### 185 Upregulated genes

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myogenic differentiation 1

RIKEN cDNA 2810043G13 gene

cathepsin W
CD79A antigen (immunoglobulin-associated alpha)
solute carrier family 16 (monocarboxylic acid transporters), member 3

N-acetylated alpha-linked acidic dipeptidase 2
solute carrier family 5 (sodium/glucose cotransporter), member 9
similar to KAT protein

liver glycogen phosphorylase
<table>
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<tr>
<th>Gene_Sym</th>
<th>Gene_Name</th>
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<tr>
<td>Ssa2</td>
<td>Sjogren syndrome antigen A2</td>
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<td>4930486G11</td>
<td>RIKEN cDNA 4930486G11 gene</td>
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<td>1700052K11</td>
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<td>Refbp2</td>
<td>RNA and export factor binding protein 2</td>
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<td>Tirap</td>
<td>toll-interleukin 1 receptor (TIR) domain-containing adaptor protein</td>
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<td>Defb13</td>
<td>defensin beta 13</td>
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<td>Es31</td>
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<td>Nap1l5</td>
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<td>Olf1270</td>
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<td>Vmd2</td>
<td>vitelliform macular dystrophy 2 homolog (human)</td>
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<td>Hoxc6</td>
<td>homeo box C6</td>
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<td>C130086A10</td>
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<td>Cpne5</td>
<td>copine V</td>
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<td>Prpf39</td>
<td>PRP39 pre-mRNA processing factor 39 homolog (yeast)</td>
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<td>Prr3</td>
<td>proline-rich polypeptide 3</td>
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<td>Olf360</td>
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<td>Gopc</td>
<td>golgi associated PDZ and coiled-coil motif containing</td>
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<td>Arrdc5</td>
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<td>St6galna2cST6</td>
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<td>Adrb2</td>
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<td>Slc15a1</td>
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<td>Cggbp1</td>
<td>CGG triplet repeat binding protein 1</td>
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<td>Smad1</td>
<td>MAD homolog 1 (Drosophila)</td>
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<td>Ifngr2</td>
<td>interferon gamma receptor 2</td>
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<td>Fadd</td>
<td>Fas (TNFRSF6)-associated via death domain</td>
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4732496O:RIKEN cDNA 4732496O08 gene

2310067E:RIKEN cDNA 2310067E08 gene
A230050P:RIKEN cDNA A230050P20 gene
D330017J:RIKEN cDNA D330017J20 gene
Ren1  renin 1 structural

Si      silver
Cdh4    cadherin 4
Magea8  melanoma antigen, family A, 8
Mtm1    X-linked myotubular myopathy gene 1
Klf2b   kinesin family member 2B
Zfpn1a3 zinc finger protein, subfamily 1A, 3 (Aiolos)

4931433E:RIKEN cDNA 4931433E08 gene
C330005M:RIKEN cDNA C330005M16 gene

na      gene model 526, (NCBI)
Cyr61   cysteine rich protein 61

Gpatc3  G patch domain containing 3
8030462N:RIKEN cDNA 8030462N17 gene
Txndc1  thioredoxin domain containing 1
Nkiras2 NFkB inhibitor interacting Ras-like protein 2

2410080H:RIKEN cDNA 2410080H04 gene
4933406J:RIKEN cDNA 4933406J08 gene
Zfp264  zinc finger protein 264
Atp5g1  ATP synthase, H+ transporting, mitochondrial F0 complex, subunit c (subunit 9), isoform 1
Zik1    zinc finger protein interacting with K protein 1
Chad    chondroadherin
9630050M:RIKEN cDNA 9630050M13 gene
Slc16a13 solute carrier family 16 (monocarboxylic acid transporters), member 13
Olfrr110 olfactory receptor 110
Zfp386  zinc finger protein 386 (Kruppel-like)
2610016C:RIKEN cDNA 2610016C23 gene

Camk1d calcium/calmodulin-dependent protein kinase ID
Sgpl1   sphingosine phosphate lyase 1

E430034L:RIKEN cDNA E430034L04 gene
na      similar to TATA box-binding protein-associated factor, RNA polymerase II, K, 18kD
Stambp Stam binding protein
2610009I:RIKEN cDNA 2610009I02 gene

