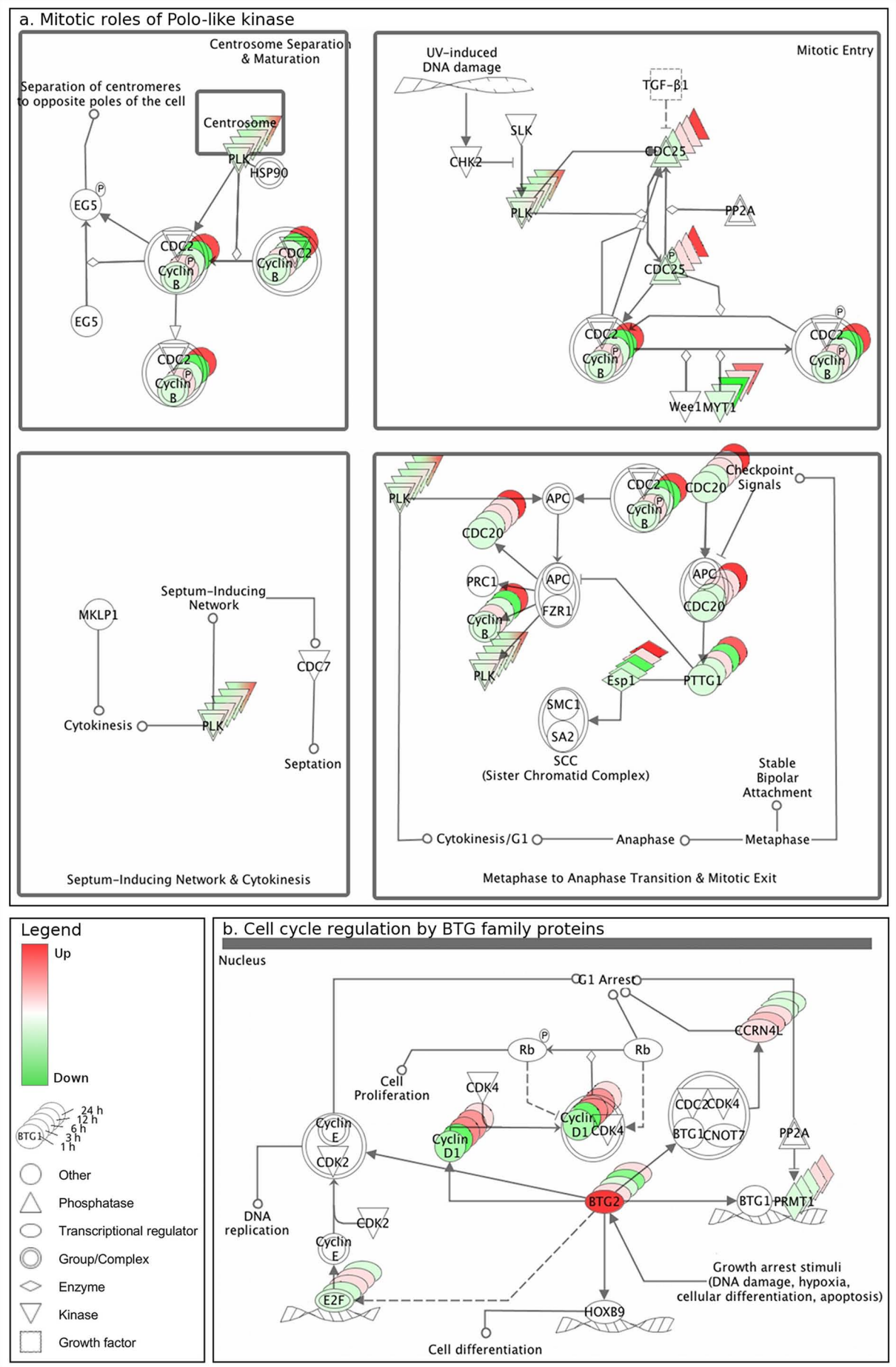
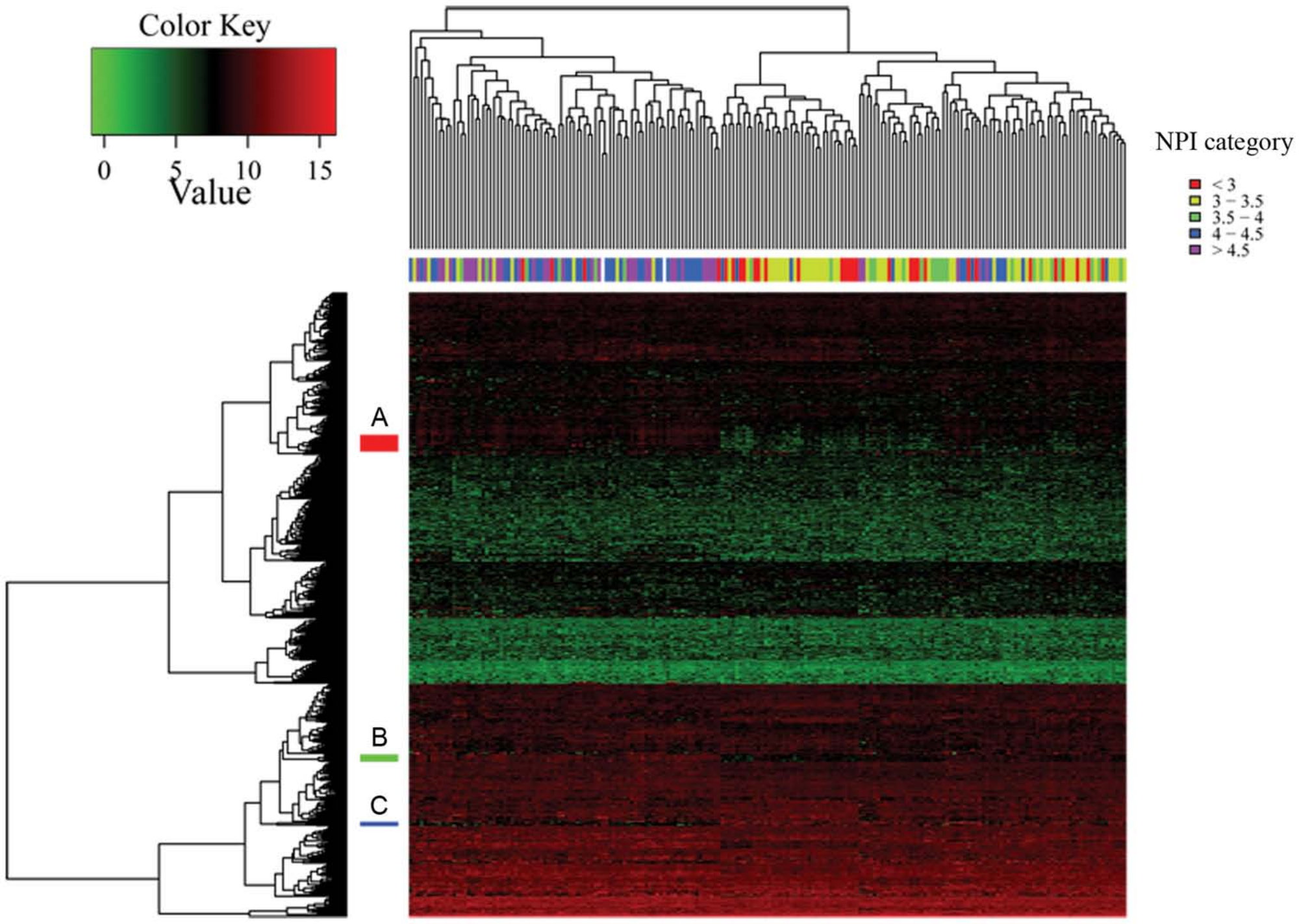

