

Supporting Information

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A mixture of potent polyphenolic anticarcinogens: Microarray analysis of their efficacy in MCF-7 and MCF-10A cell lines

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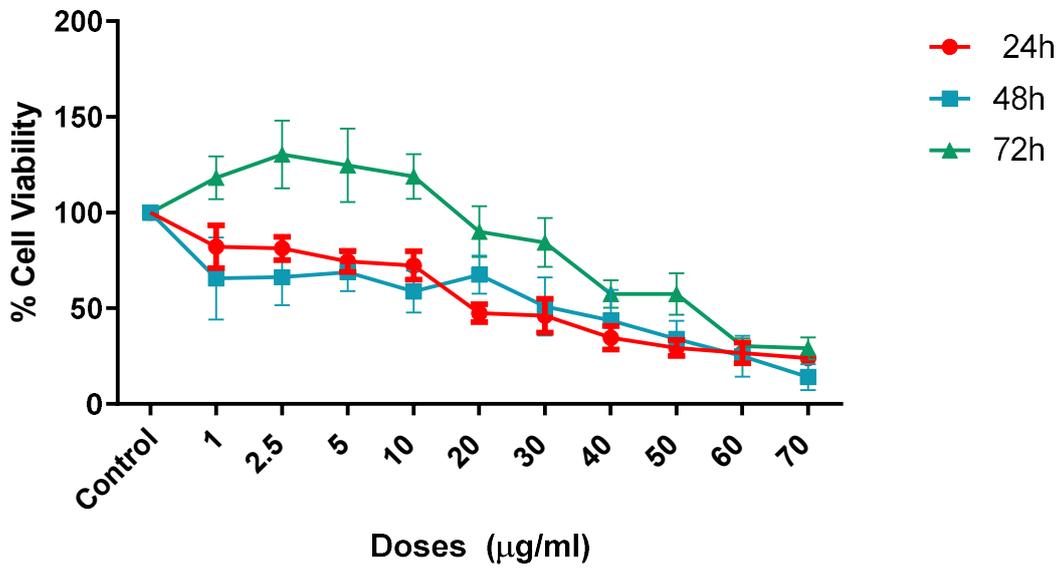
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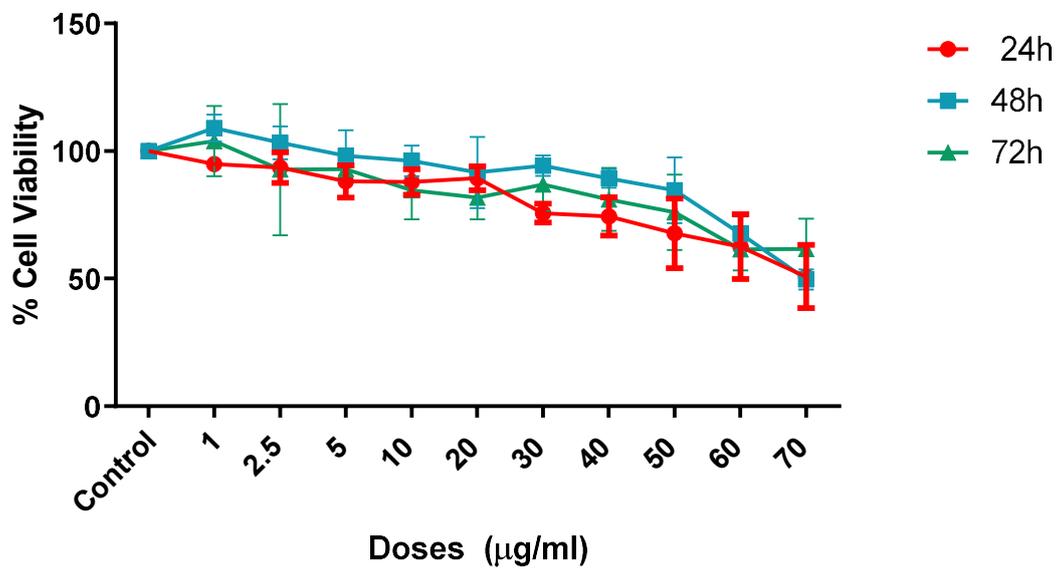
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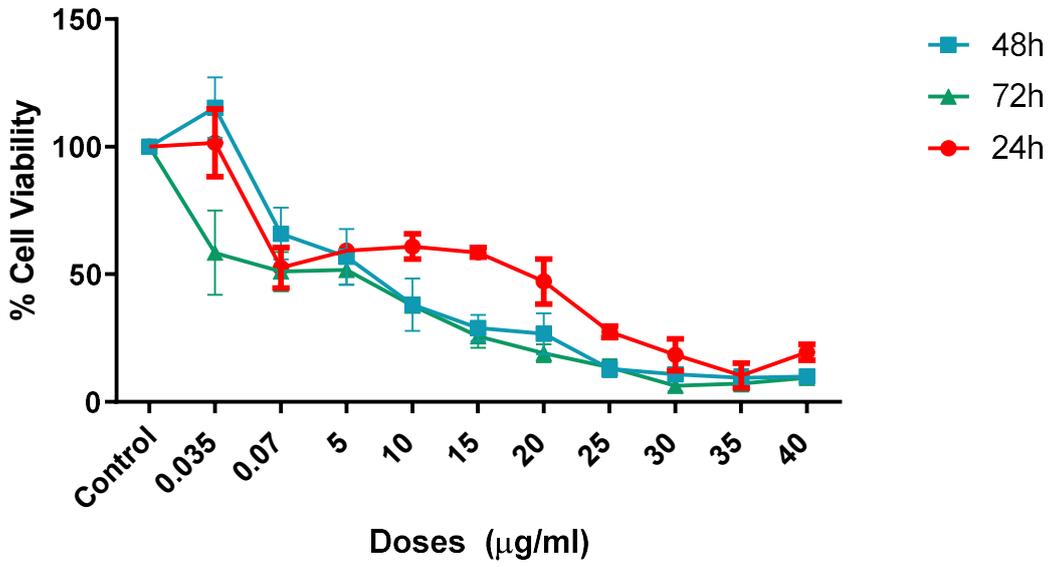
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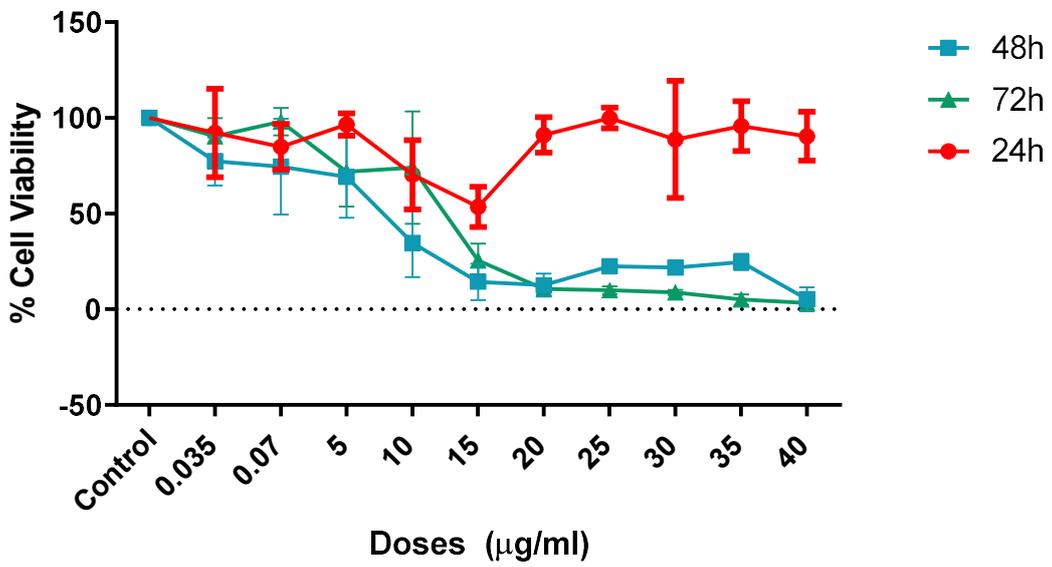
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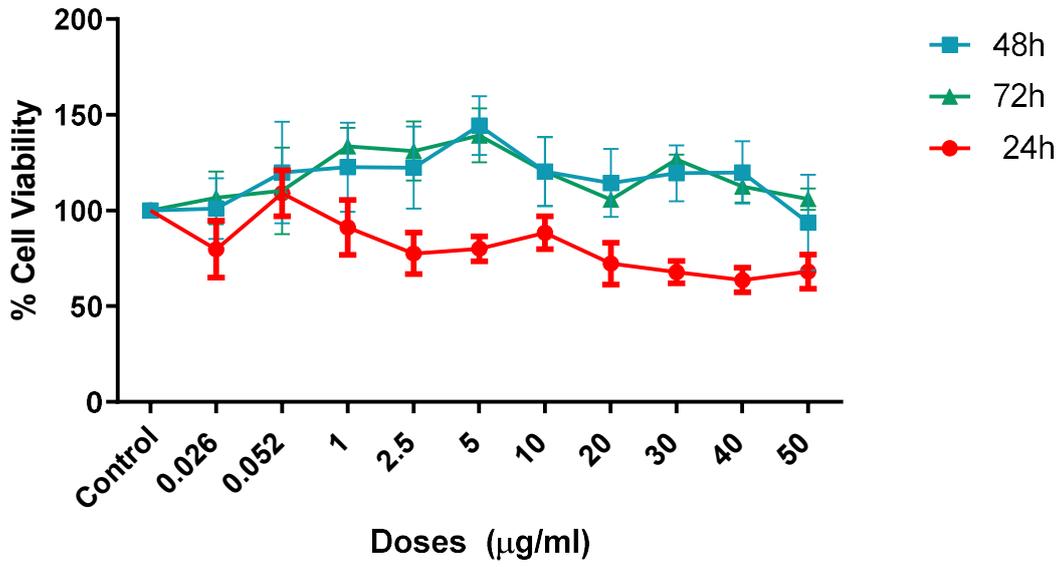
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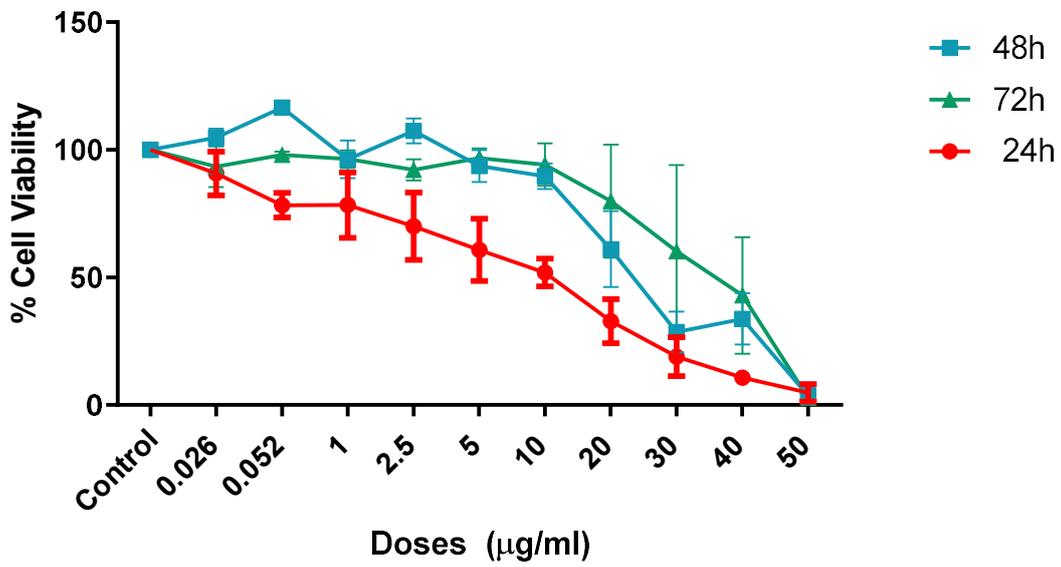
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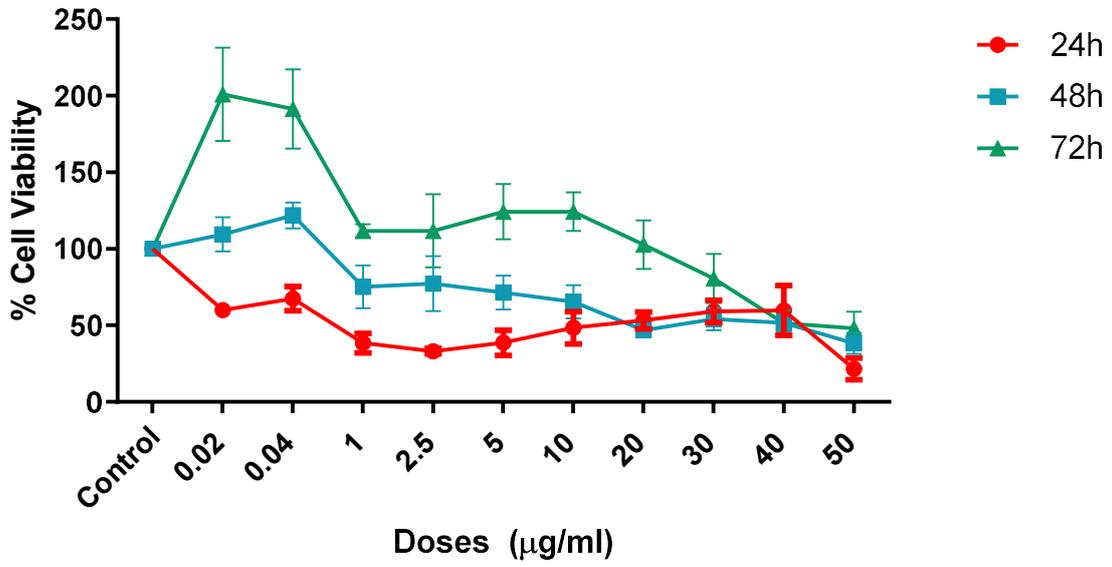
Ferulic Acid MCF-7



