Erratum

Profile of differentially expressed genes mediated by the type III epidermal growth factor receptor mutation expressed in a small-cell lung cancer cell line

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Table 1 was published incorrectly, and is reproduced correctly below. The publishers wish to apologise for this error.

Table 1 List of genes whose expression changed more than 2-fold between EGFRvIII- and control cells sorted on the basis of their cellular function: Transcriptional regulation (A), cytoskeletal or adhesion (B), receptors and ligands (C), cell cycle (D), apoptosis (E), signal transduction (F), and cancer related (G). The first 2 columns show the fold change in the gene expression between the vector controls and the doxycycline-induced (24 h or 48 h) EGFRvIII-expressing cells. At the bottom of each panel is an explanation of the colour codes used. The third and fourth columns describe the genes expressed and their Genbank accession. The absolute call states whether the gene transcripts are present (P), marginally present (M) or absent (A) in the experimental file. Difference call is a call of the change either decreased (D), increased (I), no change in (NC), marginally decreased (MD), or marginally increased expression (MI) of a particular gene. Average difference change (Avg. Diff. Change) is a measure of the change of intensities in expression of a particular gene

		Transcriptional Regulation							
Fold Change GenBank		Description		Absolute Call		Diff. Call		Avg. Diff Change	
24h.	48h.			24h.	48h.	24h.	48h.	24h.	48h.
-16.0	-16.0	U22376	c-myc gene extracted from Human (c-myc) "gene," complete primary "cds,"	P	P	D	D	-157	-157
-12.7	-12.7	L37868	"Homo sapiens POU-domain transcription factor ""(N-Oct-3)," complete cds"	M	M	D	D	-123	-123
-6.4	-3.7	M93119	Human zinc-finger DNA-binding motifs (IA-1) "mRNA," complete cds	A	P	D	D	-138	-88
-4.1	-4.1	X82125	H.sapiens HOK-2 mRNA for zinc finger protein	A	A	D	D	-128	-128
-3.8		L23959	Homo sapiens E2F-related transcription factor (DP-1) "mRNA," complete cds	A	P	D	NC	-79	25
-2.9	-2.5	M88163	Human global transcription activator homologous sequence "mRNA," complete cds	A	P	D	D	-55	-50
-2.7	-2.7	X52611	Human mRNA for transcription factor AP-2	A	A	D	D	-127	-127
-2.6		M16937	Human homeo box c1 "protein," "mRNA," complete cds	A	P	D	NC	-55	-15
-2.4	-2.4	U80017	Human basic transcription factor 2 p44 (btf2p44) gene, partial cds,	A	A	D	D	-59	-59
-2.3	-2.3	Z11933	"H.sapiens mRNA for N-Oct ""3," ""N-Oct5a,"" and N-Oct 5b proteins"	A	A	D	D	-62	-62
-2.2	-2.2	D85425	"Human mRNA for transactivator ""HSM-1,"" complete cds"	P	P	D	D	-99	-99
-2.2	-2.2	X70683	H.sapiens mRNA for SOX-4 protein	P	P	D	D	-722	-722
-2.1		U07559	Human ISL-1 (Islet-1) "mRNA," complete cds	A	P	D	NC	-71	-51
	-2.0	HG3566	Zinc Finger Protein (Gb:M88359)	A	M	NC	D	-9	-153
	2.4	J32849	Human Hou "mRNA," complete cds	P	P	NC	I	43	73
	2.0	J05249	Human replication protein A 32-kDa subunit "mRNA," complete cds	P	P	I	I	218	316
2.0		AF005887	Homo sapiens ATF family member ATF6 (ATF6) "mRNA,"	A	P	NC	I	67	41
2.0	2.0	X56681	Human junD mRNA	P	P	I	I	1098	1098
2.0	2.0	M77698	Homo sapiens GLI-Krupple related protein (YY1) "mRNA," complete cds	P	P	I	I	234	229
2.1	2.1	U96915	Homo sapiens sin3 associated polypeptide p18 (SAP18) "mRNA," complete cds.	P	P	MI	MI	184	184
2.4		M31627	Human X box binding protein-1 (XBP-1) "mRNA," complete cds	P	P	I	I	331	207
3.1	2.6	U49857	Human transcriptional activator "mRNA," complete cds	A	P	NC	MI	74	55
4.8	4.6	U35048	Human TSC-22 protein "mRNA," complete cds	P	P	I	I	491	468
4.9	3.1	HG2724	Oncogene "Tis/Chop," Fusion Activated	P	P	I	I	1360	756
8.1	5.6	L19871	Human activating transcription factor 3 (ATF3) "mRNA," complete cds	P	P	NC	I	202	220