a. Mitotic roles of Polo-like kinase
Centrosome Separation & Maturation
Separation of centromeres to opposite poles of the cell
Centrosome
PLK
HSP90
EG5
CDC2
Cyclin B
Mitotic Entry
UV-induced DNA damage
TGF-β1
SLK
CHK2
CDC25
PLK
PP2A
Wee1
MYT1
Septum-Inducing Network
MKLP1
CDC7
Cytokinesis
Septation
Septum-Inducing Network & Cytokinesis
Checkpoint Signals
APC
CDC20
PRC1
FZR1
Esp1
PTTG1
SMC1
SA2
SCC
(Sister Chromatid Complex)
Stable Bipolar Attachment
Cytokinesis/G1
Anaphase
Metaphase
Metaphase to Anaphase Transition & Mitotic Exit
Legend
Up
Down
24 h
12 h
6 h
3 h
1 h
BTG1
Other
Phosphatase
Transcriptional regulator
Group/Complex
Enzyme
Kinase
Growth factor
b. Cell cycle regulation by BTG family proteins
Nucleus
G1 Arrest
CCRN4L
Rb
Cell Proliferation
CDK4
Cyclin D1
Cyclin E
CDK2
CDC2
CNOT7
PP2A
BTG2
BTG1
PRMT1
DNA replication
E2F
HOXB9
Growth arrest stimuli (DNA damage, hypoxia, cellular differentiation, apoptosis)
Cell differentiation


Color Key
0
5
10
15
Value
NPI category
< 3
3 – 3.5
3.5 – 4
4 – 4.5
> 4.5
A
B
C

Supplemental Figure legends

Supplemental Figure 1. Pathways associated with the most significantly altered FGF-8b-regulated genes. a) Mitotic roles of Polo-like kinase. b) Cell cycle regulation by BTG family proteins. Gene expression is shown at 1, 3, 6, 12 and 24 hours of FGF-8b treatment. Up regulated genes are depicted in red and down regulated genes are depicted in green.