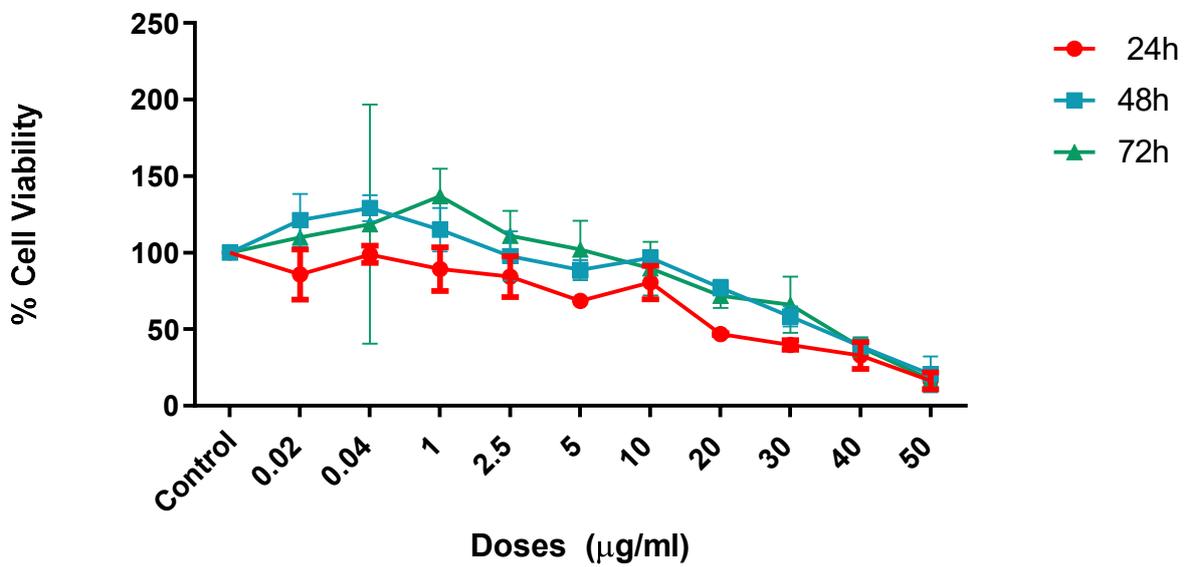
Ferulic Acid MCF-10A



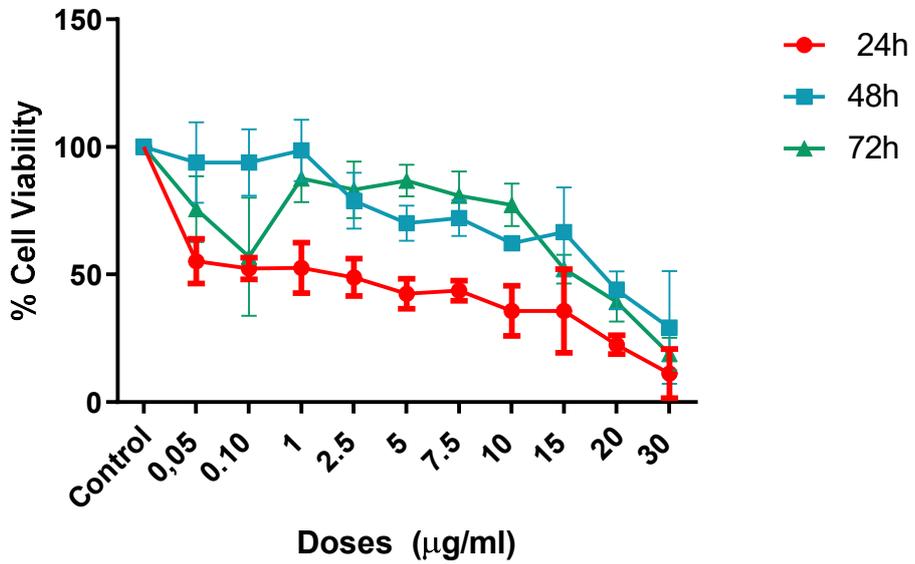
Kaempferol MCF-7



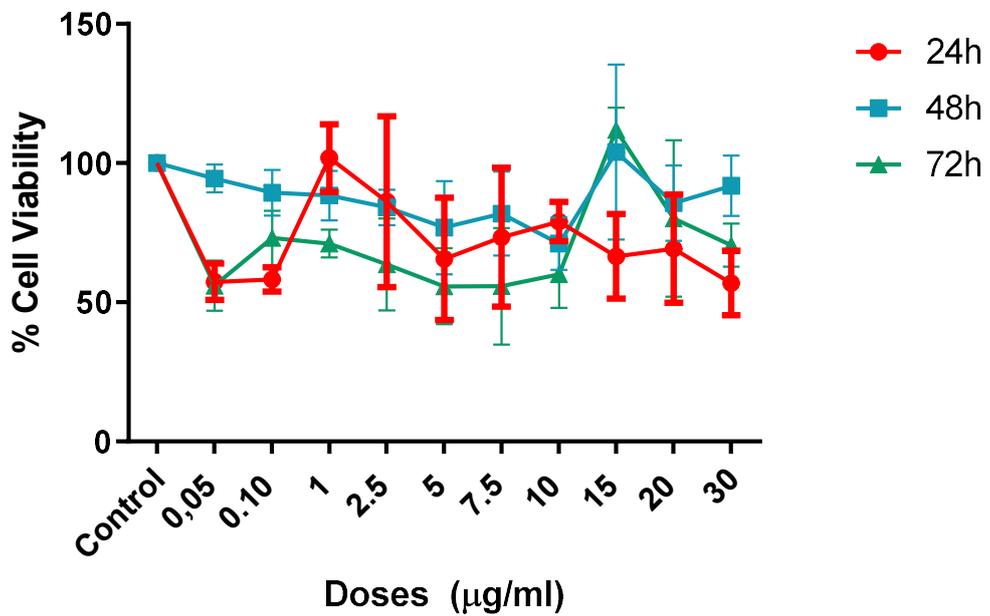
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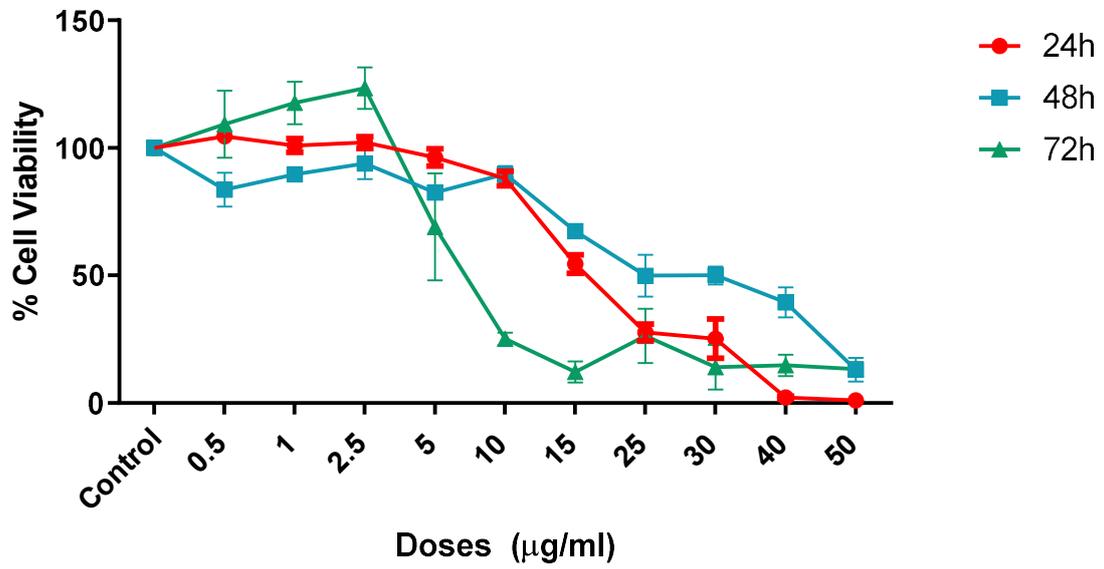
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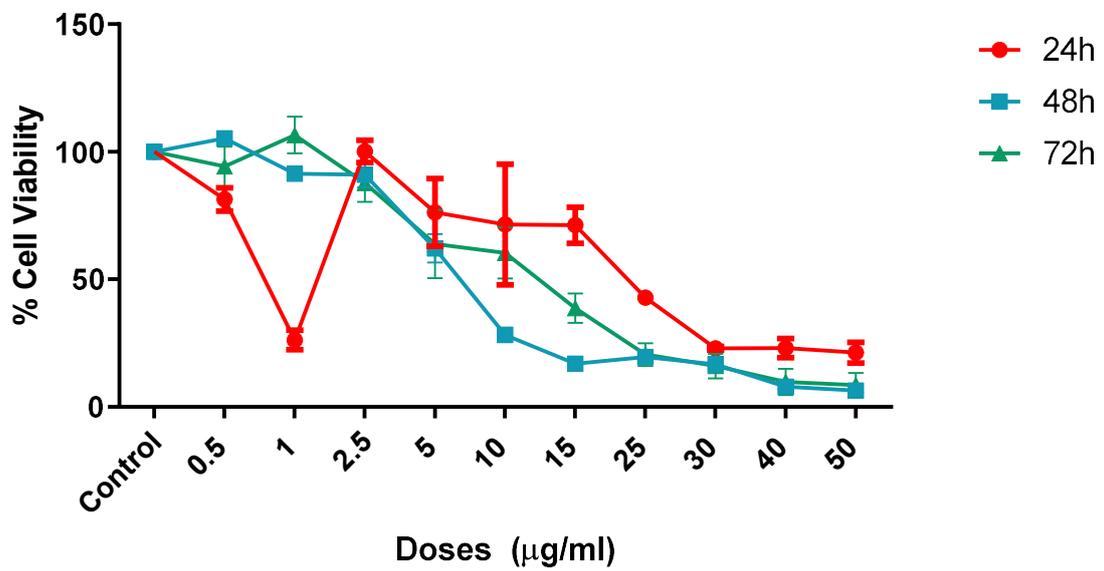
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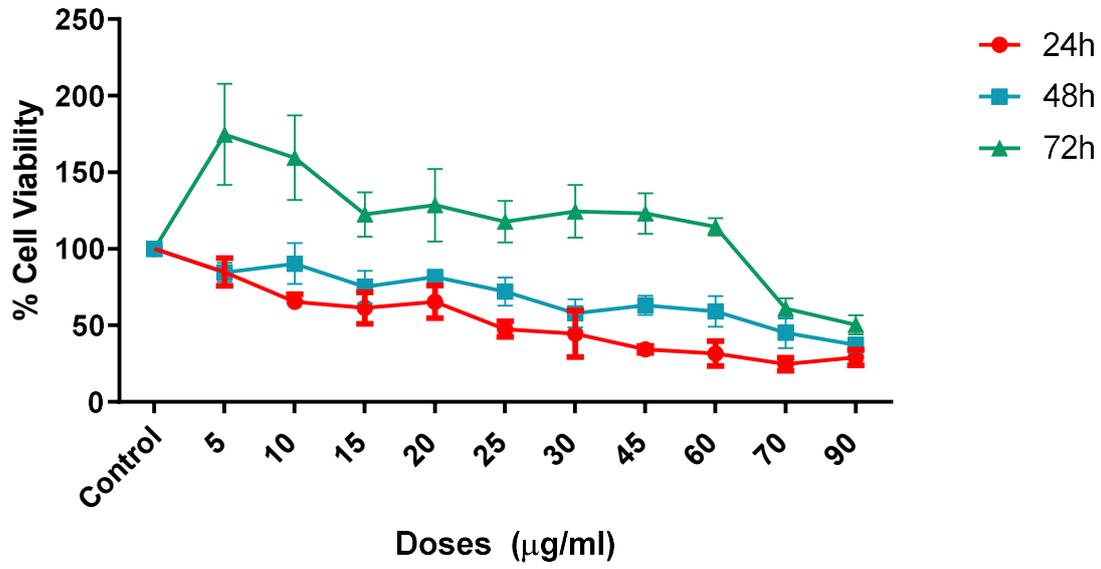
Pinostrobin MCF-7



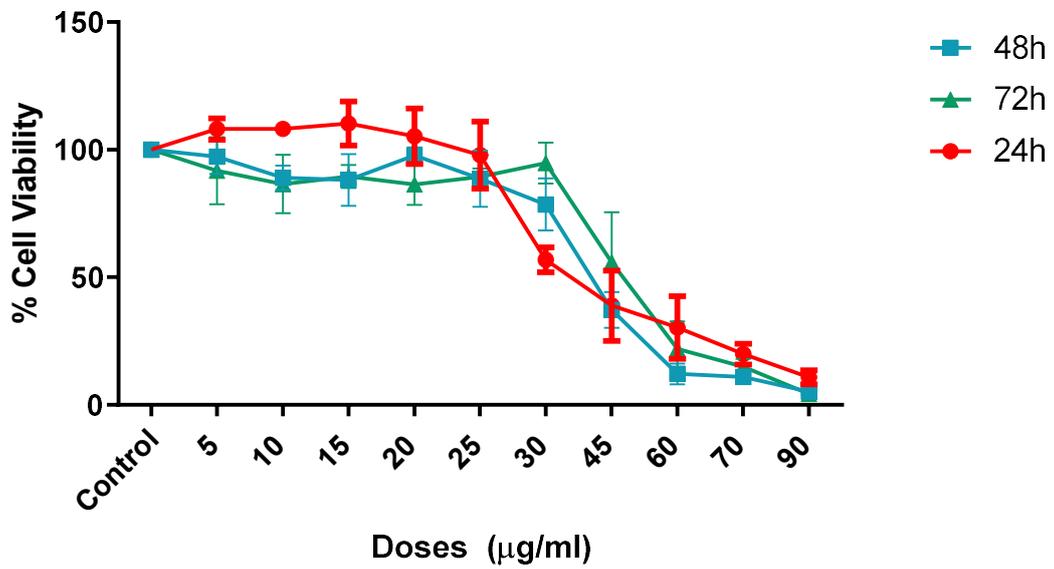
Pinostrobin MCF-10A



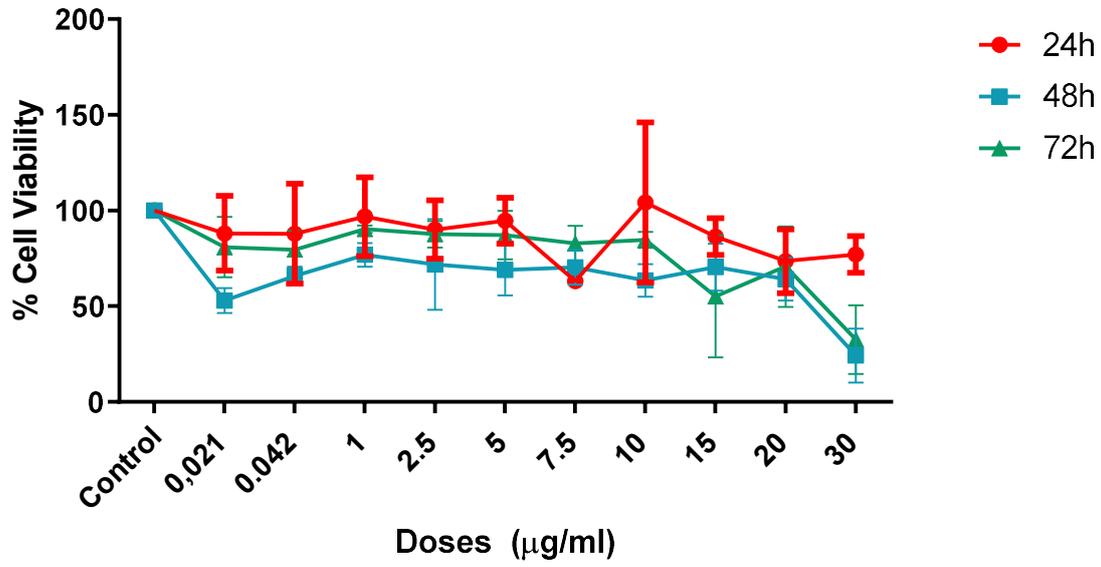
Rutin Hydrate MCF-7



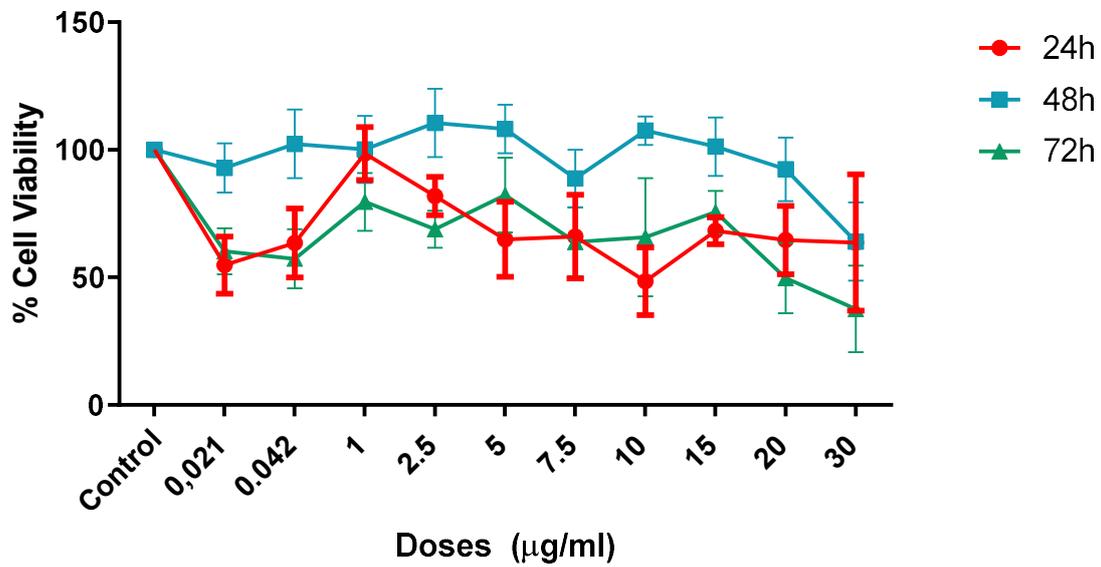
Rutin Hydrate MCF-10A



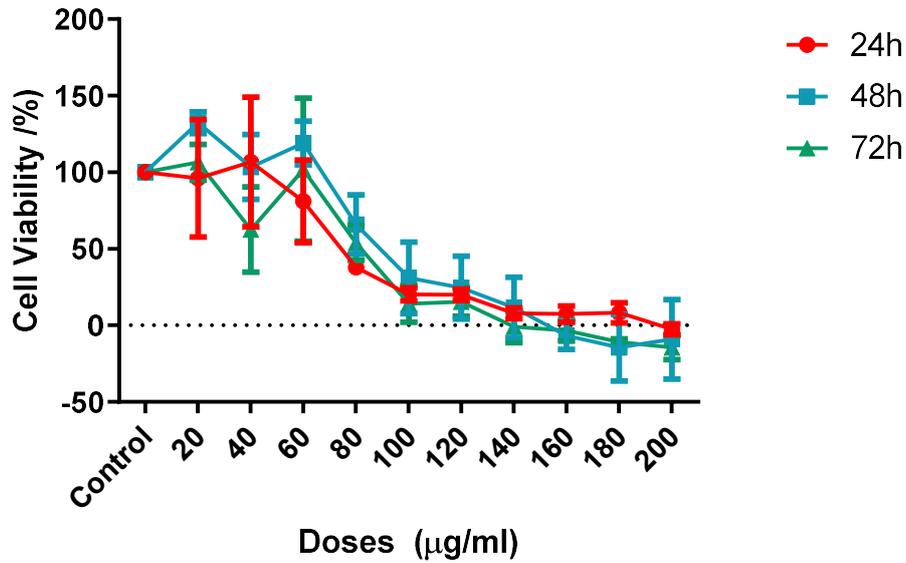
p-Coumaric Acid MCF-7



p-Coumaric Acid MCF-10A



CAPE- MCF-7



Supplementary Table 1. List of genes with statistically significant changes when comparing the 35% dose with the control in MCF-7 cells.