Cct6b  chaperonin subunit 6b (zeta)
Cask calcium/calmodulin-dependent serine protein kinase (MAGUK family)

Krtap13-1 keratin associated protein 13-1

na similar to RIKEN cDNA 2600013N14

Apom apolipoprotein M

Ndufa4 NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4

Nck1 non-catalytic region of tyrosine kinase adaptor protein 1

9630046K:RIKEN cDNA 9630046K23 gene

Mjd Machado-Joseph disease (spinocerebellar ataxia 3, olivopontocerebellar ataxia 3, autosomal

Slc30a7 solute carrier family 30 (zinc transporter), member 7

Gem GTP binding protein (gene overexpressed in skeletal muscle)

Pak6 p21 (CDKN1A)-activated kinase 6

Dclre1b DNA cross-link repair 1B, PSO2 homolog (S. cerevisiae)

Pet112l PET112-like (yeast)

na gene model 719, (NCBI)

6530411B1RIKEN cDNA 6530411B15 gene

9630015D:RIKEN cDNA 9630015D15 gene

Ppt1 palmitoyl-protein thioesterase 1

Wars tryptophanyl-tRNA synthetase

D330012D RIKEN cDNA D330012D11 gene

Slc35a3 solute carrier family 35 (UDP-N-acetylglucosamine (UDP-GlcNAc) transporter), member 3

Golga5 golgi autoantigen, golgin subfamily a, 5

AU044757 expressed sequence AU044757

Fbxo17 F-box protein 17

Rfwd2 ring finger and WD repeat domain 2

Oflr1350 olfactory receptor 1350

Nt5c2i 5'-nucleotidase, cytosolic II-like 1

Syt1 synaptotagmin-like 1

9030420J:RIKEN cDNA 9030420J04 gene

D330050I2 RIKEN cDNA D330050I23 gene

Golga5 golgi autoantigen, golgin subfamily a, 5

MGC67181Unknown (protein for MGC:67181)

2010004A:RIKEN cDNA 2010004A03 gene

Dner delta/notch-like EGF-related receptor

Cth cystathionase (cystathionine gamma-lyase)

Stau2 staufen (RNA binding protein) homolog 2 (Drosophila)

Suox sulfite oxidase

Cd38 CD38 antigen
ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 6
Machado-Joseph disease (spinocerebellar ataxia 3, olivopontocerebellar ataxia 3, autosomal dominant, ataxin 3) homolog (human)
## Genes Upregulated during Nulli-SCC Differentiation

### Biological Process

<table>
<thead>
<tr>
<th>Biological Process</th>
<th>Count</th>
<th>P-Value</th>
<th>Benjamini</th>
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<tbody>
<tr>
<td>Cell surface receptor linked signal transduction</td>
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<td>7.80E-01</td>
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<tr>
<td>Multicellular organismal process</td>
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<td>9.50E-01</td>
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<td>Sensory perception of smell</td>
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<td>1.50E-02</td>
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<tr>
<td>G-protein coupled receptor protein signaling pathway</td>
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<tr>
<td>Sensory perception of chemical stimulus</td>
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<td>2.20E-02</td>
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<td>Neurological system process</td>
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<td>Generation of precursor metabolites and energy</td>
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<td>Sensory perception</td>
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<td>Glucose metabolic process</td>
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<td>Cognition</td>
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<td>Signal transduction</td>
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### Molecular Function

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<tr>
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<td>Signal transducer activity</td>
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<td>Receptor activity</td>
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<td>G-protein coupled receptor activity</td>
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<td>Olfactory receptor activity</td>
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<td>Vitamin binding</td>
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<td>Oxidoreductase activity, acting on the CH-NH2 group of donors, oxygen</td>
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<td>RNA polymerase II transcription factor activity, enhancer binding</td>
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Genes Downregulated during Nulli-SCC Differentiation

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<th>Biological Process</th>
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<td>Localization</td>
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<td>Cellular process</td>
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<tr>
<td>Regulation of cell growth</td>
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<td>Positive regulation of developmental growth</td>
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<td>Transport</td>
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<td>Establishment of localization</td>
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<td>Regulation of systemic arterial blood pressure mediated by a chemical signal</td>
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No Pathway Associations
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