Supplemental Figure 2. Hierarchical clustering of human orthologs of FGF-8 regulated genes and human breast cancer samples. Clustering of 592 human probe sets (vertical) with 198 human breast cancer samples (horizontal) revealed three gene sets (A-C) which showed differential expression between two main patient clusters. The NPI category of each tumor sample is indicated on the right.

Supplemental Table 1. Mouse and human primer sequences used for quantitative PCR *analysis.*

Gene	*Forward primer (5'→3')*	*Reverse primer (5'→3')*
Mouse		
Cyclin D1	CCTCCGTATCTTACTTCAAGT	AATGAACTTCACATCTGTGGC
Btg2	ACTGACCGATCATTACAAACAC	CTCATACAGGACACAGATGG
Dusp4	GAAATCCTCCCTTTCCTCTACC	CTTTACTGCGTCGATGTACTC
Cyclin B1	GTGAATGGACACCAACTCTG	CAGATGTAGCAGTCTATTGGAG
Aurora kinase A	AACAGCTACTTACATCACTGAG	GTCTGCAATCTTCAACTCTCC
Plk1	GTATTCCCAAGCACATCAACC	GTGAGGCAGGTAATAGGGAG
β-actin	GGGCCGCCCTAGGCACCA	TTGGCCTTAGGGTTCAGGGGG
Human		
Cyclin D1	CCTCTAAGATGAAGGAGACCA	AAATGAACTTCACATCTGTGGC
BTG2	TAAGGTCTTCAGCGGGGCGCT	AGCAGCACTTGGTTCTTGCAGGTGA
DUSP4	CTGGTTCATGGAAGCCATAGAGT	CGCCCACGGCAGTCC
Cyclin B1	ATAAGGCGAAGATCAACATGGC	TTTGTTACCAATGTCCCCAAGAG
Aurora kinase A	CTGCATTTCAGGACCTGTTAAGG	AACGCGCTGGGAAGAATTT
PLK1	GTATTCCCAAGCACATCAACC	TAGCCAGAAGTAAAGAACTCGT
β-actin	GGGCCGCCCTAGGCACCA	TTGGCCTTAGGGTTCAGGGGG

Supplemental Table S2. Up- and d

Upregulated genes after 1h

Gene symbol
Pcdh20
Fos
Gm1966
Egr1

Downregulated genes after 1h

Gene Symbol
Nos2
Nos2
Rnpep
Gm1960
Icam1

Upregulated genes after 3h

Gene symbol
Areg
Errfi1
Phlda1
Zfp36l2
Ier3
Plk3
Ptgs2
Dusp4
Lif
Epha2
Sgk
Hbegf
Fosl1
Cyr61
Myc
Efnb2
Maff
Tgif
Ccrn4l
Tgif
Trib2
BC063749
Klf6
Tead4
Plaur
Gprc5a

Ier2
Frmd6
Ier5
Btg1
Fgf7
Abtb2
Arl4c
Kcnn4
Ccl2
Bhlhb2
Tcrb-V13
Hk2
Ankrd1
Slc25a37
Il17ra
Ccl7
Id3
Shb
Irf2bp2
Vps37b
Dusp16
Rap2b
Ifrd1
Jmjd3
Rbpsuh
Apcdd1
Lrig1
Mafk
Chst2
Pim3
Junb
Mcl1
Slc39a14
Myo10
Cd300lb
Slpi
Emp1
Mobkl2a
Bat2d
Slc20a1
Ahnak
Wsb1
Chrac1
Bat2d
Twist1

Sh3pxd2b
Ahnak
Nedd9
Bat2d
Serpine1

Downregulated genes after 3h

Gene symbol
Rgma
Rnpep
Cdc42ep2
Gadd45b
Cbx8
Hist1h1a
Saa3
Smad6
Plekhf1
Adrb2
Rassf7
Plekhg5
Klhdc7a
Zbtb7c
Saa2
Pgpep1
Rpusd3
Sertad3
Hist1h2af
Zfp219
Klhl25

Upregulated genes after 6h

Gene symbol
Emp1
Dusp4
Glrx
Ccnd1
Ptgs2
Epha2
Phlda1
Gprc5a
Ier3
Apcdd1
Parvb
Ccl20
Plaur

Lif
Plk3
Tcrb-V13
Sgk
Ankrd1
Apcdd1
Amotl1
Timm8a1
Pim3
Twist1
Zfp36l2
Phc2
Rbpsuh
Slc20a1
Syde1
Cxcl1
Slc39a14
Sat1
Tnnt2
Tead4
Rin1
Irg1
Rrm2
Pdlim2
Ext1
Rap1b
Ddit4l

