03	1.64	up	PLEKHG4
8016239a	2.72E-02	1.50	down	PLEKHM1
8160297a	1.46E-03	1.54	up	PLIN2
8169061a	9.13E-04	1.53	up	PLP1
8091327a	3.49E-02	1.55	down	PLSCR1
8091306a	3.44E-03	3.41	down	PLSCR4
8066619a	2.60E-03	3.05	down	PLTP
8067233a	2.53E-02	1.68	up	PMEPA1
8073633a	7.78E-04	2.30	up	PNPLA3
7901535a	1.28E-02	1.58	down	PODN
8082368a	1.21E-03	2.00	down	PODXL2
7949746a	9.34E-04	1.54	up	POLD4
8158866a	1.48E-03	1.80	down	POMT1
8167287a	2.82E-03	1.92	up	PORCN
8045257a	2.99E-02	1.56	down	POTEE;POTEF;POTEH;POTEG;POTEC;P704P;POTEK
8112107a	6.75E-04	1.83	up	PPAP2A;SKIV2L2
7930980a	2.31E-04	6.46	up	PPAPDC1A
7954559a	6.83E-03	1.53	up	PPFIBP1
8008768a	3.00E-03	1.87	down	PPM1E
7942503a	2.20E-03	1.98	down	PPME1
7934997a	2.70E-04	3.67	up	PPP1R3C
8134351a	5.80E-04	3.06	down	PPP1R9A
7976451a	1.34E-03	1.93	down	PPP4R4
8149250a	3.52E-03	1.67	up	PRAGMIN
7962375a	1.79E-04	5.76	up	PRICKLE1
8088550a	1.97E-04	3.14	up	PRICKLE2
7919305a	1.37E-03	1.65	up	PRKAB2
8143961a	3.78E-03	1.60	up	PRKAG2
8009301a	8.04E-03	1.78	up	PRKCA
7974835a	1.41E-02	2.06	down	PRKCH
8171182a	2.66E-04	3.76	down	PRKX
8176460a	2.70E-04	2.21	up	PRKY
8062108a	1.14E-03	1.68	up	PROCR
8166049a	6.93E-03	1.65	down	PRPS2

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8069582a	1.28E-03	18.90	up	PRSS7
7989073a	2.05E-04	2.59	down	PRTG
8156043a	3.43E-02	1.53	down	PSAT1
8149551a	1.45E-02	2.17	up	PSD3
8149555a	1.70E-02	2.08	up	PSD3
8006812a	3.64E-03	1.54	down	PSMB3
8015642a	3.74E-03	1.63	down	PSMC3IP;MLX
8006392a	1.75E-03	1.56	down	PSMD11
8006984a	1.48E-03	1.51	down	PSMD3
8007397a	3.01E-03	1.61	down	PSME3
8161632a	2.11E-03	1.72	down	PTAR1
8106107a	1.17E-03	1.87	up	PTCD2
7926356a	3.59E-03	3.44	down	PTER;C1QL3
7974366a	1.51E-02	2.57	up	PTGER2
7902527a	9.11E-03	2.44	up	PTGFR
8163328a	2.17E-02	1.58	down	PTGR1
7932420a	2.63E-03	1.62	up	PTPLA
8022393a	1.10E-03	1.68	down	PTPN2
7980616a	4.37E-03	1.67	up	PTPN21
7918657a	8.63E-04	2.82	up	PTPN22
8163149a	6.53E-03	1.88	down	PTPN3
7931353a	3.69E-03	1.73	up	PTPRE
8080810a	2.48E-03	1.95	up	PTPRG
8032926a	5.30E-03	2.43	up	PTPRS
8015635a	3.08E-03	1.79	down	PTRF
8001030a	2.94E-04	2.29	down	PYCARD
7989069a	2.00E-03	1.90	down	PYGO1
8021301a	1.03E-03	3.25	up	RAB27B
7957072a	1.95E-03	1.77	down	RAB3IP
8177478a	3.97E-03	1.63	up	RAD17
8020100a	5.70E-03	1.52	down	RALBP1
8157949a	3.38E-03	1.58	down	RALGPS1
8078286a	1.03E-03	8.77	up	RARB;LOC100130354
8106784a	7.19E-03	1.87	up	RASA1
7907611a	7.67E-04	1.63	up	RASAL2
7990774a	3.94E-02	5.29	down	RASGRF1
7987405a	3.87E-02	1.73	down	RASGRP1
8041422a	1.53E-02	2.32	up	RASGRP3
8064790a	3.03E-02	1.63	down	RASSF2
7902023a	1.11E-03	6.36	down	RAVER2
8150757a	1.23E-03	1.85	down	RB1CC1
7956261a	1.57E-03	1.70	up	RBMS2
7897522a	1.83E-04	7.60	down	RBP7
7989670a	1.91E-03	1.75	down	RBPMS2
8014326a	7.72E-03	1.67	down	RDM1
8106978a	1.13E-03	1.87	up	RFESD;SPATA9