Gene Name	Gene Symbol	Entrez Gene ID	p (Corr)	FC (abs)	Regulation
Proline-rich nuclear receptor coactivator 1	<i>PNRC1</i>	10957	0,000003	17,908829	up
NYN domain and retroviral integrase containing	<i>NYNRIN</i>	57523	0,000005	11,056505	up
Zinc finger protein 675	<i>ZNF675</i>	171392	0,000005	22,66159	up
Imprinted in Prader-Willi syndrome (non-protein coding)	<i>IPW</i>	3653	0,000006	8,94006	up
Isoleucyl-tRNA synthetase	<i>IARS</i>	3376	0,000008	12,486335	up
			0,000023	16,510336	up
			0,000065	10,501066	up
N-acetylglucosamine-1-phosphate transferase, alpha and beta subunits	<i>GNPTAB</i>	79158	0,000107	15,029767	up
			0,000120	23,072645	up

MMS22-like, DNA repair protein	<i>MMS22L</i>	253714	0,000166	13,323056	up
Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 1	<i>CITED1</i>	4435	0,000230	6,773023	up
Transmembrane protein 66	<i>TMEM66</i>	51669	0,000322	22,714878	up
			0,000340	35,46072	up
Chromosome 14 open reading frame 142	<i>CI4orf142</i>	84520	0,000415	15,523503	up
MTERF domain containing 2	<i>MTERFD2</i>	130916	0,000452	29,788305	up
Metallothionein 1E	<i>MT1E</i>	4493	0,000509	6,8426523	up
			0,000989	4,9750056	up
Archaelysin family metallopeptidase 2 pseudogene 1	<i>AMZ2P1</i>	201283	0,001098	21,836473	up
UDP-glucose pyrophosphorylase 2	<i>UGP2</i>	7360	0,001099	7,171947	up
Cytochrome P450, family 1, subfamily A, polypeptide 1	<i>CYP1A1</i>	1543	0,001111	19,23447	up
			0,001264	12,421283	up
Leucine rich adaptor protein 1-like	<i>LURAP1L</i>	286343	0,001265	14,600011	up
			0,001367	7,232452	up
Cytochrome P450, family 2, subfamily B, polypeptide 6	<i>CYP2B6</i>	1555	0,001397	4,403425	down
Cysteine-rich PDZ-binding protein	<i>CRIP1</i>	9419	0,001649	14,7171335	up
N-ethylmaleimide-sensitive factor attachment protein, gamma	<i>NAPG</i>	8774	0,001772	2,638633	up
Myotubularin related protein 14	<i>MTMR14</i>	64419	0,001787	6,0393457	up
Somatostatin receptor 2	<i>SSTR2</i>	6752	0,001900	4,373317	up
			0,002137	3,5857832	up
Cytochrome P450, family 1, subfamily B, polypeptide 1	<i>CYP1B1</i>	1545	0,003273	4,2412977	up
			0,003485	11,074855	up
Family with sequence similarity 134, member A	<i>FAM134A</i>	79137	0,003614	6,834023	up
Kelch repeat and BTB (POZ) domain containing 13	<i>KBTBD13</i>	390594	0,003671	21,809916	up

			0,003737	6,9222975	up
Tetratricopeptide repeatdomain 1	<i>TTC1</i>	7265	0,003992	4,6629868	up
Transportin 3	<i>TNPO3</i>	23534	0,004307	3,0394566	up
Coiled-coil domain containing 124	<i>CCDC124</i>	115098	0,004343	5,6743946	up
			0,004627	42,73564	up
Trefoil factor 3 (intestinal)	<i>TFF3</i>	7033	0,005395	3,0336535	down
ZW10 interacting kinetochore protein	<i>ZWINT</i>	11130	0,005533	2,6666467	up
Integrator complex subunit 8	<i>INTS8</i>	55656	0,005759	9,505526	up
Serpin peptidase inhibitor, clade A (alpha-1 antitrypsin), member 3	<i>SERPINA3</i>	12	0,006197	4,2856455	up
Carbonic anhydrase VB pseudogene 1	<i>CA5BP1</i>	340591	0,006346	3,4112985	up
			0,007273	2,7787437	up
Chemokine (C-X-C motif) ligand 16	<i>CXCL16</i>	58191	0,007731	4,5802794	up
Ribosomal protein S10	<i>RPS10</i>	6204	0,007967	32,791775	up
SCY1-like 2 (S, cerevisiae)	<i>SCYL2</i>	55681	0,008486	3,8881745	up
Sulfatase 1	<i>SULF1</i>	23213	0,008586	3,9129605	down
Trefoil factor 3 (intestinal)	<i>TFF3</i>	7033	0,008756	2,7257872	down
Rhabdoid tumor deletion region gene 1	<i>RTDR1</i>	27156	0,008948	2,6307864	down
Clathrin heavy chain linker domain containing 1	<i>CLHC1</i>	130162	0,009590	3,6817775	up
ribosomal protein S12	<i>RPS12</i>	6206	0,011305	45,16058	up
Ankyrin repeat domain 2 (stretch responsive muscle)	<i>ANKRD2</i>	26287	0,011646	2,6789188	up
Zinc finger protein 248	<i>ZNF248</i>	57209	0,012658	8,417707	up
Complement component 3	<i>C3</i>	718	0,012782	1,9663986	down
Cullin 3	<i>CUL3</i>	8452	0,013304	3,4092147	up
Endogenous Bornavirus-like nucleoprotein 2	<i>EBLN2</i>	55096	0,013333	3,4679515	up
Uncharacterized LOC643977	<i>FLJ32255</i>	643977	0,014367	2,7962623	up
Acyl-CoA oxidase 2, branched chain	<i>ACOX2</i>	8309	0,015088	2,2729485	down

IMP3, U3 small nucleolar ribonucleoprotein	<i>IMP3</i>	55272	0,016718	2,051385	up
			0,016839	3,696092	up
Cyclin I family, member 2	<i>CCNI2</i>	645121	0,018240	6,611106	up
WD repeat domain 26	<i>WDR26</i>	80232	0,018496	4,052332	up
Pre-B lymphocyte 3	<i>VPREB3</i>	29802	0,018533	1,8708863	up
Adenylate cyclase 9	<i>ADCY9</i>	115	0,018657	6,711167	up
	<i>XLOC_014512</i>		0,019094	2,981688	up
MAP6 domain containing 1	<i>MAP6D1</i>	79929	0,020687	1,8722217	up
Pyruvate dehydrogenase kinase, isozyme 1	<i>PDK1</i>	5163	0,021161	2,8775384	up
Cytochrome P450, family 1, subfamily B, polypeptide 1	<i>CYP1B1</i>	1545	0,021720	4,2902226	up
Colorectal cancer associated 2	<i>COLCA2</i>	120376	0,021781	2,1435742	down
Long intergenic non-protein coding RNA 1116	<i>LINC01116</i>	375295	0,022061	2,0789177	down
Leucine rich repeat containing 36	<i>LRRC36</i>	55282	0,023089	7,164098	down
F-box protein 32	<i>FBXO32</i>	114907	0,023384	2,5691087	down
Lysine (K)-specific demethylase 5C	<i>KDM5C</i>	8242	0,024658	2,3486197	up
Potassiumvoltage-gatedchannel, Shaw-relatedsubfamily, member1	<i>KCNC1</i>	3746	0,024740	4,9485135	up
Serine peptidase inhibitor, Kazal type 4	<i>SPINK4</i>	27290	0,026555	2,982437	down
			0,028148	2,7206311	up
KIT ligand	<i>KITLG</i>	4254	0,028806	2,0422642	down
Discs, large (Drosophila) homolog-associated protein 3	<i>DLGAP3</i>	58512	0,029656	2,0110846	up
	<i>XLOC_014512</i>		0,030186	4,123672	up
Mitochondrial ribosomal protein S25	<i>MRPS25</i>	64432	0,031092	5,055532	up
Tetratricopeptide repeat domain 37	<i>TTC37</i>	9652	0,031218	4,350489	up

Casein kinase 1, gamma 2	<i>CSNK1G2</i>	1455	0,031239	2,504241	up
			0,031647	3,572857	up
Major histocompatibility complex, class I, L (pseudogene)	<i>HLA-L</i>	3139	0,035320	2,8418505	up
Serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 3	<i>SERPINA3</i>	12	0,035388	4,1877933	up
Uncharacterized LOC728392	<i>LOC728392</i>	728392	0,037126	3,3941681	down
MAP/microtubule affinity-regulating kinase 2	<i>MARK2</i>	2011	0,039647	2,2165592	up
Deoxyribose-phosphate aldolase (putative)	<i>DERA</i>	51071	0,039694	1,8755229	down
Chromosome 6 open reading frame 89	<i>C6orf89</i>	221477	0,040601	6,203063	up
SNAI3 antisense RNA 1	<i>SNAI3-AS1</i>	197187	0,042742	3,1898592	up
			0,043560	10,020256	up
Squalene epoxidase	<i>SQLE</i>	6713	0,046406	2,7249331	up
			0,049729	8,816775	up

Supplementary Table 2. List of genes with statistically significant changes when comparing the 75% dose with the control in MCF-7 cells.

Gene name	Gene Symbol	Entrez Gene ID	p (Corr)	FC (abs)	Regulation
Cytochrome P450, family 1, subfamily A, polypeptide 2	<i>CYP1A2</i>	1544	0,000002	23,39714	up
Proline-rich nuclear receptor coactivator 1	<i>PNRC1</i>	10957	0,000006	16,7232	up
Cytochrome P450, family 1, subfamily A, polypeptide 1	<i>CYP1A1</i>	1543	0,000006	98,75266	up
EF-hand calcium binding domain 1	<i>EFCA1</i>	79645	0,000010	9,03865	down
Isoleucyl-tRNA synthetase	<i>IARS</i>	3376	0,000012	14,52384	up
			0,000020	4,245592	up
Kelch repeat and BTB (POZ) domain containing 13	<i>KBTD13</i>	390594	0,000021	14,80061	up
Anillin, actin binding protein	<i>ANLN</i>	54443	0,000029	5,118473	down
			0,000045	4,148964	up

Potassium voltage-gated channel, subfamily H (eag-related), member 6	<i>KCNH6</i>	81033	0,000056	8,127316	down
Discs, large (Drosophila) homolog-associated protein 5	<i>DLGAP5</i>	9787	0,000075	4,031471	down
Sideroflexin 5	<i>SFXN5</i>	94097	0,000079	3,491343	down
kinesin family member 20A	<i>KIF20A</i>	10112	0,000088	7,348681	down
Potassium voltage-gated channel, Shaw-related subfamily, member 1	<i>KCNC1</i>	3746	0,000092	6,993766	up
			0,000094	4,376574	up
Pituitary tumor-transforming 2	<i>PTTG2</i>	10744	0,000104	3,391857	down
RAD52 motif containing 1	<i>RDM1</i>	201299	0,000106	2,987882	down
Cyclin B2	<i>CCNB2</i>	9133	0,000107	4,041915	down
Cell division cycle associated 3	<i>CDC43</i>	83461	0,000147	4,482108	down
Serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 3	<i>SERPINA3</i>	12	0,000156	8,817719	up
ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 4	<i>ST6GALNAC4</i>	27090	0,000158	3,589457	up
Uncharacterized LOC100996457	<i>LOC100996457</i>	1,01E+08	0,000161	3,750995	up
			0,000187	4,778109	up
Aquaporin 3 (Gill blood group)	<i>AQP3</i>	360	0,000194	7,785474	up
Marker of proliferation Ki-67	<i>MKI67</i>	4288	0,000207	3,392095	down
Non-SMC condensin II complex, subunit D3	<i>NCAPD3</i>	23310	0,000210	3,01805	down
Proline/serine-rich coiled-coil 1	<i>PSRC1</i>	84722	0,000218	2,626996	down
Trefoil factor 3 (intestinal)	<i>TFF3</i>	7033	0,000221	5,539224	down
			0,000229	4,012462	up
Imprinted in Prader-Willi syndrome (non-protein coding)	<i>IPW</i>	3653	0,000232	6,768939	up
Centromere protein A	<i>CENPA</i>	1058	0,000236	4,591518	down
cell division cycle 45	<i>CDC45</i>	8318	0,000239	3,505576	down
Glycine Nacyltransferase-like 3	<i>GLYATL3</i>	389396	0,000240	21,9733	down
			0,000241	3,724165	down
N-acetylglucosamine-1-phosphate transferase, alpha and beta subunits	<i>GNPTAB</i>	79158	0,000247	13,75831	up

Kinesin family member 15	<i>KIF15</i>	56992	0,000266	4,15647	down
Kinesin family member 14	<i>KIF14</i>	9928	0,000276	4,443109	down
Docking protein 7	<i>DOK7</i>	285489	0,000381	4,44688	down
Fanconi anemia, complementation group I	<i>FANCI</i>	55215	0,000381	3,177208	down
Trefoil factor 3 (intestinal)	<i>TFF3</i>	7033	0,000383	6,357558	down
			0,000386	7,564529	up
Holliday junction recognition protein	<i>HJURP</i>	55355	0,000397	4,155837	down
Inhibin, beta E	<i>INHBE</i>	83729	0,000418	3,472705	down
NDC80 kinetochore complex component	<i>NDC80</i>	10403	0,000426	4,310445	down
SPC24, NDC80 kinetochore complex component	<i>SPC24</i>	147841	0,000429	10,64	down
			0,000435	3,516929	up
Leucine rich repeat neuronal 3	<i>LRRN3</i>	54674	0,000438	10,04444	down
			0,000441	4,73593	up
NYN domain and retroviral integrase containing	<i>NYNRIN</i>	57523	0,000467	10,18905	up
Myosin, light chain 5, regulatory	<i>MYL5</i>	4636	0,000488	3,436145	up
FOXN3 antisense RNA 1	<i>FOXN3-AS1</i>	400236	0,000507	2,797105	up
S100 calcium binding protein P	<i>S100P</i>	6286	0,000534	5,858852	up
Cell division cycle associated 2	<i>CDCA2</i>	157313	0,000549	3,386201	down
Kinesin family member 23	<i>KIF23</i>	9493	0,000560	3,829111	down
Metallothionein 1E	<i>MT1E</i>	4493	0,000560	8,69085	up
Metallothionein 1F	<i>MT1F</i>	4494	0,000566	5,562584	up
Family with sequence similarity 72, member D	<i>FAM72D</i>	728833	0,000587	3,305115	down
Serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 3	<i>SERPINA3</i>	12	0,000598	9,490193	up
			0,000606	7,533235	up
Pituitary tumor-transforming 1	<i>PTTG1</i>	9232	0,000644	3,201784	down
Rho guanine nucleotide exchange factor (GEF) 37	<i>ARHGEF37</i>	389337	0,000689	2,954031	up
RAD54-like (S, cerevisiae)	<i>RAD54L</i>	8438	0,000699	2,49455	down
ArfGAP with dual PH domains 2	<i>ADAP2</i>	55803	0,000716	2,306349	up
Cyclin-dependent kinas inhibitor 3	<i>CDKN3</i>	1033	0,000810	3,735179	down