Downregulated genes after 6h

Gene symbol
Epn3
AI646023
Bcl9l
Foxq1
Acpl2
Mgp
Mknk2
Bhlhb3
Abcc3
Ddit4
Saa2
Mgat3
Plxnd1
Ddr1

Arrb1
Fzd2
Cdc42ep2
St5
Mcpt8
Efnb1
Tmem158
Camk1d
C1qtnf1
Trib3
Mxd4
Sox9
Limk2
Atf3
Stat5a
St3gal3
Olfr32
Ndrg1
Cacnb3
Arhgef10l

Upregulated genes after 12h

Gene symbol
Dusp4
Tnfaip2
Spry1
Phlda1
Ccnd1
Apcdd1
Gprc5a
Apcdd1
Ier3
Arhgap22
Areg
Emp1
Myc
Ptgs2
Hmga1
Parvb
Epha2
Eps8
Eps8
Dusp9
Kcnn4
Sdc4

Map3k6
Fgfr1
Unc5b
Zfp36l2
Plaur
Chst2
Errfi1
Slc25a37
Spp1
Slc7a11
Phc2
Cdc6
Slc7a11
Ifrd1
BC063749
Mtm1
Fah
Slc39a14
Csf1
Cxcl1
Tnfrsf12a
Dctd
Rapgef3
Nrp1
Lrp8
Klf5
Pim3
Nav3
Id1
Tinagl
Wnt7b
E2f8
Mcm10
Hivep3
Ldlrap1
Ngfb
Lrp8
Itga3
Rbms1
Sgk
Shmt1
Stc2
Prkar2b
Itga6
Tead4

Plk2
Shb
Cyr61
Zfpm1
Tcrb-V13
Hist1h2bp
Rbpsuh
Il4ra
Efnb2

Downregulated genes after 12h

Gene symbol
Nfatc4
Sesn3
Jmjd2b
AI662250
Rab3a
Ndrg1
Gpd1l
Aldh4a1
Plekhg5
D9Ertd280e
Atp2b4
C3
Scx
Sord
Cdon
Tle6
Dcamkl1
Sox9
Fgfr2
Wdr6
Gprc5b
Rnpep
Acot1
Ptch1
Ndrg1
Hbp1
Cpt1a
Acox2
Ddr1
Arrb1
Gas7
Ypel3
Bhlhb3

Ephb6
Nuak1
Hbp1
Klhdc8a
Slc2a6
Vdr
Fosl2
Saa2
AU041783
Rhob
Mapre3
Trp53inp2
Nos2
Tmem53
Ephb6
Arhgef19
Gpr56
Dbp
Ddit4
Abcc3
Nos2
Ypel3
Tmie
Gm967
Aldh1l1
BC025575
Rcvrn
Sox4
Adra1b
Cyp26b1
Klc4
Acpl2
Prelp
Cdc42ep2
Arvcf
Ehd3
Limk2
Selenbp1
Selenbp2
Saa3
AI646023
Foxq1
Ggt6
Steap4
Steap4

C1qtnf1
Mxd4

Upregulated genes after 24h

Gene symbol
Mrpplf4
Plf
Emp1
Slco4a1
Sgol1
Arhgap11a
Id1
Fosl1
Arhgap19
Areg
Dusp6
Birc5
Pou2af1
Sema6b
Gsta1
Mmp9
Ccna2
Ncapg
Bard1
Kif14
Espl1
D2Ertd750e
Nek2
Cenpa
Hmmr
Ckap2l
Anln
D17H6S56E-5
Cenpm
Aurka
Cdca3
Nusap1
Rrm2
Gins1
Fancd2
Recql4
Troap
Mybl2
BC030867
Ccnb1

Hist1h2bp
Eme1
Tacc3
Hirip3
Plk4
Ccnb2
Cdc25b
Kif22
Cdc25c
Slc7a11
Traip
Plk1
Kifc1
Cenpm
Exo1
Kif23
Chtf18
Spry1
Cks2
Fbxo5
Cdca2
Lipg
Dusp4
Kif2c
Mtm1
Spag5
Hist1h3g
BC048355
Pttg1
Cdca8
Rad54l
E2f8
Ncapd2
Spn
Brip1
9530076L18
Pole
Hist1h1d
Trim24
Arntl2
Aurkb
Slc11a1
Hist1h2bk
Hist1h2ao
Cdc6

Mad2l1
Incenp
Slc14a1
Cxcl10
BC048355
Rfc5
Ckap2
Uhrf1
Rfc4
Top2a
Ncapd2
Hist1h2bp
Aldh3a1
Cenph
Hist1h2af
Fignl1
Iqgap3
Rad51
Pmf1
Spp1
Pkmyt1
Stmn1
Chaf1a
Bub1b
Cit
Igsf1
Cdca5
Tubb6
Tomm40
Tas2r117
Iqgap3
Hist1h2ac
Hist1h2be
Hist1h3f
Wnt11
Ncaph
Kif20a
V1rh16
Prr11
Ddx39
Cdc45l
Topbp1
Hmga1
Pole2
BC055324