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8101916a	5.79E-03	1.70	down	RG9MTD2
7908125a	1.29E-03	1.81	up	RGL1
8180144a	1.56E-03	1.50	up	RGL2
8106210a	1.78E-03	1.70	up	RGNEF
7906919a	2.47E-02	4.92	up	RGS4
8105596a	2.55E-03	1.58	down	RGS7BP
7998136a	1.22E-03	1.56	up	RHBDF1
7963009a	7.02E-04	2.33	down	RHEBL1
8006345a	1.20E-03	1.62	down	RHOT1
8113286a	3.21E-02	1.57	up	RIOK2
8070489a	1.91E-02	2.34	up	RIPK4
8156126a	3.23E-02	1.53	down	RMI1
8050079a	2.15E-03	1.61	up	RNASEH1
8083310a	1.79E-03	1.55	down	RNF13
8105585a	3.06E-03	2.55	down	RNF180
8116980a	2.04E-03	2.00	up	RNF182
8156945a	4.19E-02	1.57	down	RNF20
7948894a	5.00E-02	2.14	up	RNU2-1;RNU2-2;WDR74
7901969a	4.05E-03	1.56	up	ROR1
8014749a	1.57E-02	1.54	down	RPL23;SNORA21
7989493a	2.45E-02	1.50	up	RPS27L
8176375a	5.39E-04	78.72	up	RPS4Y1
8176730a	3.06E-03	1.84	up	RPS4Y2
8130739a	5.64E-03	1.86	up	RPS6KA2
8027354a	3.66E-03	3.24	down	RPSAP58
7952549a	2.80E-04	1.58	down	RPUSD4
8128123a	1.29E-03	4.66	down	RRAGD
7935425a	2.15E-03	1.52	down	RRP12
7995994a	1.62E-02	1.54	up	RSPRY1
8053142a	5.40E-04	1.80	up	RTKN
8120043a	3.23E-03	1.55	up	RUNX2
7920128a	1.42E-03	1.56	up	S100A11
7920291a	2.34E-04	1.95	up	S100A16
7920285a	2.30E-02	1.54	up	S100A2
7903393a	1.00E-03	2.22	up	S1PR1
7938758a	2.82E-02	1.53	down	SAA1
8058091a	1.61E-03	2.37	up	SATB2
7944656a	3.44E-02	1.73	down	SC5DL
8106479a	6.20E-04	1.94	up	SCAMP1
8091778a	2.80E-02	1.50	down	SCARNA7
8101366a	7.10E-03	1.69	up	SCD5
8166278a	9.66E-03	1.71	down	SCML1
8171561a	1.37E-02	1.66	down	SCML2
8056491a	3.85E-02	1.68	up	SCN9A
8003060a	4.32E-03	2.61	down	SDR42E1
8083826a	6.01E-04	1.71	down	SEC62

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8020254a	2.05E-03	1.54	down	SEH1L
7919984a	2.68E-02	1.94	down	SELENBP1
8075462a	5.54E-03	1.53	down	SELM
8140668a	4.15E-03	9.04	up	SEMA3A
8079966a	3.05E-03	1.69	up	SEMA3B
8140534a	1.52E-02	1.59	up	SEMA3C
8079896a	2.35E-03	1.56	up	SEMA3F
8162236a	3.75E-03	3.60	down	SEMA4D
7990345a	5.60E-03	2.19	up	SEMA7A
8112865a	1.51E-02	1.76	up	SERINC5
8021635a	7.55E-03	6.46	up	SERPINB2;SERPINB10
8021623a	4.05E-03	4.65	up	SERPINB7
8059376a	5.21E-03	2.00	up	SERPINE2
7909503a	1.13E-02	3.14	down	SERTAD4
8021047a	4.79E-04	1.96	up	SETBP1
8150428a	2.22E-03	6.53	up	SFRP1
8112337a	8.16E-03	1.53	up	SFRS12IP1
7943288a	4.73E-03	1.54	down	SFRS2B
7929919a	2.35E-04	1.87	up	SFXN3
8085556a	5.11E-03	1.57	up	SH3BP5
8103166a	7.59E-03	1.62	up	SH3D19
8108912a	4.37E-04	3.64	up	SH3RF2
8114991a	4.41E-02	1.59	up	SH3TC2
8153652a	1.59E-03	1.57	up	SHARPIN
8001133a	6.62E-04	1.67	up	SHCBP1
7920506a	3.30E-04	1.85	down	SHE
7970676a	3.61E-04	3.31	up	SHISA2
8130038a	2.55E-03	1.54	down	SHPRH
7952408a	6.49E-04	1.85	down	SIAE
7971419a	1.20E-03	1.65	down	SIAH3
8068496a	9.63E-03	1.77	down	SIM2
7975459a	2.26E-02	1.78	up	SIPA1L1
7925062a	4.91E-02	1.79	up	SIPA1L2
8138689a	3.71E-04	7.47	down	SKAP2
8083876a	4.17E-02	1.59	down	SKIL
7969533a	8.24E-04	4.56	down	SLAIN1
8151559a	1.86E-03	1.90	down	SLC10A5
8002152a	3.78E-03	1.63	up	SLC12A4
8110755a	1.76E-02	2.16	down	SLC12A7
8121515a	4.53E-04	1.70	down	SLC16A10
8168424a	1.27E-03	2.72	up	SLC16A2
7978692a	1.14E-02	1.55	down	SLC25A21
7971388a	1.66E-03	1.61	up	SLC25A30
8145291a	9.74E-03	1.80	up	SLC25A37
8145281a	8.86E-03	1.70	up	SLC25A37
8177003a	1.17E-02	1.52	down	SLC25A6;LOC138412