Cancer susceptibility candidate 5	<i>CASC5</i>	57082	0,000815	3,404977	down
Proline rich 11	<i>PRR11</i>	55771	0,000849	3,187086	down
Serine/threonine kinase-like domain containing 1	<i>STKLD1</i>	169436	0,000857	7,838335	up
BUB1 mitotic checkpoint serine/threonine kinase	<i>BUB1</i>	699	0,000861	3,245638	down
Pre-B lymphocyte 3	<i>VPREB3</i>	29802	0,000868	5,429148	up
Golgi transport 1A	<i>GOLT1A</i>	127845	0,000930	3,02084	up
Kinesin family member 23	<i>KIF23</i>	9493	0,000938	3,845781	down
Centromere protein E, 312kDa	<i>CENPE</i>	1062	0,000956	4,419495	down
ATPase family, AAA domain containing 2	<i>ATAD2</i>	29028	0,000982	3,190253	down
Transmembrane protein 66	<i>TMEM66</i>	51669	0,001048	24,6674	up
			0,001065	2,701106	up
POC1 centriolar protein A	<i>POCIA</i>	25886	0,001070	2,689221	down
Fanconi anemia, complementation group D2	<i>FANCD2</i>	2177	0,001086	3,491924	down
NIMA-related kinase 2	<i>NEK2</i>	4751	0,001117	2,607628	down
Cyclin B1	<i>CCNB1</i>	891	0,001139	3,16995	down
High mobility group box 2	<i>HMGB2</i>	3148	0,001263	3,455591	down
Baculoviral IAP repeat containing 5	<i>BIRC5</i>	332	0,001300	3,230636	down
Leucine rich repeat containing 36	<i>LRRC36</i>	55282	0,001315	9,06932	down
Shugoshin-like 2 (S, pombe)	<i>SGOL2</i>	151246	0,001315	3,078577	down
Chromosome 10 open reading frame 54	<i>C10orf54</i>	64115	0,001331	2,326926	up
Non-SMC condensin I complex, subunit D2	<i>NCAPD2</i>	9918	0,001358	3,312281	down
PHD finger protein 19	<i>PHF19</i>	26147	0,001365	3,555793	down
Protein kinase, membrane associated tyrosine/threonine 1	<i>PKMYT1</i>	9088	0,001367	2,667273	down
			0,001405	3,713757	down
Diaphanous-related formin 3	<i>DIAPH3</i>	81624	0,001445	4,293336	down
Diaphanous-related formin 3	<i>DIAPH3</i>	81624	0,001470	3,909096	down
DEP domain containing 1	<i>DEPDC1</i>	55635	0,001489	2,514421	down
FUS RNA binding protein	<i>FUS</i>	2521	0,001489	2,157147	down
Extra spindle pole bodies homolog 1 (S, cerevisiae)	<i>ESPL1</i>	9700	0,001512	4,2951	down

Beaded filament structural protein 2, phakinin	<i>BFSP2</i>	8419	0,001528	3,119614	down
Centrosomal protein 152kDa	<i>CEP152</i>	22995	0,001552	3,13821	down
Neuralized E3 ubiquitin protein ligase 1B	<i>NEURL1B</i>	54492	0,001579	2,899151	down
Ubiquitin-conjugating enzyme E2S	<i>UBE2S</i>	27338	0,001592	2,647315	down
Marker of proliferation Ki-67	<i>MKI67</i>	4288	0,001679	3,911901	down
Asp (abnormal spindle) homolog, microcephaly associated (Drosophila)	<i>ASPM</i>	259266	0,001684	3,902023	down
UBA-like domain containing 2	<i>UBALD2</i>	283991	0,001788	2,658622	down
Centromere protein F 350/400kDa	<i>CENPF</i>	1063	0,001798	3,496949	down
			0,001871	4,510575	up
Serpin peptidase inhibitor, clade A (alpha-1 antitrypsin, antitrypsin), member 3	<i>SERPINA3</i>	12	0,001872	9,190365	up
Integrin, alpha 2b (platelet glycoprotein IIb of IIb/IIIa complex, antigen CD41)	<i>ITGA2B</i>	3674	0,001956	4,374142	down
Family with sequence similarity 81, member B	<i>FAM81B</i>	153643	0,001976	7,77958	down
Zinc finger, B-box domain containing	<i>ZBBX</i>	79740	0,002030	7,439108	down
TRAF interacting protein	<i>TRAIP</i>	10293	0,002069	2,377	down
Maternal embryonic leucine zipper kinase	<i>MELK</i>	9833	0,002085	4,260255	down
Cell division cycle 25C	<i>CDC25C</i>	995	0,002123	3,847171	down
Chromosome 1 open reading frame 112	<i>C1orf112</i>	55732	0,002140	2,487906	down
Cyclin O	<i>CCNO</i>	10309	0,002155	2,690524	down
SHC SH2-domain binding protein 1	<i>SHCBP1</i>	79801	0,002229	2,617423	down
Harakiri BCL2 interacting protein	<i>HRK</i>	8739	0,002240	2,643822	up
Ectonucleoside triphosphate diphosphohydrolase 3	<i>ENTPD3</i>	956	0,002302	3,737248	up
Chordin-like 2	<i>CHRD2</i>	25884	0,002313	5,444978	up
Transmembrane inner ear	<i>TMIE</i>	259236	0,002321	6,368152	up
Metallothionein 1M	<i>MT1M</i>	4499	0,002379	22,59839	up
Collagen, type XII, alpha 1	<i>COL12A1</i>	1303	0,002416	6,15139	down
HAUS augmin-like complex, subunit 8	<i>HAUS8</i>	93323	0,002472	2,378321	down
Acyl-CoA oxidase 2, branched chain	<i>ACOX2</i>	8309	0,002524	4,974121	down

			0,002534	6,820275	up
Asp (abnormal spindle) homolog, microcephaly associated (Drosophila)	<i>ASPM</i>	259266	0,002540	4,195096	down
Protein regulator of cytokinesis 1	<i>PRC1</i>	9055	0,002541	3,721241	down
Spectrin repeat containing, nuclear envelope 2	<i>SYNE2</i>	23224	0,002563	2,655667	down
Forkhead box D1	<i>FOXD1</i>	2297	0,002666	2,501887	up
			0,002677	3,263641	up
Katanin p60 subunit A-like 2	<i>KATNAL2</i>	83473	0,002706	2,811643	down
SNAI3 antisense RNA 1	<i>SNAI3-AS1</i>	197187	0,002723	7,522834	up
exonuclease NEF-sp	<i>LOC81691</i>	81691	0,002773	3,427184	down
N-terminal EF-hand calcium binding protein 2	<i>NECAB2</i>	54550	0,002821	4,594094	down
Coiled-coil domain containing 124	<i>CCDC124</i>	115098	0,002895	4,973399	up
			0,003034	7,021634	up
M-phase phosphoprotein 9	<i>MPHOSPH9</i>	10198	0,003089	2,215327	down
Centrosomal protein 55kDa	<i>CEP55</i>	55165	0,003136	3,051497	down
MAM domain containing glycosylphosphatidylinositol anchor 1	<i>MDGA1</i>	266727	0,003163	2,988097	down
Fanconi anemia, complementation group L	<i>FANCL</i>	55120	0,003199	2,739362	down
Family with sequence similarity 72, member A	<i>FAM72A</i>	729533	0,003235	3,250703	down
Cysteine-rich PDZ-binding protein	<i>CRIP1</i>	9419	0,003242	16,9491	up
Citron rho-interacting serine/threonine kinase	<i>CIT</i>	11113	0,003313	3,632454	down
Cyclin-dependent kinase 1	<i>CDK1</i>	983	0,003318	4,055617	down
Cyclin-dependt kinase inhibitor 3	<i>CDKN3</i>	1033	0,003338	3,089095	down
			0,003357	11,96597	up
Coiled-coil domain containing 74B	<i>CCDC74B</i>	91409	0,003371	2,524384	down
Ligase I, DNA, ATP-dependent	<i>LIG1</i>	3978	0,003446	2,684018	down
Nerve growth factor receptor	<i>NGFR</i>	4804	0,003472	15,31311	up
Chromosome 20 open reading frame 85	<i>C20orf85</i>	128602	0,003508	8,342358	down
Uncharacterized LOC286121	<i>LOC286121</i>	286121	0,003526	3,884363	up
ADAM metallopeptidase with thrombospondin type 1 motif, 4	<i>ADAMTS4</i>	9507	0,003633	3,775213	down

Growth arrest-specific 2 like 2	<i>GAS2L2</i>	246176	0,003635	6,736633	down
Structural maintenance of chromosomes 4	<i>SMC4</i>	10051	0,003653	2,869725	down
Zinc finger protein 544	<i>ZNF544</i>	27300	0,003779	2,297477	up
Archaelysin family metallopeptidase 2 pseudogene 1	<i>AMZ2P1</i>	201283	0,003823	20,66711	up
Nucleolar and spindle associated protein 1	<i>NUSAP1</i>	51203	0,003950	4,409157	down
Protein tyrosine phosphatase, receptor type, H	<i>PTPRH</i>	5794	0,003967	4,076265	up
Polymerase (DNA directed), theta	<i>POLQ</i>	10721	0,003970	2,825743	down
Family with sequence similarity 184, member A	<i>FAM184A</i>	79632	0,004029	2,078606	down
Cell division cycle associated 5	<i>CDCA5</i>	113130	0,004052	2,836625	down
Centromere protein F, 350/400kDa	<i>CENPF</i>	1063	0,004073	2,691388	down
Chromosome 6 open reading frame 1	<i>C6orf1</i>	221491	0,004191	2,052434	up
Diencephalon/mesencephalon homeobox 1	<i>DMBX1</i>	127343	0,004262	5,128355	down
			0,004289	3,113895	up
BUB1 mitotic checkpoint serine/threonine kinase B	<i>BUB1B</i>	701	0,004462	3,983008	down
Bloom syndrome, RecQ helicase-like	<i>BLM</i>	641	0,004467	2,865799	down
Histone cluster 1, H4l	<i>HIST1H4L</i>	8368	0,004551	3,3544	down
UDP-glucose pyrophosphorylase 2	<i>UGP2</i>	7360	0,004564	7,229548	up
Sulfatase 1	<i>SULF1</i>	23213	0,004692	5,69853	down
P antigen family, member 2 (prostate associated)	<i>PAGE2</i>	203569	0,004840	6,789625	up
Transportin 3	<i>TNPO3</i>	23534	0,004894	2,606354	up
Family with sequence similarity 134, member A	<i>FAM134A</i>	79137	0,004909	7,203542	up
Kinesin family member C1	<i>KIFC1</i>	3833	0,005000	4,628552	down
MTERF domain containing 2	<i>MTERFD2</i>	130916	0,005120	28,44981	up
Heterogeneous nuclear ribonucleoprotein A1-like 2	<i>HNRNPAIL2</i>	144983	0,005314	2,016544	down
DNA replication helicase/nuclease 2	<i>DNA2</i>	1763	0,005332	2,266447	down
TPX2, microtubule-associated	<i>TPX2</i>	22974	0,005359	3,569612	down
Dynein, axonemal, heavy chain 2	<i>DNAH2</i>	146754	0,005363	4,206628	down

			0,005407	10,3501	up
Dehydrogenase E1, transketolase domain containing 1	<i>DHTKD1</i>	55526	0,005511	2,707249	down
SPC24, NDC80 kinetochore complex component	<i>SPC24</i>	147841	0,005527	4,901077	down
Rho GTPase activating protein 11B	<i>ARHGAP11B</i>	89839	0,005545	3,917955	down
Nuclear factor, erythroid 2	<i>NFE2</i>	4778	0,005601	3,010231	down
Serine/arginine-rich splicing factor 2	<i>SRSF2</i>	6427	0,005618	2,691532	down
Apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3B	<i>APOBEC3B</i>	9582	0,005625	4,606757	down
Peptidoglycan recognition protein 2	<i>PGLYRP2</i>	114770	0,005667	4,827442	down
Heterogeneous nuclear ribonucleoprotein A1-like 2	<i>HNRNPAIL2</i>	144983	0,005697	2,129677	down
			0,005718	8,962461	up
Somatostatin receptor 2	<i>SSTR2</i>	6752	0,005776	5,159284	up
N-ethylmaleimide-sensitive factor attachment protein, gamma	<i>NAPG</i>	8774	0,005879	2,819486	up
DEP domain containing 1B	<i>DEPDC1B</i>	55789	0,005887	4,931724	down
Histone cluster 2, H3d	<i>HIST2H3D</i>	653604	0,005950	4,665086	down
Interferon induced transmembrane protein 10	<i>IFITM10</i>	402778	0,006048	4,473225	up
Histone cluster 1, H4c	<i>HIST1H4C</i>	8364	0,006074	3,44396	down
			0,006122	37,80272	up
E2F transcription factor 1	<i>E2F1</i>	1869	0,006214	2,672512	down
Protein kinase N3	<i>PKN3</i>	29941	0,006236	2,31239	down
Topoisomerase (DNA) II alpha 170kDa	<i>TOP2A</i>	7153	0,006338	4,63727	down
Suppressor of Ty 3 homolog (S, cerevisiae)	<i>SUPT3H</i>	8464	0,006446	3,061331	up
Cell division cycle associated 8	<i>CDC48</i>	55143	0,006475	3,242336	down
NIMA-related kinase 2	<i>NEK2</i>	4751	0,006537	2,652095	down
Bora, aurora kinase A activator	<i>BORA</i>	79866	0,006613	3,40044	down
			0,006638	22,81724	up
Keratin 23 (histone deacetylase inducible)	<i>KRT23</i>	25984	0,006774	2,505352	down
Phospholipase C, beta 1 (phosphoinositide-specific)	<i>PLCB1</i>	23236	0,006778	1,924989	down
PDZ domain containing 1	<i>PDZK1</i>	5174	0,006864	2,479239	down

Chromosome 1 open reading frame 228	<i>Clorf228</i>	339541	0,006947	3,752153	up
Long intergenic non-protein coding RNA 926	<i>LINC00926</i>	283663	0,007037	3,523178	up
Transcription factor 3	<i>TCF3</i>	6929	0,007109	1,963852	down
Platelet-derived growth factor alpha polypeptide	<i>PDGFA</i>	5154	0,007137	2,05707	up
V-erb-b2 avian erythroblastic leukemia viral oncogene homolog 2	<i>ERBB2</i>	2064	0,007143	2,772551	up
			0,007410	5,800875	up
Hair growth associated	<i>HR</i>	55806	0,007433	2,191001	down
			0,007466	3,498107	down
Cell division cycle 7	<i>CDC7</i>	8317	0,007551	2,199062	down
Olfactomedin 1	<i>OLFM1</i>	10439	0,007559	2,192221	down
DEAD/H (Asp-Glu-Ala-Asp/His) box helicase 11	<i>DDX11</i>	1663	0,007581	1,954045	down
PDZ binding kinase	<i>PBK</i>	55872	0,007648	3,853271	down
Transmembrane protein with Metallophosphoesterase domain	<i>TMPPE</i>	643853	0,007782	2,42768	up
Transmembrane protein 17	<i>TMEM17</i>	200728	0,007943	1,934408	down
High mobility group nucleosome binding domain 5	<i>HMGN5</i>	79366	0,007962	2,98784	down
Potassium inwardly-rectifying channel, subfamily J, member 2	<i>KCNJ2</i>	3759	0,008027	3,004489	down
Histone cluster 1, H1b	<i>HIST1H1B</i>	3009	0,008074	5,11355	down
Kinesin family member 2C	<i>KIF2C</i>	11004	0,008136	3,502179	down
Histone cluster 1, H3f	<i>HIST1H3F</i>	8968	0,008159	3,792929	down
Histone cluster 2, H3a	<i>HIST2H3A</i>	333932	0,008185	4,832928	down
Ras homolog enriched in brain like 1	<i>RHEBL1</i>	121268	0,008219	3,114764	down
Hydroxysteroid (17-beta) dehydrogenase 1	<i>HSD17B1</i>	3292	0,008425	2,212831	down
Kinetochore associated 1	<i>KNTC1</i>	9735	0,008427	2,86558	down
	<i>XLOC_000515</i>		0,008598	3,252916	down
Family with sequence similarity 83, member D	<i>FAM83D</i>	81610	0,008766	4,208283	down
Uncharacterized LOC100996457	<i>LOC100996457</i>	1,01E+08	0,008821	3,418032	up
WD repeat domain 26	<i>WDR26</i>	80232	0,008865	5,509101	up
Myotubularin related protein 14	<i>MTMR14</i>	64419	0,009012	4,909299	up