>5	>3	>2	<2	>-2	<-2	<-3	<-5
Fold Induction				Fold Repression			

B

Cytoskeletal or Adhesion									
Fold Change GenBank		Description		Absence Call		Diff. Call		Avg. Diff Change	
24h.	48h.			24h.	48h.	24h.	48h.	24h.	48h.
-16.3	-16.3	M98399	"Human antigen CD36 (clone 21) ""mRNA,"" complete cds"	P	P	D	D	-161	-161
-6.5	-12.9	AB000114	Human mRNA for "osteomodulin," complete cds	A	A	NC	D	-156	-571
-5.8	-5.8	L33930	"Homo sapiens CD24 signal transducer ""mRNA,""	P	P	D	D	-250	-250
-4.7	-4.7	X69819	H.sapiens ICAM-3 mRNA	A	A	D	D	-153	-153
-4.0		D14678	Human mRNA for kinesin-related "protein," partial cds	A	A	D	NC	-84	-36
-3.0	-3.0	Z24727	H.sapiens tropomyosin isoform "mRNA," complete CDS	P	P	D	D	-615	-615
-3.0	-2.6	U03057	Human actin bundling protein (HSN) "mRNA," complete cds	A	P	D	D	-348	-320
-2.9	-2.0	M82809	Human annexin IV (ANX4) "mRNA," complete cds	P	P	D	D	-416	-310
-2.8	-2.8	X05608	Human gene for neurofilament subunit NF-L	A	A	D	D	-73	-73
-2.7	-2.7	U46006	"Human smooth muscle LIM protein (h-SmLIM) ""mRNA,""	P	P	D	D	-140	-140
-2.5	-2.5	M19267	"Human tropomyosin ""mRNA,"" complete cds"	P	P	D	D	-568	-568
-2.4		M61916	Human laminin B1 chain "mRNA," complete cds	A	P	D	NC	-101	-64
-2.4		L33477	Human (clone 8B1) Br-cadherin "mRNA," complete cds	P	P	D	NC	-196	-121
-2.3	-2.3	X54304	Human mRNA for myosin regulatory light chain	A	A	D	D	-53	-53
-2.3	-2.3	X98801	H.sapiens mRNA for dynactin	A	A	D	D	-146	-146
-2.3	-2.2	M55210	Human laminin B2 chain (LAMB2) gene	A	P	D	D	-94	-83
-2.2	-2.2	Z32765	H.sapiens CD36 gene exon 15 /gb=Z32765 /ntype=DNA /annot=exon	P	P	D	D	-407	-407
-2.1	-2.3	HG2442	Tropomyosin, "Alpha," "Muscle," Alt. Splice "2," Skeletal Muscle (Fibroblast)	A	P	D	NC	-60	-64
	2.5	L19783	Human GPI-H "mRNA," complete cds	P	P	NC	I	57	120
2.2	2.4	L04733	Homo sapiens kinesin light chain "mRNA," complete cds	P	P	NC	I	126	129
2.3	2.3	X06956	"Human HALPHA44 gene for ""alpha-tubulin,"" exons 3-Jan"	P	P	I	I	135	135
2.5	2.5	J04029	"Homo sapiens keratin 10 type I intermediate filament (KRT10) ""mRNA"	P	P	I	I	640	640
3.1	3.5	U20582	Human actin-like peptide "mRNA," partial cds	P	P	NC	I	238	283
3.2	4.7	U21128	Human lumican "mRNA," complete cds	P	P	MI	I	56	74
3.8	2.8	D21255	Human mRNA for "OB-cadherin-2," complete cds	P	P	I	I	79	85

C

Receptors and Ligands									
Fold Change GenBank		Description		Absolute Call		Diff. Call		Avg. Diff Change	
24h.	48h.			24h.	48h.	24h.	48h.	24h.	48h.
-6.1	-6.1	X06182	Human c-kit proto-oncogene mRNA	P	P	D	D	-543	-543
-3.4		M21551	Human neuromedin B mRNA, complete cds.	A	A	D	NC	-67	-22
-2.8	-2.8	U19247	Human interferon-gamma receptor alpha chain gene	P	P	D	D	-126	-126
-2.2	-2.2	S77410	"type 1 angiotensin II receptor "[human," ""liver,"" ""mRNA,"" 2268 nt]"	A	A	D	D	-57	-57
-2.1	-2.1	X98248	H.sapiens mRNA for sortilin.	P	P	D	D	-237	-237
	-7.2	M60278	Human heparin-binding EGF-like growth factor "mRNA," complete cds	A	A	NC	D	-48	-123
	-2.0	D13641	Human mRNA for KIAA0016 "gene," complete cds	P	P	D	D	-256	-287
	2.2	L38487	Human estrogen receptor-related protein (hERRa1) "mRNA," 3' "end,"	P	P	NC	I	95	184
	2.1	L10373	Human (clone CCG-B7) mRNA sequence	A	P	NC	I	18	55
3.1	2.8	HG3415	Poliovirus Receptor	P	P	MI	MI	99	86
3.9	3.9	J05200	"Human ryanodine receptor ""mRNA,"" complete cds"	P	P	MI	MI	66	66