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
7983650a	4.15E-02	2.98	down	SLC27A2
7960850a	3.62E-02	1.75	up	SLC2A14
7960865a	3.21E-02	2.81	up	SLC2A3
8162586a	9.92E-03	1.51	down	SLC35D2
8068810a	1.34E-02	1.66	down	SLC37A1
7944931a	8.97E-03	2.54	up	SLC37A2
7962559a	1.65E-03	3.35	up	SLC38A4
8112121a	6.81E-03	1.51	up	SLC38A9
8057677a	1.62E-02	2.12	down	SLC40A1
7948249a	5.64E-03	1.62	down	SLC43A1
8011093a	4.69E-03	1.57	down	SLC43A2
8005603a	5.35E-04	4.18	down	SLC47A1
8095585a	2.68E-04	4.18	up	SLC4A4
8001082a	1.56E-03	2.21	up	SLC6A8;SLC6A10P
8051762a	7.22E-04	3.55	up	SLC8A1
8063923a	1.48E-03	1.90	down	SLCO4A1;hCG_2018279
8014233a	1.71E-03	1.85	down	SLFN11
8014241a	4.05E-03	1.84	down	SLFN12
8014248a	2.29E-02	1.61	down	SLFN13
8115691a	6.88E-04	2.73	up	SLIT3
7972239a	1.30E-02	1.59	up	SLITRK6
8015039a	6.69E-04	1.73	down	SMARCE1;KRT222
8156982a	5.04E-03	1.57	down	SMC2
8155770a	9.98E-03	1.60	down	SMC5
8136080a	5.60E-03	1.55	down	SMO
7925589a	8.28E-03	1.85	up	SMYD3
8150698a	4.24E-03	4.41	up	SNAI2
8060963a	7.93E-04	1.87	up	SNAP25
8101762a	4.67E-02	2.17	up	SNCA
7982098a	3.30E-02	2.33	up	SNORD109A;SNORD109B
7976816a	4.91E-02	3.94	up	SNORD114-3
7981949a	1.97E-02	3.45	up	SNORD116-1
7981970a	1.34E-02	2.26	up	SNORD116-11
7981974a	1.43E-02	2.05	up	SNORD116-13
7981992a	1.90E-02	1.82	up	SNORD116-22
7981994a	8.97E-03	2.47	up	SNORD116-23
7981996a	3.00E-02	3.81	up	SNORD116-24
7982002a	2.48E-02	1.81	up	SNORD116-27
7982006a	1.02E-02	1.76	up	SNORD116-29
7981960a	4.22E-02	2.37	up	SNORD116-6
7981964a	2.37E-02	2.97	up	SNORD116-8;SNORD116-3;SNORD116-9
8145793a	5.99E-03	3.40	up	SNORD13
8086752a	7.36E-03	3.42	up	SNORD13;RNU13P3
7952335a	2.36E-03	1.59	down	SNORD14E
8159004a	2.63E-02	1.57	down	SNORD24;RPL7A
8159006a	3.07E-02	1.57	down	SNORD36B

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8158998a	6.72E-03	1.82	down	SNORD36C;SNORD36A;RPL7A
8005955a	2.55E-03	1.83	down	SNORD42A
8005951a	7.43E-03	1.64	down	SNORD42B
8005957a	1.34E-02	1.64	down	SNORD4B
7981919a	2.42E-02	2.47	up	SNRPN;SNURF
8131957a	6.62E-03	2.65	down	SNX10
7983393a	9.39E-03	1.77	down	SORD
8009517a	1.28E-03	1.73	up	SOX9
7944869a	2.70E-04	2.63	down	SPA17;SIAE
8013671a	3.11E-03	1.60	down	SPAG5;FLJ25006
8175572a	1.29E-02	1.87	up	SPANXN3
7984488a	7.08E-05	2.52	down	SPESP1;NOX5
7914467a	1.77E-03	1.92	up	SPOCD1
8114287a	1.19E-02	3.85	up	SPOCK1
7972217a	4.18E-02	1.57	up	SPRY2
8060997a	4.77E-05	50.35	up	SPTLC3
8148280a	1.38E-02	1.61	down	SQLE
8073522a	1.88E-02	1.72	down	SREBF2
7956759a	1.06E-02	1.64	up	SRGAP1
8172043a	2.45E-03	4.23	up	SRPX
8168749a	7.26E-04	4.16	up	SRPX2
7954481a	2.52E-02	1.58	up	SSPN
7974047a	8.29E-03	1.99	down	SSTR1
8053484a	3.44E-02	1.57	up	ST3GAL5
8006877a	2.88E-03	1.64	down	STARD3
8113491a	4.32E-02	1.71	down	STARD4
8015607a	1.83E-03	1.74	down	STAT3
8007212a	1.10E-02	1.72	down	STAT5A
8015590a	1.97E-03	1.97	down	STAT5B
8149825a	4.05E-03	5.20	up	STC1
8115851a	1.20E-03	2.44	up	STC2
8044793a	3.08E-03	1.54	up	STEAP3
8132503a	1.03E-03	1.62	up	STK17A
7946365a	2.44E-02	1.82	down	STK33
7927915a	1.34E-03	1.94	down	STOX1
8098549a	5.02E-03	1.61	down	STOX2
8164013a	1.79E-04	2.82	down	STRBP
8000963a	1.87E-03	1.60	up	STX1B
8146863a	3.82E-02	3.21	down	SULF1
8163383a	3.50E-02	1.64	down	SUSD1
8156393a	1.00E-03	2.28	down	SUSD3
8086051a	3.44E-02	1.63	up	SUSD5
7947147a	6.67E-03	2.46	down	SVIP
7917322a	3.08E-04	2.36	down	SYDE2
7914557a	2.41E-04	1.99	up	SYNC
8010243a	2.35E-03	1.78	down	SYNGR2