Tumor necrosis factor (ligand) superfamily, member 13b	<i>TNFSF13B</i>	10673	0,009080	3,02537	up
SPC25, NDC80 kinetochore complex component	<i>SPC25</i>	57405	0,009205	6,038872	down
Acyloxyacyl hydrolase (neutrophil)	<i>FAM183B</i>	340286	0,009231	3,393598	down
Retinoic acid early transcript 1E	<i>RAET1E</i>	135250	0,009282	4,827013	down
Centromere protein U	<i>CENPU</i>	79682	0,009331	3,601792	down
Cytochrome P450, family 27, subfamily A, polypeptide 1	<i>CYP27A1</i>	1593	0,009339	2,706971	up
Integral membrane protein 2A	<i>ITM2A</i>	9452	0,009367	3,363405	down
Insulin-like 3 (Leydig cell)	<i>INSL3</i>	3640	0,009480	2,213332	up
			0,009556	2,686536	down
Carbohydrate (N-acetylgalactosamine 4-sulfate 6-O) sulfotransferase 15	<i>CHST15</i>	51363	0,009574	1,86968	up
Uncharacterized LOC440330	<i>LOC440330</i>	440330	0,009926	3,448612	up
Histone cluster 1, H3j	<i>HIST1H3J</i>	8356	0,009949	4,433741	down
Cyclin-dependent kinase inhibitor 2A	<i>CDKN2A</i>	1029	0,010112	2,123805	down
Leucine rich adaptor protein 1-like	<i>LURAP1L</i>	286343	0,010480	12,96267	up
Serine palmitoyltransferase, small subunit B	<i>SPTSSB</i>	165679	0,010525	4,981828	down
Trophinin associated protein	<i>TROAP</i>	10024	0,010665	2,232183	down
Growth arrest-specific 2 like 3	<i>GAS2L3</i>	283431	0,010931	2,801534	down
Kinetochore-localized astrin/SPAG5 binding protein	<i>KNSTRN</i>	90417	0,010971	2,466582	down
DSN1, MIS12 kinetochore complex component	<i>DSN1</i>	79980	0,011094	2,322518	down
Caspase recruitment domain family, member 9	<i>CARD9</i>	64170	0,011148	2,687131	down
Non-SMC condensin I complex, subunit D2	<i>NCAPD2</i>	9918	0,011286	3,099637	down
Tetratricopeptide repeat domain 1	<i>TTC1</i>	7265	0,011503	4,628478	up
Mesoderm posterior 1 homolog (mouse)	<i>MESP1</i>	55897	0,011641	2,929325	up
Phosphoglycerate mutase 2 (muscle)	<i>PGAM2</i>	5224	0,011714	3,36474	down
Origin recognition complex, subunit 6	<i>ORC6</i>	23594	0,011720	3,109129	down
TTK protein kinase	<i>TTK</i>	7272	0,011806	2,554617	down
Aldehyde dehydrogenase 7 family, member A1	<i>ALDH7A1</i>	501	0,011859	2,374342	down
RAB39B, member RAS oncogene family	<i>RAB39B</i>	116442	0,011991	4,187668	up

Solute carrier family 29 (equilibrative nucleoside transporter), member 3	<i>SLC29A3</i>	55315	0,012104	2,064421	up
Ubiquitin protein ligase E3B	<i>UBE3B</i>	89910	0,012717	2,02906	down
Tthymosin beta 15B	<i>TMSB15B</i>	286527	0,012800	2,489235	down
Tyrosinase-related protein 1	<i>TYRP1</i>	7306	0,013038	1,998141	down
Uncharacterized LOC101929089	<i>LOC101929089</i>	1,02E+08	0,013142	2,405755	up
Cyclin A2	<i>CCNA2</i>	890	0,013365	3,864329	down
Endoplasmic reticulum-golgi intermediate compartment (ERGIC) 1	<i>ERGIC1</i>	57222	0,013371	2,887065	up
CD40 molecule, TNF receptor superfamily member 5	<i>CD40</i>	958	0,013386	2,420197	up
IQ motif containing GTPase activating protein 3	<i>IQGAP3</i>	128239	0,013408	4,228458	down
Minichromosome maintenance complex component 8	<i>MCM8</i>	84515	0,013428	2,613038	down
Leucine rich repeat containing 69	<i>LRRC69</i>	1E+08	0,013536	2,557307	down
G-2 and S-phase expressed 1	<i>GTSE1</i>	51512	0,013668	4,554829	down
RNA binding motif (RNP1, RRM) protein 3	<i>RBM3</i>	5935	0,013822	1,808763	down
Uncharacterized LOC100130219	<i>LOC100130219</i>	1E+08	0,014157	2,516062	up
Chromosome 6 open reading frame 89	<i>C6orf89</i>	221477	0,014503	6,440473	up
Helicase, lymphoid-specific	<i>HELLS</i>	3070	0,014514	2,408129	down
Chromosome 14 open reading frame 80	<i>C14orf80</i>	283643	0,014591	1,777298	down
Radial spoke head 1 homolog (Chlamydomonas)	<i>RSPH1</i>	89765	0,014664	2,332317	down
Zinc finger protein 675	<i>ZNF675</i>	171392	0,014872	10,38462	up
PIF1 5'-to-3' DNA helicase	<i>PIF1</i>	80119	0,014882	5,864979	down
Opsin 3	<i>OPN3</i>	23596	0,015438	2,232012	up
Solute carrier family 35 (GDP-fucose transporter), member C1	<i>SLC35C1</i>	55343	0,015592	2,100866	up
DBF4 zinc finger	<i>DBF4</i>	10926	0,015622	1,985261	down
Serine/arginine-rich splicing factor 2	<i>SRSF2</i>	6427	0,015967	2,171753	down
Karyopherin alpha 2 (RAG cohort 1, importin alpha 1)	<i>KPNA2</i>	3838	0,016003	2,249341	down
Potassium large conductance calcium-activated	<i>KCNMB4</i>	27345	0,016206	2,582371	down

channel, subfamily M, beta member 4					
			0,016549	3,246221	up
Chemokine (C-X-C motif) ligand 16	<i>CXCL16</i>	58191	0,016705	4,359885	up
Creatine kinase, mitochondrial 2 (sarcomeric)	<i>CKMT2</i>	1160	0,016707	7,408981	down
Centromere protein I	<i>CENPI</i>	2491	0,016813	4,552611	down
RNA binding motif (RNP1, RRM) protein 3	<i>RBM3</i>	5935	0,016874	2,209546	down
Spermidine/spermine N1-acetyltransferase 1	<i>SATI</i>	6303	0,017049	2,292255	up
Acetyl-CoA acyltransferase 1	<i>ACAA1</i>	30	0,017236	1,974084	up
Adenylate cyclase 9	<i>ADCY9</i>	115	0,017354	8,631489	up
Forkhead box J1	<i>FOXJ1</i>	2302	0,017382	5,48216	down
Structural maintenance of chromosomes 2	<i>SMC2</i>	10592	0,017597	2,489783	down
E74-like factor 3 (ets domain transcription factor, epithelial-specific)	<i>ELF3</i>	1999	0,017651	2,343835	up
Laminin, beta 2 pseudogene 1	<i>LAMB2P1</i>	22973	0,017674	2,647888	up
Integrator complex subunit 8	<i>INTS8</i>	55656	0,017726	7,746536	up
KIAA1244	<i>KIAA1244</i>	57221	0,017891	1,987003	up
			0,018137	5,913738	down
Thymidine kinase 1, soluble	<i>TK1</i>	7083	0,018287	3,215104	down
Tektin 4 pseudogene	<i>LOC100233156</i>	1E+08	0,018345	2,65841	up
Alstrom syndrome 1	<i>ALMS1</i>	7840	0,018431	2,329128	down
Centrosomal protein 78kDa	<i>CEP78</i>	84131	0,018548	1,924276	down
Kinesin family member 11	<i>KIF11</i>	3832	0,018591	4,593041	down
Ribonucleotide reductase M1	<i>RRM1</i>	6240	0,018728	2,270862	down
Ribosomal protein S10	<i>RPS10</i>	6204	0,018849	23,66536	up
ZC3H18 antisense RNA 1 (head to head)	<i>ZC3H18-AS1</i>	400555	0,019025	5,185311	up
Hydrolethalus syndrome 1	<i>HYLS1</i>	219844	0,019234	2,373627	down
Tyrosinase-related protein 1	<i>TYRP1</i>	7306	0,019296	1,82443	down
Histone cluster 1, H3b	<i>HIST1H3B</i>	8358	0,019352	4,980972	down
RAB GTPase activating protein 1-like	<i>RABGAP1L</i>	9910	0,019366	1,877381	down
TBC1 domain family, member 9 (with GRAM domain)	<i>TBC1D9</i>	23158	0,019510	2,037406	up

Protease, serine, 2 (trypsin 2)	<i>PRSS2</i>	5645	0,019746	10,16331	up
5-oxoprolinase (ATP-hydrolysing)	<i>OPLAH</i>	26873	0,019913	2,029468	up
Tektin 2 (testicular)	<i>TEKT2</i>	27285	0,020018	4,517375	down
H2A histone family, member X	<i>H2AFX</i>	3014	0,020125	3,372104	down
Kinesin family member 20B	<i>KIF20B</i>	9585	0,020313	1,997791	down
Centriolin	<i>CNTRL</i>	11064	0,020363	2,659094	down
kinesin family member 4A	<i>KIF4A</i>	24137	0,020402	3,769752	down
DEAD/H (Asp-Glu-Ala-Asp/His) box helicase 11	<i>DDX11</i>	1663	0,020542	2,161539	down
WD repeat domain 62	<i>WDR62</i>	284403	0,020572	3,227397	down
Phospholipase C, beta 1 (phosphoinositide-specific)	<i>PLCB1</i>	23236	0,020719	1,867307	down
Cell division cycle 20	<i>CDC20</i>	991	0,020758	3,23762	down
Structural maintenance of chromosomes 4	<i>SMC4</i>	10051	0,020812	2,426638	down
			0,021244	1,993777	up
WD repeat domain 66	<i>WDR66</i>	144406	0,021416	6,10039	down
Annexin A1	<i>ANXA1</i>	301	0,021553	3,275215	down
Sulfiredoxin 1	<i>SRXN1</i>	140809	0,021579	1,798548	up
EF-hand calcium binding domain 12	<i>EFCA12</i>	90288	0,021586	2,019858	down
Epithelial cell transforming 2	<i>ECT2</i>	1894	0,021960	2,37945	down
Chemokine (C-C motif) ligand 28	<i>CCL28</i>	56477	0,021990	3,252345	down
Zinc finger, MYND-type containing 10	<i>ZMYND10</i>	51364	0,022163	4,629754	down
Ras homolog family member H	<i>RHOH</i>	399	0,022226	2,419912	down
Potassium large conductance calcium-activated channel, subfamily M, alpha member 1	<i>KCNMA1</i>	3778	0,022789	3,077034	up
Cytochrome P450, family 1, subfamily B, polypeptide 1	<i>CYP1B1</i>	1545	0,022797	3,877337	up
PHD finger protein 19	<i>PHF19</i>	26147	0,022840	2,400283	down
			0,022938	2,905893	up
Retinoblastoma-like 1	<i>RBL1</i>	5933	0,023132	1,80847	down
Chemokine (C-X-C motif) ligand 14	<i>CXCL14</i>	9547	0,023234	8,545501	down
Naked cuticle homolog2 (Droso)	<i>NKD2</i>	85409	0,023268	3,633287	up

X-ray repair complementing defective repair in Chinese hamster cells 3	<i>XRCC3</i>	7517	0,023413	1,649334	down
Coiled-coil alpha-helical rod protein 1	<i>CCHCR1</i>	54535	0,023448	2,126646	down
TYMS opposite strand	<i>TYMSOS</i>	494514	0,023474	3,552782	down
Protease, serine, 57	<i>PRSS57</i>	400668	0,023507	6,0424	up
Sushi domain containing 4	<i>SUSD4</i>	55061	0,023751	2,947117	up
Harakiri, BCL2 interacting protein	<i>HRK</i>	8739	0,023857	2,482795	up
Histone cluster 1, H3h	<i>HIST1H3H</i>	8357	0,023894	3,42502	down
Dynein, axonemal, heavy chain 12	<i>DNAH12</i>	201625	0,023979	8,232701	down
Neuralized E3 ubiquitin protein ligase 2	<i>NEURL2</i>	140825	0,024017	2,866545	up
TLC domain containing 2	<i>TLCD2</i>	727910	0,024028	2,053289	up
Thyroid hormone receptor interactor 13	<i>TRIP13</i>	9319	0,024095	3,44274	down
Long intergenic non-protein coding RNA 1137	<i>LINC01137</i>	728431	0,024138	1,758874	up
Lines homolog (Drosophila)	<i>LINS</i>	55180	0,024275	5,796224	up
Serine/arginine-rich splicing factor 7	<i>SRSF7</i>	6432	0,024321	3,156187	down
NUF2, NDC80 kinetochore complex component	<i>NUF2</i>	83540	0,024563	3,789002	down
Solute carrier family 27 (fatty acid transporter), member 1	<i>SLC27A1</i>	376497	0,024833	4,187424	up
Dihydrofolate reductase	<i>DHFR</i>	1719	0,025054	3,170203	down
			0,025060	2,225678	up
Acidic (leucine-rich) nuclear phosphoprotein 32 family, member E	<i>ANP32E</i>	81611	0,025245	3,006694	down
Aurora kinase A	<i>AURKA</i>	6790	0,025635	2,937156	down
IMP3, U3 small nucleolar ribonucleoprotein	<i>IMP3</i>	55272	0,025719	2,025773	up
Centromere protein N	<i>CENPN</i>	55839	0,025753	2,795759	down
Cyclin-dependent kinase inhibitor 2C (p18, inhibits CDK4)	<i>CDKN2C</i>	1031	0,025754	3,70239	down
Radial spoke head 1 homolog (Chlamydomonas)	<i>RSPH1</i>	89765	0,025829	2,471466	down
Fanconi anemia, complementation group A	<i>FANCA</i>	2175	0,025952	2,32515	down
Minichromosome maintenance complex component 7	<i>MCM7</i>	4176	0,026007	2,479603	down
Prostaglandin E receptor 3 (subtype EP3)	<i>PTGER3</i>	5733	0,026347	1,998982	down

RNA binding motif protein, X-linked	<i>RBMX</i>	27316	0,027159	3,410786	down
SCL/TAL1 interrupting locus	<i>STIL</i>	6491	0,027216	2,631505	down
TMPO antisense RNA 1	<i>TMPO-AS1</i>	1E+08	0,027304	3,393505	down
ATP-binding cassette, sub-family C (CFTR/MRP), member 13, pseudogene	<i>ABCC13</i>	150000	0,027691	2,262844	down
PWWP domain containing 2A	<i>PWWP2A</i>	114825	0,028114	1,843719	down
SCY1-like 2 (S, cerevisiae)	<i>SCYL2</i>	55681	0,028498	3,957434	up
Metallothionein 1X	<i>MT1X</i>	4501	0,028654	2,014739	up
Complement factor H-related 4	<i>CFHR4</i>	10877	0,029010	4,244967	down
MAD2 mitotic arrest deficient-like 1 (yeast)	<i>MAD2L1</i>	4085	0,029240	2,988599	down
Nephronophthisis 1 (juvenile)	<i>NPHP1</i>	4867	0,029504	1,770253	down
TP53 target 3	<i>TP53TG3</i>	24150	0,029563	1,738307	up
Uncharacterized LOC642852	<i>LOC642852</i>	642852	0,029588	2,481252	up
Keratin 86	<i>KRT86</i>	3892	0,029879	1,870911	down
Family with sequence similarity 92, member B	<i>FAM92B</i>	339145	0,030135	7,205239	down
E2F transcription factor 7	<i>E2F7</i>	144455	0,030222	3,349951	down
Tetratricopeptide repeat domain 25	<i>TTC25</i>	83538	0,030434	1,778084	down
Histone cluster 1, H3c	<i>HIST1H3C</i>	8352	0,030678	1,782842	down
Solute carrier family 6 (neurotransmitter transporter), member 8	<i>SLC6A8</i>	6535	0,030921	2,08647	up
Centromere protein W	<i>CENPW</i>	387103	0,030967	3,206586	down
Histone cluster 1, H3g	<i>HIST1H3G</i>	8355	0,031133	3,052673	down
Fanconi anemia, complementation group G	<i>FANCG</i>	2189	0,031144	2,009618	down
			0,031260	2,115882	down
Utrophin	<i>UTRN</i>	7402	0,031467	2,162914	down
Carbonic anhydrase XIV	<i>CA14</i>	23632	0,031482	3,904222	down
Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 1	<i>CITED1</i>	4435	0,031759	3,282691	up
Coiled-coil domain containing 77	<i>CCDC77</i>	84318	0,032015	1,838885	down
Lysosomal-associated membrane protein 3	<i>LAMP3</i>	27074	0,032185	4,638646	up
Casein kinase 1, gamma 2	<i>CSNK1G2</i>	1455	0,032204	2,503948	up

