

Gene Expression in MCF10A cells through Differentiation on Transwells

Organism(s): *Homo sapiens*

Array Design(s): Affymetrix GeneChip Human Genome U133 Plus 2.0 [HG-U133\_Plus\_2]

Reference(s): 19005683

Gene query ?

(all genes)

Exact match

up

down

up/down

Contrast ?

(any contrasts)

Specific ?

Adjusted p-value cutoff ?

0.05

Log<sub>2</sub> fold change cutoff ?

1.0

Search

Reset

Ensembl Genome Browser

Open

Showing 50 of 4186 genes found:

Display log<sub>2</sub>-fold change

MA

GSE 1270

GSE 1270

GSE 1270

Gene	Design Element	mid transepithel...	low transepithel...	Adjusted p-value	t-statistic	Log <sub>2</sub> -fold change
ANGPTL4	223333_s_at					
ANGPTL4	221009_s_at					
MMP13	205959_at					
MALAT1	224568_x_at					
ZFP36L2	201367_s_at					
WDR1	210935_s_at					
SYNPO2	227662_at					
IL11	206924_at					
RERG	227758_at					
SH3GLB2	218813_s_at					
B3GALT5	206947_at					
IL33	209821_at					
PPARGC1B	232181_at					
SLC1A1	213666_at					
CD36	209555_at					
CTD-2003C8.2	155986_at					
VHL	155926_at					
CLIC2	213416_at					
SYNPO2	225896_at					
IDUA	205055_at					
HAS2	206432_at					
CCDC18	222362_at					
PTPRB	230250_at					
MTHFD2L	220346_at					

Adjusted p-value

t-statistic

Log<sub>2</sub>-fold change

0.02

-3.47

-1.68

SLC1A1 (EAAC1 EAAT3 ENSG00000106688)

Gene ontology terms: D-aspartate import L-glutamate import L-glutamate transmembrane transporter activity L-glutamate transport dicarboxylic acid transport glutamate binding glutamate:sodium symporter activity integral to plasma membrane ion transport membrane plasma membrane protein binding protein homooligomerization sodium:dicarboxylate symporter activity synaptic transmission transmembrane transport

Interpro terms: Sodium:dicarboxylate symporter

Search with gene attributes, e.g. gene symbols or annotations

Select contrasts to see results for

Choose an adjusted p-value cutoff

Choose a log<sub>2</sub> fold-change cutoff

See more info and download data using the buttons

Click to see exact log<sub>2</sub> fold-changes in heatmap

Select a gene and a contrast to visualise at Ensembl

Coloured boxes mean genes differentially expressed. Mouseover a box to see statistics for a gene.

Mouseover a gene to see GO and Interpro terms. Click a gene for more detailed information.

Greater colour intensity means larger absolute log<sub>2</sub> fold-change

Download all statistics

Click to see MA plot and gene set enrichment summaries

MA plot

low transepithelial electrical resistance' vs 'monolayer control'

log<sub>2</sub>(fold change)

Top 10 GO terms enriched in 'low transepithelial electrical resistance' vs 'monolayer control' (fisher, non-directional, FDR < 0.05)

cytoplasm

nucleus

integral to membrane

transcription

plasma membrane

transmembrane

transmembrane protein

transmembrane protein

transmembrane protein

transmembrane protein

Top 10 Reactome pathways enriched in 'low transepithelial electrical resistance' vs 'monolayer control' (fisher, non-directional, FDR < 0.05)

Activation of gene expression

Polo-like kinase mediated

Transcriptional activation

Top 10 InterPro domains enriched in 'low transepithelial electrical resistance' vs 'monolayer control' (fisher, non-directional, FDR < 0.05)

Zinc finger, C2H2-like

Zinc finger, C2H2

P-loop containing nucleoside