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8014551a	1.16E-02	1.55	down	SYNRG
7950810a	1.48E-04	3.52	up	SYTL2
8123080a	2.83E-03	1.85	up	SYTL3
8006573a	2.65E-03	1.51	down	TAF15
8020702a	3.45E-04	2.49	down	TAF4B
8009075a	1.57E-03	1.99	up	TANC2
7966851a	3.27E-02	1.51	up	TAOK3
8014603a	3.50E-03	1.96	down	TBC1D3;TBC1D3B-D;TBC1D3F-H;TBC1D3P2
8014633a	2.46E-02	2.10	down	TBC1D3D;TBC1D3C;TBC1D3H;TBC1D3F;TBC1D3B
8102171a	5.57E-03	1.87	up	TBCK
8138997a	1.20E-03	2.02	down	TBX20
7966690a	5.64E-03	2.20	up	TBX3
8023415a	1.53E-02	4.63	down	TCF4
8156688a	7.05E-03	1.73	down	TDRD7
7920057a	3.47E-03	2.21	down	TDRKH
8135576a	1.20E-03	3.27	up	TES
8063536a	6.46E-03	3.01	down	TFAP2C
8057599a	1.21E-03	1.79	up	TFPI
8052872a	2.15E-03	3.42	up	TGFA
7995206a	2.06E-03	1.71	up	TGFB1I1
8108217a	3.55E-03	1.61	up	TGFBI
8078350a	1.47E-03	2.54	up	TGFBR2
7917649a	1.57E-02	1.81	up	TGFBR3
8021924a	7.41E-04	1.60	down	THOC1
7992795a	2.63E-02	1.56	up	THOC6;HCFC1R1
8085797a	1.02E-02	1.64	up	THRB
7971813a	4.15E-03	1.64	up	THSD1
7984588a	3.58E-02	1.54	up	THSD4
8001818a	1.08E-02	1.67	up	TK2
8013771a	7.84E-03	1.88	down	TLCD1
8098214a	2.36E-02	3.95	up	TLL1
7984019a	3.23E-03	1.61	up	TLN2
8099841a	2.44E-02	1.67	up	TLR6
8091411a	1.29E-02	1.67	up	TM4SF1
7954985a	2.24E-02	1.71	up	TMEM117
8120239a	3.57E-04	2.12	up	TMEM14A
8099850a	3.85E-02	2.51	up	TMEM156
8112967a	1.39E-03	1.76	up	TMEM167A
8106170a	3.51E-02	1.67	up	TMEM171
7995448a	8.70E-04	1.51	up	TMEM188
8157092a	2.56E-03	2.36	down	TMEM38B
8172022a	1.73E-04	60.58	up	TMEM47
8151756a	2.08E-02	1.52	up	TMEM55A
7903162a	1.40E-02	2.06	down	TMEM56
7983157a	1.40E-03	1.83	down	TMEM62
8152976a	3.98E-02	1.96	down	TMEM71

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8005839a	9.66E-03	1.57	down	TMEM97
8006415a	8.39E-04	8.66	down	TMEM98
8007108a	2.38E-03	1.93	down	TMEM99
7983734a	2.87E-02	1.96	up	TMOD2
8007594a	4.67E-03	1.61	down	TMUB2
8163637a	2.45E-03	4.19	up	TNC
7977046a	7.37E-03	1.79	down	TNFAIP2
8122265a	7.59E-03	1.81	down	TNFAIP3
8149749a	1.64E-02	1.77	up	TNFRSF10D
8152512a	1.21E-03	8.25	down	TNFRSF11B
7912145a	3.06E-02	2.34	down	TNFRSF9
8092095a	3.30E-02	1.87	up	TNIK
8014974a	1.56E-03	1.63	down	TOP2A
8150962a	4.39E-03	5.19	down	TOX
8062782a	1.79E-04	2.61	up	TOX2
8151475a	5.42E-04	1.98	down	TPD52
8040365a	3.67E-02	1.55	up	TRIB2
8162729a	9.12E-04	1.64	down	TRIM14
8113577a	2.05E-03	2.11	down	TRIM36
7911218a	9.15E-03	2.22	down	TRIM58;OR2W3
8091757a	3.35E-03	1.88	down	TRIM59
8102678a	3.55E-03	1.54	down	TRPC3
8164781a	7.55E-03	1.73	down	TSC1
7971350a	2.04E-04	2.05	up	TSC22D1
8063444a	4.53E-03	2.33	up	TSHZ2;LOC100288461
8063437a	1.51E-02	2.14	up	TSHZ2;LOC100288461
7928046a	2.15E-03	2.17	up	TSPAN15
8136067a	5.15E-03	1.74	down	TSPAN33
8101828a	2.15E-03	2.14	up	TSPAN5
8167790a	7.16E-03	1.57	down	TSR2
8075857a	2.04E-02	1.69	down	TST
8153474a	6.21E-03	1.76	up	TSTA3
7943919a	5.04E-03	1.75	down	TTC12
8136495a	1.61E-03	1.85	down	TTC26
8075142a	2.29E-03	2.26	down	TTC28;LOC284900
8113157a	5.30E-03	1.80	up	TTC37
7917199a	3.15E-02	1.60	up	TTLL7
7938269a	7.93E-04	1.75	up	TUB
7963054a	3.97E-03	2.36	up	TUBA1A
8002660a	4.68E-03	1.65	up	TXNL4B
8124650a	4.22E-02	2.22	down	UBD;GABBR1
7970831a	2.98E-03	2.02	up	UBL3
8146544a	4.37E-03	1.55	down	UBXN2B
8026490a	2.58E-03	2.73	down	UCA1
7950307a	2.01E-03	2.50	down	UCP2
7960362a	8.87E-04	2.10	down	UNQ3104