D

Cell Cycle									
Fold Change GenBank		Description		Absolute Call		Diff. Call		Avg. Diff Change	
24h.	48h.			24h.	48h.	24h.	48h.	24h.	48h.
-3.6	-3.6	U90546	"Human butyrophilin (BTF4) ""mRNA,"" complete cds"	A	A	D	D	-115	-115
-2.3	-2.3	U90552	"Human butyrophilin (BTF5) ""mRNA,"" complete cds"	P	P	D	D	-276	-276
-2.1	-2.1	X51688	Human mRNA for cyclin A	A	A	D	D	-125	-125
-2.1		U58087	Human Hs-cul-1 "mRNA," complete cds	P	P	D	D	-387	-273
2.1	3.3	L16991	Human thymidylate kinase (CDC8) "mRNA," complete cds	P	P	NC	MI	100	110
10.6	10.6	M72885	G0S2 gene extracted from Human GOS2 "gene," 5' flank and cds	P	P	MI	MI	101	101

E

Apoptosis									
Fold Change GenBank		Description		Absolute Call		Diff. Call		Avg. Diff Change	
24h.	48h.			24h.	48h.	24h.	48h.	24h.	48h.
-4.2	-3.8	D82345	Human mRNA for NB thymosin "beta," complete cds	P	P	D	D	-394	-359
-2.6	-2.6	S54005	"thymosin beta-10 ""[human,"" metastatic melanoma cell ""line,"" mRNA"	P	P	D	D	-1411	-1411
	2.3	L08246	Human myeloid cell differentiation protein (MCL1) mRNA	A	P	NC	I	50	100

F

Signal Transduction									
Fold Change GenBank		Description	Absolute Call		Diff.Call	Avg. Diff Change		24h.	48h.
24h.	48h.		24h.	48h.		24h.	48h.		
-3.5	-2.8	M31158 Human cAMP-dependent protein kinase subunit RII-beta "mRNA,"	A	P	D	D	-80	-72	
-2.3	-2.3	X60673 Human AK3 mRNA for adenylylate kinase 3.	A	A	D	D	-174	-174	
-2.2		M15205 Human thymidine kinase "gene," complete "cds,"	A	P	D	NC	-145	-36	
-2.1		U09564 Human serine kinase "mRNA," complete cds	P	P	D	MD	-351	-314	
-2.0	-2.0	X89416 H.sapiens mRNA for protein phosphatase 5	A	A	D	D	-216	-216	
	-2.0	M86699 Human kinase (TTK) "mRNA," complete cds	P	P	NC	MD	-113	-126	
2.1	2.4	S74221 IK=IK factor "[human," leukemic cells "K562," chronic myeloid leukemia	P	P	NC	I	80	99	
2.3		U07563 Human proto-oncogene tyrosine-protein kinase (ABL) gene,	P	P	NC	I	144	122	
2.3	2.3	X68277 H.sapiens CL 100 mRNA for protein tyrosine phosphatase	P	P	I	NC	55	55	
6.4	5.1	U27655 Human RGP3 "mRNA," complete cds	A	P	NC	I	142	108	

G

Cancer Related									
Fold Change GenBank		Description	Absolute Call		Diff.Call	Avg. Diff Change		24h.	48h.
24h.	48h.		24h.	48h.		24h.	48h.		
-4.5	-2.3	L13210 Human Mac-2 binding protein "mRNA," complete cds	A	P	D	NC	-356	-268	
-3.7	-2.2	M11717 Human heat shock protein (hsp 70) gene, complete cds.	A	P	D	NC	-82	-60	
-3.2	-2.4	U17714 Human putative tumor suppressor (SNC6) "mRNA," complete cds	A	A	D	D	-56	-46	
-2.0	-2.5	U10686 Human MAGE-11 antigen (MAGE11) "gene," complete cds	A	P	D	NC	-99	-117	
	-2.3	L02785 Homo sapiens colon mucosa-associated (DRA) "mRNA, complete cds	A	A	NC	D	-11	-64	
2.5	2.1	M80244 Human E16 "mRNA," complete cds	P	P	I	I	802	570	
3.5	3.0	M21904 Human 4F2 glycosylated heavy chain (4F2HC) antigen gene	P	P	MI	I	1009	809	
4.2	4.2	X75308 H.sapiens mRNA for collagenase 3	P	P	I	I	130	130	

>5	>3	>2	<2	>-2	<-2	<-3	<-5
Fold Induction				Fold Repression			