Histone cluster 1, H3e	<i>HIST1H3E</i>	8353	0,032407	4,290937	down
Keratin 8	<i>KRT8</i>	3856	0,032517	1,998552	up
MIS18 binding protein 1	<i>MIS18BP1</i>	55320	0,032676	2,931799	down
Breast cancer 1, early onset	<i>BRCA1</i>	672	0,033121	2,218738	down
MAFG antisense RNA 1 (head to head)	<i>MAFG-AS1</i>	92659	0,033638	1,612579	up
Family with sequence similarity 195, member B	<i>FAM195B</i>	348262	0,033719	1,736749	up
Radial spoke head 4 homolog A (Chlamydomonas)	<i>RSPH4A</i>	345895	0,033794	3,279592	down
Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon	<i>YWHAE</i>	7531	0,034070	4,935627	up
Trefoil factor 3 (intestinal)	<i>TFF3</i>	7033	0,034218	2,880832	down
Vaccinia related kinase 1	<i>VRK1</i>	7443	0,034243	2,152398	down
Proline rich 15-like	<i>PRR15L</i>	79170	0,034335	2,08639	up
Zinc finger protein 784	<i>ZNF784</i>	147808	0,034704	2,205906	down
			0,034862	1,918503	up
Thymidylate synthetase	<i>TYMS</i>	7298	0,034934	3,588169	down
B9 protein domain 2	<i>B9D2</i>	80776	0,035117	2,171948	down
Adenosine deaminase, RNA-specific, B1	<i>ADARBI</i>	104	0,035332	1,663431	up
MCF2L antisense RNA 1	<i>MCF2L-AS1</i>	1E+08	0,035402	2,13427	up
Stathmin 1	<i>STMN1</i>	3925	0,035539	2,464772	down
Protein tyrosine kinase 6	<i>PTK6</i>	5753	0,035710	1,917718	up
Heterogeneous nuclear ribonucleoprotein A1-like 2	<i>HNRNPAIL2</i>	144983	0,035954	1,823643	down
Aurora kinase B	<i>AURKB</i>	9212	0,036030	4,41236	down
Prothymosin, alpha	<i>PTMA</i>	5757	0,036222	1,974675	down
KIAA0101	<i>KIAA0101</i>	9768	0,036727	4,072048	down
Chromosome 16 open reading frame 59	<i>C16orf59</i>	80178	0,036798	1,85862	down
Pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 4	<i>PLEKHA4</i>	57664	0,036957	1,878572	down
Tetratricopeptide repeatdomain37	<i>TTC37</i>	9652	0,037350	5,062424	up
Mitochondrial antiviral signaling protein	<i>MAVS</i>	57506	0,037396	1,965764	up
Aldehyde dehydrogenase 7 family, member A1	<i>ALDH7A1</i>	501	0,037433	1,771985	down
			0,037524	9,16561	up

Solute carrier family 9, subfamily A (NHE1, cation proton antiporter 1), member 1	<i>SLC9A1</i>	6548	0,037570	2,333269	up
Myosin light chain kinase	<i>MYLK</i>	4638	0,037760	2,975004	down
ST3 beta-galactoside alpha-2,3-sialyltransferase 1	<i>ST3GAL1</i>	6482	0,037790	2,399906	up
Keratin 23 (histone deacetylase inducible)	<i>KRT23</i>	25984	0,037883	2,350415	down
Complement component 3	<i>C3</i>	718	0,037953	2,137369	down
Family with sequence similarity 83, member G	<i>FAM83G</i>	644815	0,038134	2,308602	up
Y box binding protein 2	<i>YBX2</i>	51087	0,038340	1,759431	down
Transmembrane protein 25	<i>TMEM25</i>	84866	0,038372	2,38212	up
Metallothionein 1A	<i>MT1A</i>	4489	0,038402	1,717077	up
Retinol dehydrogenase 16 (all-trans)	<i>RDH16</i>	8608	0,038637	2,782352	up
F-box and leucine-rich repeat protein 5	<i>FBXL5</i>	26234	0,038804	2,480305	down
Transmembrane protein 38A	<i>TMEM38A</i>	79041	0,038824	2,202767	up
Alcohol dehydrogenase, iron containing, 1	<i>ADHFE1</i>	137872	0,039344	2,728124	up
Geminin, DNA replication inhibitor	<i>GMNN</i>	51053	0,040047	2,345224	down
X antigen family, member 2	<i>XAGE2</i>	9502	0,040260	3,512609	down
Polymerase (RNA) I polypeptide D, 16kDa	<i>POLRID</i>	51082	0,040974	1,620662	up
Transforming, acidic coiled-coil containing protein 3	<i>TACC3</i>	10460	0,041209	2,906876	down
EPB41L4A antisense RNA 1	<i>EPB41L4A-AS1</i>	114915	0,041520	1,872649	up
Enhancer of zeste 2 polycomb repressive complex 2 subunit	<i>EZH2</i>	2146	0,041638	2,053013	down
DNA replication and sister chromatid cohesion 1	<i>DSCC1</i>	79075	0,041647	2,475855	down
A kinase (PRKA) anchor protein 14	<i>AKAP14</i>	158798	0,042484	13,191	down
Forkhead box N4	<i>FOXN4</i>	121643	0,043055	3,628071	down
Polymerase (DNA directed), alpha 1, catalytic subunit	<i>POLA1</i>	5422	0,043814	2,32858	down
Ras and Rab interactor-like	<i>RINL</i>	126432	0,043921	1,838174	up
Chromosome 1 open reading frame 194	<i>C1orf194</i>	127003	0,044087	5,674982	down
Resistin	<i>RETN</i>	56729	0,044155	6,13852	up
Teneurin transmembraneprotein 2	<i>TENM2</i>	57451	0,044623	6,286201	down

F-box protein 5	<i>FBXO5</i>	26271	0,045363	3,73467	down
DNA (cytosine-5-)-methyltransferase 3 beta	<i>DNMT3B</i>	1789	0,045484	2,238113	down
			0,045548	1,857227	up
BFSP2 antisense RNA 1	<i>BFSP2-AS1</i>	85003	0,045672	2,53332	down
Polymerase (DNA-directed), epsilon 4, accessory subunit	<i>POLE4</i>	56655	0,045934	1,987637	down
Ring finger and WD repeat domain 3	<i>RFWD3</i>	55159	0,046050	2,092857	down
Nuclear paraspeckle assembly transcript 1 (non-protein coding)	<i>NEAT1</i>	283131	0,046243	4,481382	up
Helicase-like transcription factor	<i>HLTF</i>	6596	0,046351	1,519979	down
SRRM2 antisense RNA 1	<i>SRRM2-AS1</i>	1E+08	0,046516	1,995018	up
Rac GTPase activating protein 1	<i>RACGAP1</i>	29127	0,046621	2,719485	down
Histone cluster 2, H2bf	<i>HIST2H2BF</i>	440689	0,046733	1,978744	down
Uncharacterized LOC100130548	<i>LOC100130548</i>	1E+08	0,047071	2,361102	up
Metallothionein-like 5, testis-specific (tesmin)	<i>MTL5</i>	9633	0,047215	2,501748	down
Exonuclease 1	<i>EXO1</i>	9156	0,047356	3,359399	down
Synaptotagmin XIII	<i>SYT13</i>	57586	0,047410	4,198441	down
			0,047795	2,234911	up
Solute carrier family 23 (ascorbic acid transporter), member 1	<i>SLC23A1</i>	9963	0,047893	2,483128	down
Adenosine kinase	<i>ADK</i>	132	0,048122	1,843301	down
Spindle apparatus coiled-coil protein 1	<i>SPDL1</i>	54908	0,048129	1,817692	down
Serine/arginine-rich splicing factor 3	<i>SRSF3</i>	6428	0,048212	2,650543	down
Protein tyrosine phosphatase-like (proline instead of catalytic arginine), member A	<i>PTPLA</i>	9200	0,048247	2,777759	down
Cytochrome P450, family 2, subfamily B, polypeptide 6	<i>CYP2B6</i>	1555	0,048364	3,048786	down
Inverted formin, FH2 and WH2 domain containing	<i>INF2</i>	64423	0,048515	1,87576	down
MARVEL domain containing 3	<i>MARVELD3</i>	91862	0,048579	1,8131	up
Major histocompatibility complex, class I, L (pseudogene)	<i>HLA-L</i>	3139	0,048686	2,611485	up
Linker for activation of T cells family, member 2	<i>LAT2</i>	7462	0,048726	3,158201	down
MAP/microtubule affinity-regulating kinase 2	<i>MARK2</i>	2011	0,048888	2,241062	up

Dynein, axonemal, heavy chain 6	<i>DNAH6</i>	1768	0,048930	5,12436	down
Polypeptide N-acetylgalactosaminyltransferase 5	<i>GALNT5</i>	11227	0,049353	4,754157	down
Transmembrane protein 139	<i>TMEM139</i>	135932	0,049821	1,933476	down

Supplementary Table 3. List of genes with statistically significant changes when comparing the 35% dose with the control in MCF-10A cells.

Gene Name	Gene Symbol	Entrez Gene ID	P (Corr)	FC (abs)	Regulation
			0,000001	7,700972	up
Long intergenic non-protein coding RNA 106	<i>LINC00106</i>	751580	0,000007	4,576078	up
			0,000017	4,896715	up
			0,000026	3,585016	up
			0,000034	5,682929	up
			0,000035	8,984499	up
Uncharacterized LOC401557	<i>LOC401557</i>	401557	0,000092	8,86158	up
			0,000098	4,006187	up
			0,000115	3,593675	up
			0,000162	3,222531	up
			0,000164	7,442188	up
			0,000178	5,034462	up
			0,000185	3,762739	up
			0,000191	3,249172	up
Bestrophin 3	<i>BEST3</i>	144453	0,000195	4,717061	up
			0,000200	5,515887	up
			0,000213	5,155048	up
			0,000225	4,786517	up
Transferrin receptor 2	<i>TFR2</i>	7036	0,000229	2,635378	up
			0,000251	5,832904	up
Proline rich 21	<i>PRR21</i>	643905	0,000323	5,312288	up
Solute carrier family 22, member 31	<i>SLC22A31</i>	146429	0,000324	2,772733	up

Uncharacterized protein C8orf9	<i>LOC157740</i>	157740	0,000363	3,085222	up
Glutamate receptor, ionotropic, N-methyl-D-aspartate 3A	<i>GRIN3A</i>	116443	0,000370	5,019998	up
Protection of telomeres 1	<i>POT1</i>	25913	0,000471	7,183622	up
			0,000475	3,36957	up
			0,000503	6,000791	up
Ras association (RalGDS/AF-6) domain family member 2	<i>RASSF2</i>	9770	0,000533	4,993463	up
Eyes shut homolog (Drosophila)	<i>EYS</i>	346007	0,000594	3,164722	up
			0,000611	2,355847	up
JAZF1 antisense RNA 1	<i>JAZF1-AS1</i>	1E+08	0,000631	4,573745	up
			0,000635	2,484101	up
ADAM metalloproteinase with thrombospondin type 1 motif, 7	<i>ADAMTS7</i>	11173	0,000674	4,38866	up
Uncharacterized LOC100128364	<i>LOC100128364</i>	1E+08	0,000706	3,236881	up
			0,000730	3,103047	up
			0,000734	3,552984	up
Highly accelerated region 1A (non-protein coding)	<i>HARIA</i>	768096	0,000795	2,731773	up
			0,000814	9,729819	up
			0,000849	4,880847	up
			0,000888	3,208918	up
XK, Kell blood group complex subunit-related family, member 9	<i>XKR9</i>	389668	0,000915	3,165697	up
			0,001008	3,560305	up
			0,001087	5,427637	up
Carcinoembryonic antigen related cell adhesion molecule 19	<i>CEACAM19</i>	56971	0,001115	3,903391	up
			0,001145	2,189041	up
			0,001180	5,786849	up
			0,001260	3,112083	up
Fascin actin-bundling protein 2, retinal	<i>FSCN2</i>	25794	0,001260	2,936505	up
			0,001286	2,576812	up

			0,001365	3,450828	up
von Willebrand factor A domain containing 7	<i>VWA7</i>	80737	0,001366	3,366099	up
			0,001380	5,668029	up
Ribosomal protein S12	<i>RPS12</i>	6206	0,001391	2,508153	down
			0,001453	2,072427	up
			0,001481	7,312265	up
Mitochondrial elongation factor 1	<i>MIEF1</i>	54471	0,001509	3,478367	up
			0,001526	2,141494	up
Ribonuclease P/MRP 25kDa subunit	<i>RPP25</i>	54913	0,001550	3,398254	up
			0,001611	5,052399	up
Yippee-like 4 (Drosophila)	<i>YPEL4</i>	219539	0,001617	3,257381	up
			0,001663	4,132681	up
			0,001794	4,93065	up
Myosin IIIA	<i>MYO3A</i>	53904	0,001906	4,327127	up
			0,001974	4,294117	up
DnaJ (Hsp40) homolog, subfamily C, member 22	<i>DNAJC22</i>	79962	0,002131	4,699287	up
			0,002302	5,080621	up
keratin 17 pseudogene 5	<i>KRT17P5</i>	339240	0,002303	2,011406	up
			0,002453	1,923872	up
			0,002594	2,009476	up
			0,002712	2,203903	up
F-box protein 17	<i>FBXO17</i>	115290	0,002849	3,227747	up
			0,002902	3,772373	up
			0,002908	2,533236	up
			0,002908	9,65436	up
Leucine rich repeat containing 3C	<i>LRRC3C</i>	1,01E+08	0,002963	2,709204	up
			0,003102	2,336233	up
			0,003141	2,441378	up
			0,003217	3,387536	up

			0,003262	6,27008	up
Dipeptidase 3	<i>DPEP3</i>	64180	0,003307	3,217286	up
Long intergenic non-protein coding RNA 626	<i>LINC00626</i>	79100	0,003383	2,551364	up
	<i>XLOC_014512</i>		0,003390	7,699414	up
			0,003410	2,678332	up
Adrenoceptor alpha 1A	<i>ADRA1A</i>	148	0,003429	2,619925	up
			0,003482	4,573853	up
sialic acid binding Ig-like lectin 14	<i>SIGLEC14</i>	1E+08	0,003800	2,695125	up
			0,003867	3,724189	up
Uncharacterized LOC727721	<i>LOC727721</i>	727721	0,004053	2,832087	up
			0,004141	1,912971	up
			0,004288	3,741884	up
Leucine rich repeat and Ig domain containing 1	<i>LINGO1</i>	84894	0,004314	2,364683	up
WAP four-disulfide core domain 2	<i>WFDC2</i>	10406	0,004483	1,742722	down
			0,004643	2,218072	up
			0,004761	3,347432	up
			0,004778	2,374369	up
			0,004791	2,339744	up
			0,004980	2,805658	up
			0,005046	2,535534	up
Calcium channel, voltage-dependent, L type, alpha 1C subunit	<i>CACNA1C</i>	775	0,005048	2,992275	up
Leukocyte receptor tyrosine kinase	<i>LTK</i>	4058	0,005159	3,060265	up
DDB1 and CUL4 associated factor 12-like 2	<i>DCAF12L2</i>	340578	0,005254	9,137902	up
Nestin	<i>NES</i>	10763	0,005260	2,120554	up
Cancer/testis antigen 55	<i>CT55</i>	54967	0,005319	5,053902	up
			0,005369	3,283277	up
			0,005443	4,791481	up
			0,005590	3,614324	up
			0,005966	32,45405	up