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
7992996a	3.08E-03	1.65	up	UNQ3118
8174717a	1.19E-02	1.59	down	UPF3B
8132725a	2.44E-02	1.54	up	UPP1
8158242a	2.34E-02	1.56	down	URM1
8071155a	1.56E-02	1.65	down	USP18
8074606a	4.39E-03	2.34	down	USP18;USP41
8067903a	5.73E-05	1.62	up	USP25
8166826a	1.78E-03	1.54	up	USP9X
8176578a	3.08E-04	12.17	up	USP9Y
8014081a	6.50E-03	1.61	down	UTP6
8177137a	2.31E-04	16.06	up	UTY
8043197a	8.14E-03	2.81	down	VAMP8
7992967a	1.14E-03	1.71	up	VASN
7962689a	8.87E-04	1.99	up	VDR
8119898a	3.04E-02	1.62	up	VEGFA
8154100a	6.29E-03	1.87	up	VLDLR
8155946a	1.95E-02	1.71	down	VPS13A
8098379a	1.79E-03	3.87	down	WDR17
8112746a	1.45E-03	1.79	up	WDR41
7991126a	2.21E-04	1.51	down	WDR73
8007363a	7.97E-04	1.97	down	WNK4
8088180a	1.88E-02	4.65	up	WNT5A
7966829a	1.10E-03	1.59	up	WSB2
7947363a	1.25E-05	2.97	down	WT1
8004184a	1.88E-03	2.33	down	XAF1
7936284a	1.44E-03	1.53	up	XPNPEP1
8106730a	3.65E-03	1.79	up	XRCC4
8091141a	2.83E-03	1.55	down	XRN1
8168018a	4.12E-03	1.50	down	YIPF6
8074780a	8.68E-03	1.78	down	YPEL1
8147040a	4.77E-05	2.66	down	ZBTB10
8089701a	4.71E-02	2.63	down	ZBTB20
7952739a	3.08E-04	1.59	down	ZBTB44
8167957a	3.52E-03	1.82	down	ZC3H12B
8173261a	1.53E-04	7.00	down	ZC4H2
8003263a	5.42E-04	1.64	down	ZCCHC14
8160151a	1.21E-03	1.92	down	ZDHHC21
8151561a	1.83E-03	1.88	down	ZFAND1
8002692a	1.31E-03	1.55	up	ZFHX3
7996807a	3.80E-03	2.04	up	ZFP90
8176384a	1.10E-03	11.34	up	ZFY
8030002a	3.79E-02	1.53	down	ZNF114
8139832a	9.32E-03	1.88	down	ZNF117
8039771a	1.44E-03	1.57	up	ZNF132
8030954a	1.01E-03	2.19	down	ZNF137
8133057a	1.22E-02	1.57	down	ZNF138

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
7946288a	3.14E-03	1.80	down	ZNF214
7933180a	1.94E-02	1.88	up	ZNF239
8027241a	3.60E-04	5.01	down	ZNF253;ZNF93
8027368a	2.73E-03	1.69	down	ZNF254
8133062a	2.73E-03	1.55	down	ZNF273
8074845a	1.79E-04	5.49	up	ZNF280B
8013305a	6.90E-04	1.61	down	ZNF286A;ZNF286B;TBC1D26
8115196a	3.75E-03	10.36	up	ZNF300
8178275a	2.85E-03	1.69	up	ZNF311
8039006a	2.70E-04	3.85	down	ZNF320
8039013a	6.04E-03	1.53	down	ZNF321
8153896a	1.79E-04	1.90	up	ZNF34
8039054a	1.56E-04	4.47	down	ZNF347
7899870a	5.41E-03	1.73	up	ZNF362
7927747a	2.19E-03	1.50	up	ZNF365
7963774a	6.90E-04	1.75	up	ZNF385A
8027312a	1.45E-02	1.91	down	ZNF429
8035813a	2.60E-03	5.14	down	ZNF43
8027279a	2.87E-02	1.57	down	ZNF430
8027292a	9.52E-03	1.85	down	ZNF431
8031669a	2.18E-03	1.94	down	ZNF470
8157193a	5.98E-03	1.82	down	ZNF483
8162449a	7.19E-03	1.66	down	ZNF484
8027260a	3.03E-02	4.70	down	ZNF486;ZNF93
8027345a	6.32E-03	2.88	down	ZNF492
8027304a	1.02E-02	2.04	down	ZNF493
8035773a	4.44E-03	9.76	down	ZNF506
8162631a	2.45E-03	1.76	down	ZNF510
8099364a	1.66E-03	2.53	down	ZNF518B
8030931a	6.71E-03	2.46	down	ZNF528
8031632a	1.97E-04	11.51	down	ZNF542;LOC283788
8024527a	1.40E-03	1.82	down	ZNF556
8148276a	3.72E-03	2.24	down	ZNF572
8113761a	1.71E-03	2.74	up	ZNF608
8148658a	2.75E-03	1.78	up	ZNF623
7962794a	7.49E-03	1.81	down	ZNF641
8027268a	7.78E-04	2.11	down	ZNF66
8039680a	6.90E-04	1.73	down	ZNF671
8039070a	1.29E-03	2.39	down	ZNF677
7910190a	2.07E-02	1.52	down	ZNF678
8035855a	5.81E-03	1.89	down	ZNF681
8033746a	1.80E-02	1.75	down	ZNF699
8030950a	1.17E-03	2.32	down	ZNF701
8039025a	2.26E-03	2.15	down	ZNF702P
8035803a	2.45E-03	1.90	down	ZNF708
8020377a	4.68E-03	1.70	down	ZNF708;ZNF93