Ptgs2
Spbc24
Rtel1
AI447904
Hist1h4f
Wdr51a
Hist1h2bm
Gmnn
Tmem48
Cdt1
Orc1l
Stmn1
Ccnd1
Dek
Psmc3ip
Fxyd5
Mcm7
Itgb7
Tcf19
Cbln4
Rad51ap1
Tuba6
Dopey2
D14Ertd500e
Rfc3
Stxbp5l
Gpsm2
Hist2h4
Timm8a1
Olfr1359
Wdr51a
Wdr62
Timm8a1
Hist1h4b
Hist1h2bl
Smtn
Spred1
Hcrtr1
Nup85
Dlg7
Hmga1
Nrm
Tinf2
Timm8a2
Slc7a11

Htra3
Pkn3
Tyms
Hist1h2an
Pask
Cks1b
Ifrd2
Ube2t
Htra3
Exph5
Prim1
Foxm1
Tpx2
Mcm5
LOC544710
Asf1b
Krtap4-7
Sec1
Ranbp1
Inhba
Cep192
Hells
Tfrc
Wtap
Dab2
Cklf
Suv39h1
Ifrd1
Unc5b
Kif4
H2afx
Vrk1
Nfkbil2
LOC433426

Downregulated genes after 24h

Gene symbol
Gdpd2
Aox3
Tcp11l2
Rps14
Zwilch
Ifitm1
Clu
Gm462

Spon1
Fmo1
Prelp
Saa2
Dcamkl1
Crybb1
Mxd4
Tcn2
Mro
Styk1
Cdsn
Cfb
Pdzk1ip1
Pfkfb3
Sectm1b
Col15a1
Aebp1
C1qtnf1
Mxd4
Hcfc1r1
Chi3l1
Arvcf
Cml3
Ctgf
Tspan32
Ephb6
Abi3bp
Synpo
Kcnj16
Hs3st1
Cybb
Saa1
Fgfbp1
Car3
Tmem150
Zfhx1b
Ptch1
Limk2
Loh11cr2a
Scara5
Itga10
Hp
Gstm7
Ephb6
Atp2b4

Steap4
Fgfr2
Cdc42ep2
Hod
Col6a2
Phyh
Pdk2
Ndrg1
Acaa1a
Gpc6
Dmpk
Col6a1
C8g
Cmbl
Cryab
Clec2d
Hrh2
Lbp
C8g
Sparc
Ptch1
Mfsd7
Il18
Atp8b3
Smpdl3b
Usp2
Cml1
Ndrg1
Krt80
Neu1
Enpp5
Oit3
S3-12
Adssl1
Adra1b
Lamb3
Slc2a6
Calcoco1
Endod1
Gpr37l1
Ypel2
Aox1
Pdcd4
Fcgr3a
Il18bp

Lgmn
Icam5
Dpp7
Endod1
Tln2
Agt
Apol6
Ccl8
Btbd14a
Naga
Mgst3
Klc4
Mpeg1
Slamf8
Matn2
Sox4
Krt80
Tln2
Endod1
Acox2
Gpr177
Atp2b4
Fbln2
Dtna
Thbs1
Comt
Fcgrt
C3
D5Ertd40e
Tln2
C1r
RP23-136K12.4
Atp1a2
Sp100
Crip1
Arhgef10
Gm967
Lpin1
Col3a1
Dtx4
BC031353
Crim1
Csad
Klk1
Crip1

Rras
Snn
Gstm1
Gm967
Cnn2
Phf1
Orm1
Tspyl2
Klk1
Icam4
Pltp
Klc4
Crim1
Mxra8
Ror1
Klk1b26
Sort1
Shroom3
Marcks
Phactr1
Hdac11
Enpp2
Tspan32
Parp3
Sdsl
Itga10

own regulated genes after 1, 3, 6, 12, and 24h of FGF-8b stimulation. FDR<0.01

Name
Protocadherin 20
FBJ osteosarcoma oncogene
Gene model 1966, (NCBI)
Early growth response 1

Name
Nitric oxide synthase 2, inducible, macrophage
Nitric oxide synthase 2, inducible, macrophage
Arginyl aminopeptidase (aminopeptidase B)
Gene model 1960, (NCBI)
Intercellular adhesion molecule

Name
Amphiregulin
ERBB receptor feedback inhibitor 1
Pleckstrin homology-like domain, family A, member 1
Zinc finger protein 36, C3H type-like 2
Immediate early response 3
Polo-like kinase 3 (Drosophila)
Prostaglandin-endoperoxide synthase 2
Dual specificity phosphatase 4
Leukemia inhibitory factor
Eph receptor A2
Serum/glucocorticoid regulated kinase
Heparin-binding EGF-like growth factor
Fos-like antigen 1
Cysteine rich protein 61
Myelocytomatosis oncogene
Ephrin B2
V-maf musculoaponeurotic fibrosarcoma oncogene family, protein F
TG interacting factor
CCR4 carbon catabolite repression 4-like (S. cerevisiae)
TG interacting factor
Tribbles homolog 2 (Drosophila)
CDNA sequence BC063749
Kruppel-like factor 6
TEA domain family member 4
Plasminogen activator, urokinase receptor
G protein-coupled receptor, family C, group 5, member A