WNT1 inducible signaling pathway protein 2	<i>WISP2</i>	8839	0,006442	1,890512	down
			0,006453	3,813186	up
			0,006526	2,123061	up
			0,006595	3,468689	up
			0,006789	3,36402	up
			0,006945	4,282684	up
			0,007016	4,298914	up
MAS-related GPR, member G	<i>MRGPRG</i>	386746	0,007115	2,136202	up
Hes family bHLH transcription factor 6	<i>HES6</i>	55502	0,007462	1,584701	up
Transmembrane protein 86B	<i>TMEM86B</i>	255043	0,007492	2,140563	up
			0,007606	3,85651	up
Adenosine monophosphate deaminase 3	<i>AMPD3</i>	272	0,008068	2,588916	down
Delta(4)-desaturase, sphingolipid 2	<i>DEGS2</i>	123099	0,008187	2,30348	up
			0,008397	4,662686	up
Pyroglutamylated RFamide peptide	<i>QRFP</i>	347148	0,008420	2,131308	up
			0,008446	3,375134	up
Dual specificity phosphatase 6	<i>DUSP6</i>	1848	0,008509	2,376125	up
Olfactory receptor, family 1, subfamily S, member 1	<i>ORIS1</i>	219959	0,008585	4,67927	up
			0,009295	3,898365	up
Uncharacterized FLJ36000	<i>FLJ36000</i>	284124	0,009457	3,018273	up
Granzyme M (lymphocyte met-ase 1)	<i>GZMM</i>	3004	0,009588	2,514736	up
Prostate cancer susceptibility candidate 2	<i>PRAC2</i>	360205	0,009643	3,879152	up
			0,009895	3,340841	up
			0,010017	5,717622	up
			0,010282	7,227223	up
			0,010593	2,1964	up
Tenascin XB	<i>TNXB</i>	7148	0,010623	2,179103	up
Family with sequence similarity 109, member B	<i>FAM109B</i>	150368	0,011088	4,607447	up
Chromosome 9 open reading frame 163	<i>C9orf163</i>	158055	0,011089	2,242879	up

			0,011097	2,282786	up
			0,011203	3,289948	up
Family with sequence similarity 71, member A	<i>FAM71A</i>	149647	0,011349	16,6141	up
Deleted in lymphocytic leukemia 1 (non-protein coding)	<i>DLEU1</i>	10301	0,011410	4,894138	up
			0,011712	2,914831	up
Leucine rich repeat containing 16B	<i>LRRC16B</i>	90668	0,011829	3,761622	up
Uncharacterized LOC400863	<i>LOC400863</i>	400863	0,011984	4,566288	up
			0,012098	2,931958	up
Trefoil factor 1	<i>TFF1</i>	7031	0,012385	3,114766	up
WD repeat domain 90	<i>WDR90</i>	197335	0,012474	3,088603	up
			0,012805	2,202133	up
			0,012888	1,563694	up
HOP homeobox	<i>HOPX</i>	84525	0,013468	5,661963	up
Killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 2	<i>KIR3DL2</i>	3812	0,013475	2,013251	up
Tubulin polyglutamylase complex subunit 2	<i>TPGS2</i>	25941	0,013501	1,907194	up
Uncharacterized LOC388210	<i>LOC388210</i>	388210	0,014033	3,011868	up
Sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4A	<i>SEMA4A</i>	64218	0,014127	4,148161	up
Uncharacterized LOC100509490	<i>LOC100509490</i>	1,01E+08	0,014375	2,912714	up
			0,014423	4,255977	up
			0,015229	2,82099	up
			0,016500	2,57335	up
			0,016955	6,681182	up
			0,017199	5,354326	up
			0,017781	3,13563	up
Uncharacterized LOC441204	<i>LOC441204</i>	441204	0,017787	1,953478	up
Centrosomal protein 85kDa	<i>CEP85</i>	64793	0,017978	1,877001	up
FAM83H antisense RNA 1 (head to head)	<i>FAM83H-AS1</i>	1E+08	0,018053	2,805593	up

			0,018280	3,900799	up
			0,018614	1,878845	up
			0,019349	2,016445	up
Adenylate cyclase 4	<i>ADCY4</i>	196883	0,020634	2,260043	up
			0,020651	2,642615	up
			0,020702	2,697844	up
			0,020836	3,322608	up
Cancer/testis antigen family 47, member A11	<i>CT47A11</i>	255313	0,021532	1,704829	up
Keratin associated protein 3-1	<i>KRTAP3-1</i>	83896	0,021638	5,153552	up
			0,021828	2,217447	up
Interleukin 16	<i>IL16</i>	3603	0,022345	3,542805	up
			0,022463	5,245202	up
Armadillo repeat containing 5	<i>ARMC5</i>	79798	0,022637	1,951447	up
			0,024211	5,944593	up
			0,024371	1,755307	up
Hydroxysteroid (17-beta) dehydrogenase 14	<i>HSD17B14</i>	51171	0,025164	3,931297	up
			0,025623	3,275036	up
			0,025727	4,125361	up
			0,025887	1,552031	up
			0,025996	2,000083	up
Uncharacterized LOC100130456	<i>LOC100130456</i>	1E+08	0,026393	1,983803	up
G protein-coupled receptor 97	<i>GPR97</i>	222487	0,026511	2,824848	up
Uncharacterized LOC647662	<i>FLJ40039</i>	647662	0,026526	2,107436	up
Transmembrane protein 95	<i>TMEM95</i>	339168	0,026556	3,561241	up
			0,026778	4,45116	up
			0,027275	2,168965	up
Hypocretin (orexin) receptor 1	<i>HCRTR1</i>	3061	0,027619	5,33884	up
			0,027874	3,193671	up
Uncharacterized LOC101927904	<i>LOC101927904</i>	1,02E+08	0,028493	2,395602	up
Family with sequence similarity 58, member	<i>FAM58A</i>	92002	0,028825	1,467101	up

A					
			0,028967	3,928592	up
			0,029020	2,34993	up
Amelotin	<i>AMTN</i>	401138	0,029223	2,846132	up
Olfactory receptor, family 5, subfamily K, member 3	<i>OR5K3</i>	403277	0,029511	4,581003	up
Somatostatin receptor 3	<i>SSTR3</i>	6753	0,030368	2,908905	up
			0,030977	3,079822	up
Fidgetin-like 2	<i>FIGNL2</i>	401720	0,031372	1,751026	up
			0,031425	2,530618	up
			0,035854	1,815287	up
			0,036590	3,700141	up
			0,036833	2,085615	up
			0,037362	3,192414	up
			0,038598	2,373773	up
Caspase 2, apoptosis-related cysteine peptidase	<i>CASP2</i>	835	0,038658	1,677372	up
Glypican 3	<i>GPC3</i>	2719	0,038663	2,696082	up
Tripartite motif containing 69	<i>TRIM69</i>	140691	0,039878	1,962936	up
Kinesin family member 22	<i>KIF22</i>	3835	0,040552	2,498761	up
			0,040617	3,404224	up
Crystallin, alpha A	<i>CRYAA</i>	1409	0,041594	2,816691	up
Chromosome 1 open reading frame 86	<i>C1orf86</i>	199990	0,042113	3,136256	up
			0,042147	1,695177	up
			0,042222	4,224479	up
Torsin family 3, member A	<i>TOR3A</i>	64222	0,043441	2,451433	up
			0,043683	2,477305	up
			0,044438	3,154107	up
			0,044631	5,261634	up
			0,045082	2,178412	up
			0,045371	3,377312	up

			0,046218	2,1257	up
			0,047035	2,642588	down
			0,047678	2,259237	up
			0,048503	1,805584	up
			0,048972	3,270831	up

Supplementary Table 4. List of genes with statistically significant changes when comparing the 75% dose with the control in MCF-10A cells.

Gene Name	Gene Symbol	Entrez Gene ID	p (Corr)	FC (abs)	Regulation
NIPA-like domain containing 4	<i>NIPAL4</i>	348938	0,000001	7,960696	down
RAB25, member RAS oncogene family	<i>RAB25</i>	57111	0,000007	8,869079	down
Nicotinamide nucleotide adenylyltransferase 3	<i>NMNAT3</i>	349565	0,000018	12,54522	down
			0,000062	7,089815	up
TIMP metalloproteinase inhibitor 1	<i>TIMP1</i>	7076	0,000064	3,720973	up
scellin	<i>SCEL</i>	8796	0,000066	9,65768	down
Interleukin 20 receptor, alpha	<i>IL20RA</i>	53832	0,000068	9,765781	down
SLAM family member 7	<i>SLAMF7</i>	57823	0,000084	3,049181	down
Cadherin 16, KSP-cadherin	<i>CDH16</i>	1014	0,000108	9,313539	up
Zymogen granule protein 16B	<i>ZG16B</i>	124220	0,000148	3,503649	up
Surfactant protein D	<i>SFTPD</i>	6441	0,000152	5,250017	down
Tripartite motif family-like 2	<i>TRIML2</i>	205860	0,000206	8,758449	down
Bone morphogenetic protein 7	<i>BMP7</i>	655	0,000231	11,61912	down
Flavin containing monooxygenase 4	<i>FMO4</i>	2329	0,000261	2,760516	down
Secretoglobin, family 1A, member 1 (uteroglobin)	<i>SCGB1A1</i>	7356	0,000273	17,83792	up
Pregnancy specific beta-1-glycoprotein 8	<i>PSG8</i>	440533	0,000301	6,726791	down
Cadherin 2, type 1, N-cadherin (neuronal)	<i>CDH2</i>	1000	0,000318	6,395336	up
Zinc finger protein 22	<i>ZNF22</i>	7570	0,000393	6,481421	down
Long intergenic non-protein coding RNA 1279	<i>LINC01279</i>	1,01E+08	0,000398	3,460807	down
CKLF-like MARVEL transmembrane domain	<i>CMTM7</i>	112616	0,000436	3,722159	up

containing 7					
Ectonucleoside triphosphate diphosphohydrolase 3	<i>ENTPD3</i>	956	0,000576	4,069419	down
Protein kinase domain containing, cytoplasmic	<i>PKDCC</i>	91461	0,000579	4,038083	down
Tumor necrosis factor receptor superfamily, member 11b	<i>TNFRSF11B</i>	4982	0,000598	4,007155	up
WD repeat domain 66	<i>WDR66</i>	144406	0,000633	2,989026	down
NLR family, pyrin domain containing 7	<i>NLRP7</i>	199713	0,000771	11,52648	down
SNAI3 antisense RNA 1	<i>SNAI3-AS1</i>	197187	0,000816	4,185736	up
DDB1 and CUL4 associated factor 12-like 2	<i>DCAF12L2</i>	340578	0,000922	13,39783	up
Long intergenic non-protein coding RNA 1133	<i>LINC01133</i>	1,01E+08	0,001123	2,406217	down
Family with sequence similarity 20, member A	<i>FAM20A</i>	54757	0,001136	7,595735	down
Interleukin 32	<i>IL32</i>	9235	0,001172	4,161881	down
Chemokine (C-X-C motif) receptor 4	<i>CXCR4</i>	7852	0,001225	15,76224	up
Chromosome 10 open reading frame 99	<i>C10orf99</i>	387695	0,001264	9,728003	down
			0,001279	3,504217	up
Long intergenic non-protein coding RNA 847	<i>LINC00847</i>	729678	0,001396	3,467294	down
SLIT and NTRK-like family, member 6	<i>SLITRK6</i>	84189	0,001405	4,521959	up
Anterior gradient 2	<i>AGR2</i>	10551	0,001418	5,48916	up
WNT1 inducible signaling pathway protein 2	<i>WISP2</i>	8839	0,001433	3,343308	down
Serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 2	<i>SERPINE2</i>	5270	0,001469	6,28035	up
Colony stimulating factor 3 (granulocyte)	<i>CSF3</i>	1440	0,001601	9,91829	up
Carbonic anhydrase VIII	<i>CA8</i>	767	0,001602	3,435826	up
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 8	<i>B3GNT8</i>	374907	0,001856	3,000906	down
Bone morphogenetic protein 7	<i>BMP7</i>	655	0,001914	8,627929	down
Trophinin associated protein	<i>TROAP</i>	10024	0,001962	4,142307	down
SPC24, NDC80 kinetochore complex component	<i>SPC24</i>	147841	0,001977	11,9954	down
Cytochrome P450, family 1, subfamily B, polypeptide 1	<i>CYP1B1</i>	1545	0,002023	2,421788	up

Kinesin family member 23	<i>KIF23</i>	9493	0,002043	7,46705	down
Dual oxidase maturation factor 1	<i>DUOXAI</i>	90527	0,002084	2,685646	down
Ets variant 7	<i>ETV7</i>	51513	0,002111	3,251378	down
Collagen, type IX, alpha 2	<i>COL9A2</i>	1298	0,002148	2,698013	down
Rho GTPase activating protein 4	<i>ARHGAP4</i>	393	0,002256	2,402147	up
Aldehyde oxidase 1	<i>AOX1</i>	316	0,002322	7,008415	down
Zinc finger protein 544	<i>ZNF544</i>	27300	0,002350	2,059633	up
Angiotensinogen (serpin peptidase inhibitor, clade A, member 8)	<i>AGT</i>	183	0,002360	4,396935	up
Sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3B	<i>SEMA3B</i>	7869	0,002540	2,765205	up
Monoglyceride lipase	<i>MGLL</i>	11343	0,002602	1,859759	down
CD40 molecule, TNF receptor superfamily member 5	<i>CD40</i>	958	0,002744	7,228445	down
Acyl-CoA oxidase 2, branched chain	<i>ACOX2</i>	8309	0,003078	6,502459	up
FIG4 homolog, SAC1 lipid Phosphatase domain containing (S, cerevisiae)	<i>FIG4</i>	9896	0,003108	2,346759	down
Trefoil factor 1	<i>TFF1</i>	7031	0,003174	3,810285	up
Proline-rich transmembrane protein 3	<i>PRRT3</i>	285368	0,003298	2,402727	up
Spleen tyrosine kinase	<i>SYK</i>	6850	0,003381	5,715505	down
Glutathione peroxidase 2 (gastrointestinal)	<i>GPX2</i>	2877	0,003509	3,443711	up
Junctophilin 2	<i>JPH2</i>	57158	0,003579	3,43435	down
Annexin A3	<i>ANXA3</i>	306	0,003582	3,45031	down
Secernin 1	<i>SCRNI</i>	9805	0,003676	2,164644	down
Cancer susceptibility candidate 5	<i>CASC5</i>	57082	0,003851	5,125872	down
Proline dehydrogenase (oxidase) 1	<i>PRODH</i>	5625	0,003866	2,352389	down
Retinoic acid early transcript 1E	<i>RAET1E</i>	135250	0,003966	2,636248	down
Dual oxidase maturation factor 1	<i>DUOXAI</i>	90527	0,004081	2,55103	down
KIAA1211-like	<i>KIAA1211L</i>	343990	0,004089	2,315354	down
Wilms tumor 1 interacting protein	<i>WTIP</i>	126374	0,004117	2,62852	down
Transmembrane BAX inhibitor motif containing 6	<i>TMBIM6</i>	7009	0,004128	2,024069	up

Interleukin 32	<i>IL32</i>	9235	0,004131	3,837059	down
Creatine kinase, brain	<i>CKB</i>	1152	0,004164	2,199694	down
Lactotransferrin	<i>LTF</i>	4057	0,004252	5,928874	up
Chloride intracellular channel 2	<i>CLIC2</i>	1193	0,004287	5,970284	down
Interleukin 22 receptor, alpha 1	<i>IL22RA1</i>	58985	0,004344	2,937221	down
Kinesin family member 20A	<i>KIF20A</i>	10112	0,004378	11,88861	down
C3 and PZP-like, alpha-2-macroglobulin domain containing 8	<i>CPAMD8</i>	27151	0,004427	2,519821	down
Kelch domain containing 7B	<i>KLHDC7B</i>	113730	0,004488	2,752908	up
			0,004935	4,686292	up
	<i>XLOC_014103</i>		0,005082	2,51272	down
Dispatched homolog 2 (Drosophila)	<i>DISP2</i>	85455	0,005085	2,533416	up
Kallikrein 1	<i>KLK1</i>	3816	0,005119	3,997859	down
Rho GTPase activating protein 19	<i>ARHGAP19</i>	84986	0,005281	4,071134	down
			0,005384	4,891783	up
Retinoic acid early transcript 1E	<i>RAET1E</i>	135250	0,005427	3,494154	down
Protocadherin beta 5	<i>PCDHB5</i>	26167	0,005457	4,518983	down
Chloride intracellular channel 3	<i>CLIC3</i>	9022	0,005534	3,322066	down
Fucosidase, alpha-L- 2, plasma	<i>FUCA2</i>	2519	0,005661	2,842028	down
Metastasis associated in colon cancer 1	<i>MACC1</i>	346389	0,005735	5,056881	down
Leucine-rich alpha-2-glycoprotein 1	<i>LRG1</i>	116844	0,005763	3,366579	down
Polo-like kinase 1	<i>PLK1</i>	5347	0,005790	7,102055	down
Long intergenic non-protein coding RNA 950	<i>LINC00950</i>	92973	0,006147	2,151301	down
Wingless-type MMTV integration site family, member 4	<i>WNT4</i>	54361	0,006464	2,959359	down
Fucosidase, alpha-L- 2, plasma	<i>FUCA2</i>	2519	0,006464	4,06311	down
Long intergenic non-protein coding RNA 1133	<i>LINC01133</i>	1,01E+08	0,006543	2,836799	down
Sushi domain containing 2	<i>SUSD2</i>	56241	0,006592	6,87268	up
			0,006627	2,076997	up
			0,006756	4,268734	up
			0,006839	7,581709	up