Transcript ID	p-value	Fold Change	Reg	Gene Symbol
8027285a	4.25E-03	1.74	down	ZNF714
8088911a	1.23E-03	4.59	up	ZNF717;LOC100287163
8027363a	1.88E-02	2.12	down	ZNF726
8027348a	2.13E-03	10.78	up	ZNF730
8035793a	6.75E-04	4.42	down	ZNF737
7987361a	4.49E-03	1.60	down	ZNF770
8025992a	1.79E-04	11.64	down	ZNF788
8039692a	3.21E-02	1.70	down	ZNF814;ZNF552;ZNF587;LOC100288322;LOC100293516
8103025a	3.64E-03	1.89	up	ZNF827
8025984a	2.74E-03	2.21	down	ZNF844
8093332a	7.57E-04	4.39	down	ZNF876P
8027254a	6.14E-04	2.49	down	ZNF90;ZNF93
8027247a	6.35E-04	13.36	down	ZNF93
8006627a	7.38E-03	1.62	down	ZNHIT3;MYO19
8105506a	7.11E-03	1.56	up	ZSWIM6

Complete list of all genes meeting t-test comparison between metal-transformed clones and their control clones with p-value less than or equal to 0.05 and a fold-change cut-off of greater than or equal to 1.50

Supplementary Table 6 Pathways in Arsenic-Transformed Clones	
KEGG Pathway	Genes
hsa05322:Systemic lupus erythematosus	HIST1H2BK, HIST2H2BE, HIST2H2BF, H2AFY2, C1S, HIST1H3E, C2, HLA-DMB, HIST2H4A, HLA-DMA, HIST1H3H, HIST2H4B
hsa04623:Cytosolic DNA-sensing pathway	DDX58, POLR3G, POLR3F, IL6, PYCARD, NFKBIA
hsa04512:ECM-receptor interaction	LAMA1, COL4A2, COL4A1, ITGA4, COL5A2, THBS2, SDC2
hsa04350:TGF-beta signaling pathway	BMP4, ACVR2A, TGFBR1, ID4, THBS2, TGFB2, ACVR1
hsa04672:Intestinal immune network for IgA production	IL6, ITGA4, HLA-DMB, HLA-DMA, TGFB2
hsa04710:Circadian rhythm	NPAS2, NR1D1, CSNK1D

KEGG Pathways identified by analysis with DAVID software. Lists of differentially expressed genes for Arsenic-transformed clones compared to control clones were created by conducting a t-test Volcano plot using GeneSpring software. The following criteria were used to generate the gene list: fold-change cut-off of 1.25; Benjamini-Hochberg corrected p-value of less than or equal to 0.05.