Immediate early response 2
FERM domain containing 6
Immediate early response 5
B-cell translocation gene 1, anti-proliferative
Fibroblast growth factor 7
Ankyrin repeat and BTB (POZ) domain containing 2
ADP-ribosylation factor-like 4C
Potassium intermediate/small conductance calcium-activated channel, subfamily N, member 4
Chemokine (C-C motif) ligand 2
Basic helix-loop-helix domain containing, class B2
T-cell receptor beta, variable 13
Hexokinase 2
Ankyrin repeat domain 1 (cardiac muscle)
Solute carrier family 25, member 37
Interleukin 17 receptor A
Chemokine (C-C motif) ligand 7
Inhibitor of DNA binding 3
Src homology 2 domain-containing transforming protein B
Interferon regulatory factor 2 binding protein 2
Vacuolar protein sorting 37B (yeast)
Dual specificity phosphatase 16
RAP2B, member of RAS oncogene family
Interferon-related developmental regulator 1
Jumonji domain containing 3
Recombining binding protein suppressor of hairless (Drosophila)
Adenomatosis polyposis coli down-regulated 1
Leucine-rich repeats and immunoglobulin-like domains 1
V-maf musculoaponeurotic fibrosarcoma oncogene family, protein K (avian)
Carbohydrate sulfotransferase 2
Proviral integration site 3
Jun-B oncogene
Myeloid cell leukemia sequence 1
Solute carrier family 39 (zinc transporter), member 14
Myosin X
CD300 antigen like family member B
Secretory leukocyte peptidase inhibitor
Epithelial membrane protein 1
MOB1, Mps One Binder kinase activator-like 2A (yeast)
BAT2 domain containing 1
Solute carrier family 20, member 1
AHNAK nucleoprotein (desmoyokin)
WD repeat and SOCS box-containing 1
Chromatin accessibility complex 1
BAT2 domain containing 1
Twist gene homolog 1 (Drosophila)

SH3 and PX domains 2B
AHNAK nucleoprotein (desmoyokin)
Neural precursor cell expressed, developmentally down-regulated gene 9
BAT2 domain containing 1
Serine (or cysteine) peptidase inhibitor, clade E, member 1

Name
RGM domain family, member A
Arginyl aminopeptidase (aminopeptidase B)
CDC42 effector protein (Rho GTPase binding) 2
Growth arrest and DNA-damage-inducible 45 beta
Chromobox homolog 8 (Drosophila Pc class)
Histone cluster 1, H1a
Serum amyloid A 3
MAD homolog 6 (Drosophila)
Pleckstrin homology domain containing, family F (with FYVE domain) member 1
Adrenergic receptor, beta 2
Ras association (RalGDS/AF-6) domain family 7
Pleckstrin homology domain containing, family G (with RhoGef domain) member 5
Kelch domain containing 7A
Zinc finger and BTB domain containing 7C
Serum amyloid A 2
Pyroglutamyl-peptidase I
RNA pseudouridylate synthase domain containing 3
SERTA domain containing 3
Histone cluster 1, H2af
Zinc finger protein 219
Kelch-like 25 (Drosophila)

Name
Epithelial membrane protein 1
Dual specificity phosphatase 4
Glutaredoxin
Cyclin D1
Prostaglandin-endoperoxide synthase 2
Eph receptor A2
Pleckstrin homology-like domain, family A, member 1
G protein-coupled receptor, family C, group 5, member A
Immediate early response 3
Adenomatosis polyposis coli down-regulated 1
Parvin, beta
Chemokine (C-C motif) ligand 20
Plasminogen activator, urokinase receptor

Leukemia inhibitory factor
Polo-like kinase 3 (Drosophila)
T-cell receptor beta, variable 13
Serum/glucocorticoid regulated kinase
Ankyrin repeat domain 1 (cardiac muscle)
Adenomatosis polyposis coli down-regulated 1
Angiomotin-like 1
Translocase of inner mitochondrial membrane 8 homolog a1 (yeast)
Proviral integration site 3
Twist gene homolog 1 (Drosophila)
Zinc finger protein 36, C3H type-like 2
Polyhomeotic-like 2 (Drosophila)
Recombining binding protein suppressor of hairless (Drosophila)
Solute carrier family 20, member 1
Synapse defective 1, Rho GTPase, homolog 1 (C. elegans)
Chemokine (C-X-C motif) ligand 1
Solute carrier family 39 (zinc transporter), member 14
Spermidine/spermine N1-acetyl transferase 1
Troponin T2, cardiac
TEA domain family member 4
Ras and Rab interactor 1
Immunoresponsive gene 1
Ribonucleotide reductase M2
PDZ and LIM domain 2
Exostoses (multiple) 1
RAS related protein 1b
DNA-damage-inducible transcript 4-like