Transmembrane and coiled-coil domain family 3	<i>TMCC3</i>	57458	0,006976	2,081197	down
Prominin 2	<i>PROM2</i>	150696	0,006979	4,569709	down
Teneurin transmembrane protein 2	<i>TENM2</i>	57451	0,007032	12,57101	down
Long intergenic non-protein coding RNA 1279	<i>LINC01279</i>	1,01E+08	0,007364	2,727193	down
Chromosome 10 open reading frame 54	<i>CI0orf54</i>	64115	0,007603	2,150842	down
TIMP metalloproteinase inhibitor 3	<i>TIMP3</i>	7078	0,007749	2,352674	down
Ovo-like zinc finger 1	<i>OVOL1</i>	5017	0,007764	4,413896	down
Uncharacterized LOC727721	<i>LOC727721</i>	727721	0,007809	3,185968	up
Baculoviral IAP repeat containing 5	<i>BIRC5</i>	332	0,007986	7,535309	down
Long intergenic non-protein coding RNA 1279	<i>LINC01279</i>	1,01E+08	0,008050	2,742906	down
Ribonuclease, RNase A family, 7	<i>RNASE7</i>	84659	0,008246	2,820655	down
Cathelicidin antimicrobial peptide	<i>CAMP</i>	820	0,008317	13,37901	up
Chloride channel accessory 4	<i>CLCA4</i>	22802	0,008359	2,903465	down
ATP-binding cassette, sub-family C (CFTR/MRP), member 3	<i>ABCC3</i>	8714	0,008951	1,810955	up
Lipocalin 2	<i>LCN2</i>	3934	0,009119	1,86838	down
TRIO and F-actin binding protein	<i>TRIOBP</i>	11078	0,009144	2,274532	down
Folate receptor 3 (gamma)	<i>FOLR3</i>	2352	0,009549	2,896398	down
Serine peptidase inhibitor, Kazal type 5	<i>SPINK5</i>	11005	0,009556	3,472495	down
Cytochrome P450, family 2, subfamily B, polypeptide 6	<i>CYP2B6</i>	1555	0,009578	2,382124	up
SAM pointed domain containing ETS transcription factor	<i>SPDEF</i>	25803	0,009662	2,622721	up
Asp (abnormal spindle) homolog, microcephaly associated (Drosophila)	<i>ASPM</i>	259266	0,009686	11,27562	down
Nuclear receptor interacting protein 3	<i>NRIP3</i>	56675	0,009792	4,977468	down
Cadherin 2, type 1, N-cadherin (neuronal)	<i>CDH2</i>	1000	0,009868	7,945301	up
Non-specific cytotoxic cell receptor protein 1 homolog (zebrafish)	<i>NCCRP1</i>	342897	0,010107	3,170871	down
Zinc finger, MYND-type containing 15	<i>ZMYND15</i>	84225	0,010158	2,092411	down
Chitinase 3-like 1 (cartilage glycoprotein-39)	<i>CHI3L1</i>	1116	0,010201	3,396767	up
Pleckstrin homology domain containing, family	<i>PLEKHA6</i>	22874	0,010315	2,098277	down

A member 6					
CD40 molecule, TNF receptor superfamily member 5	<i>CD40</i>	958	0,010364	6,878093	down
Chromosome 17 open reading frame 107	<i>C17orf107</i>	1E+08	0,010485	2,497537	down
Receptor (chemosensory) transporter protein 4	<i>RTP4</i>	64108	0,010675	5,157435	down
Leucine rich repeat containing 61	<i>LRRC61</i>	65999	0,010756	7,018202	down
Sprouty homolog 1, antagonist of FGF signaling (Drosophila)	<i>SPRY1</i>	10252	0,010875	3,322169	up
Chemokine (C-X-C motif) ligand 3	<i>CXCL3</i>	2921	0,010876	4,652145	up
Chondrosarcoma associated gene 1	<i>CSAG1</i>	158511	0,011114	6,31668	down
Threonine synthase-like 2 (S, cerevisiae)	<i>THNSL2</i>	55258	0,011257	2,875206	down
Signal recognition particle receptor, B subunit	<i>SRPRB</i>	58477	0,011684	1,644617	up
Protein regulator of cytokinesis 1	<i>PRCI</i>	9055	0,011692	3,297882	down
Cell division cycle 20	<i>CDC20</i>	991	0,011730	5,669215	down
Notch 3	<i>NOTCH3</i>	4854	0,011784	2,974639	down
			0,011934	3,813391	up
Adenosine monophosphate deaminase 3	<i>AMPD3</i>	272	0,012724	2,744517	down
Thiosulfate sulfurtransferase (rhodanese)	<i>TST</i>	7263	0,013151	1,664614	up
S100 calcium binding protein A7A	<i>S100A7A</i>	338324	0,013431	3,005795	up
			0,014492	10,66466	up
WAP four-disulfide core domain 5	<i>WFDC5</i>	149708	0,014516	6,040941	down
Ankyrin repeat domain 2 (stretch responsive muscle)	<i>ANKRD2</i>	26287	0,015272	3,831912	down
HGF activator	<i>HGFAC</i>	3083	0,015314	2,835064	up
Uncharacterized LOC400043	<i>LOC400043</i>	400043	0,015570	1,875256	down
PDZ and LIM domain 1	<i>PDLIM1</i>	9124	0,015662	1,909482	down
Calcyphosine	<i>CAPS</i>	828	0,016200	2,74398	up
Myosin, light chain 7, regulatory	<i>MYL7</i>	58498	0,016286	14,03443	down
Dual specificity phosphatase 6	<i>DUSP6</i>	1848	0,016347	2,567259	up
Tripartite motif containing 37	<i>TRIM37</i>	4591	0,016546	2,540424	down
Fascin actin-bundling protein 2, retinal	<i>FSCN2</i>	25794	0,016794	3,821914	up

Anillin, actin binding protein	<i>ANLN</i>	54443	0,017237	8,519768	down
Phosphatidic acid phosphatase type 2 domain containing 1A	<i>PPAPDC1A</i>	196051	0,017393	2,401097	up
Glutamate-rich 5	<i>ERICH5</i>	203111	0,017431	2,600416	down
Keratin 8	<i>KRT8</i>	3856	0,017955	2,00384	up
Cystathionine-beta-synthase	<i>CBS</i>	875	0,018014	2,09532	down
Pregnancy specific beta-1-glycoprotein 2	<i>PSG2</i>	5670	0,018949	9,516424	down
HECT and RLD domain containing E3 ubiquitin protein ligase 5	<i>HERC5</i>	51191	0,019211	3,520264	down
IQ motif containing GTPase activating pro. 3	<i>IQGAP3</i>	128239	0,019254	3,42256	down
Integrin, beta 7	<i>ITGB7</i>	3695	0,019420	2,007009	up
Carcinoembryonic antigen-related cell adhesion molecule 6 (non-specific cross reacting antigen)	<i>CEACAM6</i>	4680	0,020417	4,636418	down
Acyl-CoA synthetase medium-chain family member 1	<i>ACSM1</i>	116285	0,020733	3,421355	down
Fatty acid desaturase 2	<i>FADS2</i>	9415	0,020869	2,167588	up
Matrix metalloproteinase 1 (interstitial collagenase)	<i>MMP1</i>	4312	0,021157	9,879938	up
Aspartate beta-hydroxylase domain contain. 1	<i>ASPHD1</i>	253982	0,021543	1,722238	up
Aldo-keto reductase family 1, member B10 (aldose reductase)	<i>AKR1B10</i>	57016	0,021732	3,072489	up
Membrane metallo-endopeptidase	<i>MME</i>	4311	0,021933	1,957294	down
SRY (sex determining region Y)-box 15	<i>SOX15</i>	6665	0,022017	1,740532	down
Heat shock 22kDa protein 8	<i>HSPB8</i>	26353	0,022769	7,994072	down
Periplakin	<i>PPL</i>	5493	0,022878	2,106786	down
			0,022883	5,096384	up
Arylsulfatase A	<i>ARSA</i>	410	0,023785	2,875455	up
Receptor (G protein-coupled) activity modifying protein 1	<i>RAMP1</i>	10267	0,024057	3,49036	down
Inositol hexakisphosphate kinase 2	<i>IP6K2</i>	51447	0,024934	1,655225	up
Secreted frizzled-related protein 1	<i>SFRP1</i>	6422	0,025087	2,626554	up
CysteinyI-tRNA synthetase 2, mitochondrial (putative)	<i>CARS2</i>	79587	0,025595	1,612448	down

SLIT and NTRK-like family, member 6	<i>SLITRK6</i>	84189	0,025646	4,81784	up
STEAP family member 3, metalloreductase	<i>STEAP3</i>	55240	0,025753	1,816943	up
Proline rich Gla (G-carboxyglutamic acid) 4 (transmembrane)	<i>PRRG4</i>	79056	0,025934	1,816361	down
Receptor accessory protein 2	<i>REEP2</i>	51308	0,026129	2,268669	up
Follistatin-like 1	<i>FSTL1</i>	11167	0,026219	1,571096	down
			0,026706	4,685507	up
Interferon induced transmembrane protein 10	<i>IFITM10</i>	402778	0,027015	2,480655	up
TraB domain containing 2A	<i>TRABD2A</i>	129293	0,027382	1,636859	down
Contactin 3 (plasmacytoma associated)	<i>CNTN3</i>	5067	0,027742	7,342541	down
			0,027916	2,363325	up
Centrosomal protein 55kDa	<i>CEP55</i>	55165	0,028076	10,40776	down
Family with sequence similarity 27, member C	<i>FAM27C</i>	1E+08	0,028091	1,903888	up
Family with sequence similarity 174, member B	<i>FAM174B</i>	400451	0,028227	3,273125	down
Growth differentiation factor 11	<i>GDF11</i>	10220	0,028449	2,693452	up
Pregnancy-associated plasma protein A, pappalysin 1	<i>PAPPA</i>	5069	0,028642	1,792312	up
Cathepsin A	<i>CTSA</i>	5476	0,028930	1,874394	up
Transmembrane protein 255B	<i>TMEM255B</i>	348013	0,029010	2,914184	up
Ankyrin repeat domain 33B	<i>ANKRD33B</i>	651746	0,029194	4,807756	down
			0,029385	3,233685	up
ATP-binding cassette, sub-family A (ABC1), member 1	<i>ABCA1</i>	19	0,029544	4,64782	down
Kinesin family member 23	<i>KIF23</i>	9493	0,031251	4,046312	down
Apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3B	<i>APOBEC3B</i>	9582	0,031362	3,718181	down
Melanoma cell adhesion molecule	<i>MCAM</i>	4162	0,031631	2,16279	down
Solute carrier family 16 (monocarboxylate transporter), member 7	<i>SLC16A7</i>	9194	0,031767	2,75797	down
Adrenergic, beta, receptor kinase 2	<i>ADRBK2</i>	157	0,031819	2,393875	down
Matrix metalloproteinase 15 (membrane-inserted)	<i>MMP15</i>	4324	0,032131	2,350126	up

			0,032301	7,121972	up
POU class 2 associating factor 1	<i>POU2AF1</i>	5450	0,032329	6,138471	down
Coiled-coil domain containing 136	<i>CCDC136</i>	64753	0,032468	1,6219	up
Methionine adenosyltransferase I, alpha	<i>MAT1A</i>	4143	0,032486	4,144592	down
Thymidine kinase 1, soluble	<i>TK1</i>	7083	0,032513	4,898526	down
Purinergic receptor P2Y, G-protein coupled, 2	<i>P2RY2</i>	5029	0,032707	1,85917	down
Latexin	<i>LXN</i>	56925	0,032790	2,555091	up
Slit homolog 3 (Drosophila)	<i>SLIT3</i>	6586	0,033294	2,287359	up
Extracellular matrix protein 1	<i>ECM1</i>	1893	0,033453	1,800824	up
Aldo-keto reductase family 1, member B10 (aldose reductase)	<i>AKR1B10</i>	57016	0,033875	3,05768	up
Leprecan-like 2	<i>LEPREL2</i>	10536	0,034045	2,314673	up
Transforming growth factor beta 1 induced transcript 1	<i>TGFB111</i>	7041	0,034391	2,485676	down
Chemokine (C-X-C motif) ligand 16	<i>CXCL16</i>	58191	0,034610	1,894614	down
Mab-21 domain containing 2	<i>MB21D2</i>	151963	0,034711	2,455051	down
Serine peptidase inhibitor, Kazal type 5	<i>SPINK5</i>	11005	0,035690	4,932097	down
Family with sequence similarity 49, member A	<i>FAM49A</i>	81553	0,035742	2,188897	down
Uncharacterized LOC100130547	<i>LOC100130547</i>	1E+08	0,036221	2,728018	up
Dual adaptor of phosphotyrosine and 3-phosphoinositides	<i>DAPP1</i>	27071	0,036232	2,284145	down
Prominin 2	<i>PROM2</i>	150696	0,036493	3,81298	down
MGC72080 pseudogene	<i>MGC72080</i>	389538	0,036890	2,025627	up
Alpha-2-macroglobulin-like 1	<i>A2ML1</i>	144568	0,036998	8,098412	down
Growth factor receptor-bound protein 14	<i>GRB14</i>	2888	0,037928	3,045693	up
Usher syndrome 1G (autosomal recessive)	<i>USH1G</i>	124590	0,038390	2,347513	down
Endogenous retrovirus group MER34, member 1	<i>ERVMER34-1</i>	1E+08	0,039192	2,278576	down
			0,039545	5,823081	up
Olfactory receptor, family 7, subfamily E, member 37 pseudogene	<i>OR7E37P</i>	1,01E+08	0,039706	1,794519	up
Ubiquitin specific peptidase 31	<i>USP31</i>	57478	0,039813	1,860685	down

CD33 molecule	<i>CD33</i>	945	0,040553	5,174801	down
Follistatin	<i>FST</i>	10468	0,040642	2,127417	up
Sulfiredoxin 1	<i>SRXN1</i>	140809	0,041175	1,549074	up
Interleukin 1 receptor antagonist	<i>IL1RN</i>	3557	0,041393	4,139621	down
Zinc finger protein 750	<i>ZNF750</i>	79755	0,041592	4,692174	down
	<i>XLOC_014103</i>		0,041673	2,726026	down
BUB1 mitotic checkpoint serine/threonine kinase B	<i>BUB1B</i>	701	0,041777	8,839135	down
Tumor necrosis factor receptor superfamily, member 10c, decoy without an intracellular domain	<i>TNFRSF10C</i>	8794	0,041973	3,707309	down
Myotubularin related protein 1	<i>MTMRI</i>	8776	0,043071	1,810227	down
Neurofascin	<i>NFASC</i>	23114	0,043089	2,050507	down
			0,043416	7,238473	up
Ring finger protein 39	<i>RNF39</i>	80352	0,046165	2,62616	down
Centromere protein F, 350/400kDa	<i>CENPF</i>	1063	0,047339	4,630872	down
Fc fragment of IgG binding protein	<i>FCGBP</i>	8857	0,047341	4,419091	up
ADAM metallopeptidase domain 8	<i>ADAM8</i>	101	0,047436	2,210268	up
Bradykinin receptor B1	<i>BDKRB1</i>	623	0,047453	2,157306	down
ADAMTS-like 4	<i>ADAMTSL4</i>	54507	0,048012	2,071963	up
Aldo-keto reductase family 1, member B15	<i>AKR1B15</i>	441282	0,049215	2,563593	up
Protocadherin beta 2	<i>PCDHB2</i>	56133	0,049240	2,377532	down
Kelch domain containing 7B	<i>KLHDC7B</i>	113730	0,049382	2,670322	up
ATPase, class V, type 10B	<i>ATP10B</i>	23120	0,049883	2,400413	down