Supplementary Table 7 Pathways in Chromium-Transformed Clones	
KEGG Pathway	Genes
hsa00512:O-Glycan biosynthesis	GALNT3, ST3GAL1, GALNT2, GALNT1, C1GALT1C1, GALNT10, GALNT7, GALNTL4, GALNT6, GALNT5, GALNT13, GALNT14
hsa04350:TGF-beta signaling pathway	SMAD9, RBL2, E2F5, ROCK2, SMAD7, SMAD6, GDF6, TGFB2, BMP2, SMAD3, TGFB1, TGFB2, INHBB, ACVR2A, ID2, ID1, ZFYVE9, PPP2CB
hsa04510:Focal adhesion	CAV2, MYL5, PDGFB, PDGFA, PGF, ITGA11, ITGB4, ITGB3, LAMB3, RAC2, PAK3, ITGAV, SOS2, PDGFC, LAMB1, PIK3R3, AKT3, COL4A2, COL4A1, ROCK2, ITGA4, FLNC, COL5A2, COL5A1, FLNA, CCND1, ITGA5, LAMC2, LAMC1
hsa05410:Hypertrophic cardiomyopathy (HCM)	CACNA2D1, SLC8A1, PRKAG2, ITGA11, ITGB4, CACNG4, CACNB3, ITGB3, ITGA4, TPM1, TGFB1, TGFB2, ITGA5, ITGAV, PRKAA2, EMD
hsa04512:ECM-receptor interaction	COL4A2, COL4A1, HSPG2, ITGA11, ITGB4, ITGB3, ITGA4, COL5A2, COL5A1, LAMB3, ITGA5, ITGAV, LAMC2, SV2A, LAMC1, LAMB1
hsa05412:Arrhythmogenic right ventricular cardiomyopathy (ARVC)	CACNA2D1, SLC8A1, ITGA11, ITGB4, CACNG4, CACNB3, ITGA4, ITGB3, JUP, ITGA5, ITGAV, DSP, DSC2, EMD
hsa04612:Antigen processing and presentation	KIR3DS1, KIR2DL5A, RFX5, KIR2DS2, KIR2DS4, CTSS, RFXANK, HLA-DQA1, CD74, HLA-F, B2M, HSPA2, HLA-DPB1, KIR2DL3, KIR2DL2, KIR3DL1
hsa05414:Dilated cardiomyopathy	CACNA2D1, SLC8A1, ITGA11, ITGB4, CACNG4, CACNB3, ITGB3, ITGA4, TPM1, TGFB1, PRKX, TGFB2, ITGA5, ITGAV, EMD
hsa05200:Pathways in cancer	WNT5A, PDGFB, PDGFA, PGF, EGLN3, KITLG, MLH1, KIT, GLI3, MMP2, TGFB1, TGFB2, LAMB3, RAC2, ITGAV, SOS2, HHIP, LAMB1, PIK3R3, AKT3, COL4A2, AR, COL4A1, MSH3, IL8, TGFB2, SMAD3, RALGDS, RAD51, FZD6, JUP, SMO, CCND1, PTCH1, LAMC2, PTCH2, LAMC1
hsa04010:MAPK signaling pathway	IL1R1, PDGFB, PDGFA, DUSP10, CACNB3, PRKX, TGFB1, TGFB2, BDNF, MAP3K5, RASGRP3, HSPA2, RAC2, RASGRP1, SOS2, DUSP16, RRAS, RAPGEF2, AKT3, RASA1, MAP2K5, CACNA2D1, MAPKSP1, TGFB2, CACNG4, FLNC, FLNA, DUSP4, DUSP2, RPS6KA2, MAP3K14
hsa05210:Colorectal cancer	MSH3, TGFB2, SMAD3, MLH1, TGFB1, RALGDS, TGFB2, FZD6, CCND1, RAC2, SOS2, PIK3R3, AKT3
hsa00051:Fructose and mannose metabolism	MTMR1, SORD, ALDOC, HK2, TSTA3, MTMR6, PMM2
hsa05212:Pancreatic cancer	CCND1, RAC2, PGF, TGFB2, SMAD3, PIK3R3, RALGDS, AKT3, TGFB1, RAD51, TGFB2
hsa05332:Graft-versus-host disease	KIR3DS1, KIR2DL5A, HLA-DPB1, KIR2DL3, KIR2DL2, KIR3DL1, HLA-DQA1, HLA-F
hsa04810:Regulation of actin cytoskeleton	ENAH, MYL5, PDGFB, PDGFA, ROCK2, DIAPH2, DIAPH3, IQGAP3, ITGB4, ITGA11, BDKRB1, ITGB3, ITGA4, CHRM3, RAC2, TIAM2, ITGA5, PAK3, ITGAV, SOS2, CYFIP2, RRAS, PDGFC, PIK3R3

Supplementary Table 7 Pathways in Chromium-Transformed Clones	
KEGG Pathway	Genes
hsa04360:Axon guidance	ABLIM1, PLXNA3, ROCK2, L1CAM, SLIT3, EPHB2, EPHA4, RAC2, PAK3, SEMA7A, SEMA3F, SEMA3D, SEMA3C, SEMA3A, SEMA4D, RASA1
hsa01040:Biosynthesis of unsaturated fatty acids	SCD, ELOVL2, PTPLA, ACOT2, FADS2
hsa05211:Renal cell carcinoma	PDGFB, PAK3, PGF, GAB1, SOS2, EGLN3, PIK3R3, AKT3, TGFB1, TGFB2

KEGG Pathways identified by analysis with DAVID software. Lists of differentially expressed genes for Chromium-transformed clones compared to control clones were created by conducting a t-test Volcano plot using GeneSpring software. The following criteria were used to generate the gene list: fold-change cut-off of 1.50; Benjamini-Hochberg corrected p-value of less than or equal to 0.05.

Supplementary Table 8 Pathways in Nickel-Transformed Clones	
KEGG Pathway	Genes
hsa05200:Pathways in cancer	WNT5A, FGF5, PDGFA, PGF, ARNT2, NFKBIA, KITLG, KIT, TCF7L1, LAMB3, FGF1, FGF2, BMP4, AR, IL6, COL4A1, EPAS1, RXRB, TGFBR1, TGFBR2, CDK6, FZD3, FZD6, DAPK1, JUP, LAMA4, CBLB, WNT7B, PLCG2, LAMC2, LAMC1
hsa04512:ECM-receptor interaction	LAMA4, LAMB3, COL4A1, TNC, ITGA7, ITGA1, ITGB4, HSPG2, LAMC2, LAMC1, COL5A2, SDC2
hsa00250:Alanine, aspartate and glutamate metabolism	GLUL, ASS1, ALDH5A1, GFPT2, GAD1, DDO
hsa00650:Butanoate metabolism	ALDH5A1, EHHADH, HMGCS1, GAD1, BDH1, ALDH3A2
hsa03320:PPAR signaling pathway	CPT1C, CYP27A1, RXRB, EHHADH, SCD, FABP3, ACSL6, ACSL5

KEGG Pathways identified by analysis with DAVID software. Lists of differentially expressed genes for Nickel-transformed clones compared to control clones were created by conducting a t-test Volcano plot using GeneSpring software. The following criteria were used to generate the gene list: fold-change cut-off of 1.25; Benjamini-Hochberg corrected p-value of less than or equal to 0.05.