Name
Epsin 3
Expressed sequence AI646023
B-cell CLL/lymphoma 9-like
Forkhead box Q1
Acid phosphatase-like 2
Matrix Gla protein
MAP kinase-interacting serine/threonine kinase 2
Basic helix-loop-helix domain containing, class B3
ATP-binding cassette, sub-family C (CFTR/MRP), member 3
DNA-damage-inducible transcript 4
Serum amyloid A 2
Mannoside acetylglucosaminyltransferase 3
Plexin D1
Discoidin domain receptor family, member 1

Arrestin, beta 1
Frizzled homolog 2 (Drosophila)
CDC42 effector protein (Rho GTPase binding) 2
Suppression of tumorigenicity 5
Mast cell protease 8
Ephrin B1
Transmembrane protein 158
Calcium/calmodulin-dependent protein kinase ID
C1q and tumor necrosis factor related protein 1
Tribbles homolog 3 (Drosophila)
Max dimerization protein 4
SRY-box containing gene 9
LIM motif-containing protein kinase 2
Activating transcription factor 3
Signal transducer and activator of transcription 5A
ST3 beta-galactoside alpha-2,3-sialyltransferase 3
Olfactory receptor 32
N-myc downstream regulated gene 1
Calcium channel, voltage-dependent, beta 3 subunit
Rho guanine nucleotide exchange factor (GEF) 10-like

Name
Dual specificity phosphatase 4
Tumor necrosis factor, alpha-induced protein 2
Sprouty homolog 1 (Drosophila)
Pleckstrin homology-like domain, family A, member 1
Cyclin D1
Adenomatosis polyposis coli down-regulated 1
G protein-coupled receptor, family C, group 5, member A
Adenomatosis polyposis coli down-regulated 1
Immediate early response 3
Rho GTPase activating protein 22
Amphiregulin
Epithelial membrane protein 1
Myelocytomatosis oncogene
Prostaglandin-endoperoxide synthase 2
High mobility group AT-hook 1
Parvin, beta
Eph receptor A2
Epidermal growth factor receptor pathway substrate 8
Epidermal growth factor receptor pathway substrate 8
Dual specificity phosphatase 9
Potassium intermediate/small conductance calcium-activated channel, subfamily N, member 4
Syndecan 4

Mitogen-activated protein kinase kinase kinase 6
Fibroblast growth factor receptor 1
Unc-5 homolog B (C. elegans)
Zinc finger protein 36, C3H type-like 2
Plasminogen activator, urokinase receptor
Carbohydrate sulfotransferase 2
ERBB receptor feedback inhibitor 1
Solute carrier family 25, member 37
Secreted phosphoprotein 1
Solute carrier family 7 (cationic amino acid transporter, y+ system), member 11
Polyhomeotic-like 2 (Drosophila)
Cell division cycle 6 homolog (S. cerevisiae)
Solute carrier family 7 (cationic amino acid transporter, y+ system), member 11
Interferon-related developmental regulator 1
CDNA sequence BC063749
X-linked myotubular myopathy gene 1
Fumarylacetoacetate hydrolase
Solute carrier family 39 (zinc transporter), member 14
Colony stimulating factor 1 (macrophage)
Chemokine (C-X-C motif) ligand 1
Tumor necrosis factor receptor superfamily, member 12a
DCMP deaminase
Rap guanine nucleotide exchange factor (GEF) 3
Neuropilin 1
Low density lipoprotein receptor-related protein 8, apolipoprotein e receptor
Kruppel-like factor 5
Proviral integration site 3
Neuron navigator 3
Inhibitor of DNA binding 1
Tubulointerstitial nephritis antigen-like
Wingless-related MMTV integration site 7B
E2F transcription factor 8
Minichromosome maintenance deficient 10 (S. cerevisiae)
Human immunodeficiency virus type I enhancer binding protein 3
Low density lipoprotein receptor adaptor protein 1
Nerve growth factor, beta
Low density lipoprotein receptor-related protein 8, apolipoprotein e receptor
Integrin alpha 3
RNA binding motif, single stranded interacting protein 1
Serum/glucocorticoid regulated kinase
Serine hydroxymethyl transferase 1 (soluble)
Stanniocalcin 2
Protein kinase, cAMP dependent regulatory, type II beta
Integrin alpha 6
TEA domain family member 4