Supplementary Table 9 Pathways in Vanadium-Transformed Clones

KEGG Pathway	Genes
hsa04512:ECM-receptor interaction	TNC, HSPG2, ITGA2, ITGB5, ITGB3, ITGA4, COL5A2, LAMA1, ITGA9, LAMB3, ITGA6, ITGA5, LAMC2, LAMC1, COL1A1, LAMB1, FN1
hsa04510:Focal adhesion	TLN2, TNC, ITGB5, ITGB3, PDPK1, LAMB3, PDGFC, LAMB1, PIK3R3, PIK3R1, FN1, PRKCA, PARVG, FLT1, ITGA2, ITGA4, BIRC3, FLNB, COL5A2, ITGA9, LAMA1, ITGA6, ITGA5, RASGRF1, VEGFA, LAMC2, COL1A1, LAMC1, PARVB
hsa05200:Pathways in cancer	WNT5A, STAT5A, ARNT2, STAT5B, FGF11, KITLG, KIT, MMP2, GLI3, MMP1, LAMB3, TGFA, RARB, LAMB1, CCNA1, PIK3R3, PIK3R1, FN1, PRKCA, MSH3, EPAS1, RALBP1, TGFB2, ITGA2, FZD3, BIRC3, RALGDS, FZD7, STAT3, FZD6, SMO, LAMA1, ITGA6, VEGFA, PLCG2, LAMC2, LAMC1
hsa00512:O-Glycan biosynthesis	GALNT1, GALNT10, GALNT6, GALNT5, GALNT12, GCNT1, C1GALT1, GALNT14
hsa04360:Axon guidance	ABLIM1, NRP1, EFNA1, ABLIM3, NTN4, L1CAM, DPYSL2, SLIT3, EPHB2, SEMA7A, SEMA3F, SEMA3C, SEMA3B, SEMA3A, SEMA4D, RASA1, SRGAP1
hsa05414:Dilated cardiomyopathy	ACTC1, SLC8A1, ADCY7, ITGA2, ITGB5, CACNG4, ITGA4, ITGB3, PRKX, ITGA9, ADCY9, ITGA6, ITGA5
hsa04150:mTOR signaling pathway	PDPK1, CAB39L, TSC1, RPS6KA2, INS-IGF2, VEGFA, IGF2, PIK3R3, PIK3R1, DDIT4
hsa05222:Small cell lung cancer	LAMA1, LAMB3, ITGA6, ITGA2, LAMC2, RARB, LAMC1, PIK3R3, LAMB1, BIRC3, PIK3R1, FN1
hsa05410:Hypertrophic cardiomyopathy (HCM)	ITGA9, SLC8A1, ACTC1, ITGA6, ITGA5, PRKAB2, PRKAG2, CACNG4, ITGB5, ITGA2, ITGB3, ITGA4
hsa04012:ErbB signaling pathway	PRKCA, EREG, STAT5A, STAT5B, PLCG2, CAMK2D, TGFA, CAMK2B, AREG, PIK3R3, NRG1, PIK3R1
hsa04916:Melanogenesis	WNT5A, PRKCA, ADCY7, KITLG, FZD3, KIT, FZD7, PRKX, FZD6, PLCB4, ADCY9, CAMK2D, CAMK2B
hsa04020:Calcium signaling pathway	PRKCA, SLC8A1, ADCY7, PHKB, SLC25A6, PHKA1, PTGFR, PRKX, P2RX5, GNAL, PLCE1, ATP2B4, PLCB4, ADCY9, PDE1C, PLCG2, CAMK2D, CAMK2B, F2R
hsa04960:Aldosterone-regulated sodium reabsorption	PRKCA, PDPK1, INS-IGF2, NR3C2, IGF2, PIK3R3, INSR, PIK3R1
hsa00750:Vitamin B6 metabolism	AOX1, PHOSPHO2, PSAT1
hsa05412:Arrhythmogenic right ventricular cardiomyopathy (ARVC)	ITGA9, SLC8A1, ITGA6, ITGA5, CACNG4, ITGB5, ITGA2, DSC2, ITGB3, ITGA4

KEGG Pathways identified by analysis with DAVID software. Lists of differentially expressed genes for Vanadium-transformed clones compared to control clones were created by conducting a t-test Volcano plot using GeneSpring software. The following criteria were used to generate the gene list: fold-change cut-off of 1.50; Benjamini-Hochberg corrected p-value of less than or equal to 0.05.

Supplementary Table 10 Real-Time PCR Primer Sequences

Gene	Primer Sequence-Forward	Primer Sequence-Reverse
GAPDH	CACTCAGACCCCCACCACAC	GATACATGACAAGGTGCGGCT
LAM2C	GTGCCTGCCACCTTCAAGTT	TTTCCCAACATTTGCTTTGCT
BMI1	CCATCAGTTATTTGTGAGGGTGTTT	TTAATGACTATAAGCAAGACAAAGCAATAG
MYC	TTAAAAAAGCCACAGCATAACATCCT	TTTCCGCAACAAGTCCTCTTC
3EFNA5	CAAAATCCGCTCTCCATGCT	TCACACCCAGACGCACACA
IL6	GCATGGGCACCTCAGATTG	TGCCCAGTGGACAGGTTTC
PIM1	GGCATTGCTGACTGTGTATATAGGA	GGCTACCTGCTGCTCAAACA
TFAP2C	AACTTGAAAAGGGTAGGCACGAA	AAAATCTGTACTCAACGCACTGT
SATB2	TCTCCCCAAACACACCATCA	GCAGCTCCTCGTCCTTATATTCA