Polo-like kinase 2 (Drosophila)
Src homology 2 domain-containing transforming protein B
Cysteine rich protein 61
Zinc finger protein, multitype 1
T-cell receptor beta, variable 13
Histone cluster 1, H2bp
Recombining binding protein suppressor of hairless (Drosophila)
Interleukin 4 receptor, alpha
Ephrin B2

Name
Nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 4
Sestrin 3
Jumonji domain containing 2B
Expressed sequence AI662250
RAB3A, member RAS oncogene family
N-myc downstream regulated gene 1
Glycerol-3-phosphate dehydrogenase 1-like
Aldehyde dehydrogenase 4 family, member A1
Pleckstrin homology domain containing, family G (with RhoGef domain) member 5
DNA segment, Chr 9, ERATO Doi 280, expressed
ATPase, Ca++ transporting, plasma membrane 4
Complement component 3
Scleraxis
Sorbitol dehydrogenase
Cell adhesion molecule-related/down-regulated by oncogenes
Transducin-like enhancer of split 6, homolog of Drosophila E(spl)
Doublecortin and calcium/calmodulin-dependent protein kinase-like 1
SRY-box containing gene 9
Fibroblast growth factor receptor 2
WD repeat domain 6
G protein-coupled receptor, family C, group 5, member B
Arginyl aminopeptidase (aminopeptidase B)
Acyl-CoA thioesterase 1
Patched homolog 1
N-myc downstream regulated gene 1
High mobility group box transcription factor 1
Carnitine palmitoyltransferase 1a, liver
Acyl-Coenzyme A oxidase 2, branched chain
Discoidin domain receptor family, member 1
Arrestin, beta 1
Growth arrest specific 7
Yippee-like 3 (Drosophila)
Basic helix-loop-helix domain containing, class B3

Eph receptor B6
NUAK family, SNF1-like kinase, 1
High mobility group box transcription factor 1
Kelch domain containing 8A
Solute carrier family 2 (facilitated glucose transporter), member 6
Vitamin D receptor
Fos-like antigen 2
Serum amyloid A 2
Expressed sequence AU041783
Ras homolog gene family, member B
Microtubule-associated protein, RP/EB family, member 3
Transformation related protein 53 inducible nuclear protein 2
Nitric oxide synthase 2, inducible, macrophage
Transmembrane protein 53
Eph receptor B6
Rho guanine nucleotide exchange factor (GEF) 19
G protein-coupled receptor 56
D site albumin promoter binding protein
DNA-damage-inducible transcript 4
ATP-binding cassette, sub-family C (CFTR/MRP), member 3
Nitric oxide synthase 2, inducible, macrophage
Yippee-like 3 (Drosophila)
Transmembrane inner ear
Gene model 967, (NCBI)
Aldehyde dehydrogenase 1 family, member L1
CDNA sequence BC025575
Recoverin
SRY-box containing gene 4
Adrenergic receptor, alpha 1b
Cytochrome P450, family 26, subfamily b, polypeptide 1
Kinesin light chain 4
Acid phosphatase-like 2
Proline arginine-rich end leucine-rich repeat
CDC42 effector protein (Rho GTPase binding) 2
Armadillo repeat gene deleted in velo-cardio-facial syndrome
EH-domain containing 3
LIM motif-containing protein kinase 2
Selenium binding protein 1
Selenium binding protein 2
Serum amyloid A 3
Expressed sequence AI646023
Forkhead box Q1
Gamma-glutamyltransferase 6
STEAP family member 4
STEAP family member 4

C1q and tumor necrosis factor related protein 1
Max dimerization protein 4

Name
Mitogen regulated protein, proliferin 4
Proliferin
Epithelial membrane protein 1
Solute carrier organic anion transporter family, member 4a1
Shugoshin-like 1 (S. pombe)
Rho GTPase activating protein 11A
Inhibitor of DNA binding 1
Fos-like antigen 1
Rho GTPase activating protein 19
Amphiregulin
Dual specificity phosphatase 6
Baculoviral IAP repeat-containing 5
POU domain, class 2, associating factor 1
Sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6B
Glutathione S-transferase, alpha 1 (Ya)
Matrix metallopeptidase 9
Cyclin A2
On-SMC condensin I complex, subunit G
BRCA1 associated RING domain 1
Kinesin family member 14
Extra spindle poles-like 1 (S. cerevisiae)
DNA segment, Chr 2, ERATO Doi 750, expressed
NIMA (never in mitosis gene a)-related expressed kinase 2
Centromere protein A
Hyaluronan mediated motility receptor (RHAMM)
Cytoskeleton associated protein 2-like
Anillin, actin binding protein (scraps homolog, Drosophila)
DNA segment, Chr 17, human D6S56E 5
Centromere protein M
Aurora kinase A
Cell division cycle associated 3
Nucleolar and spindle associated protein 1
Ribonucleotide reductase M2
GINS complex subunit 1 (Psf1 homolog)
Fanconi anemia, complementation group D2
RecQ protein-like 4
Trophinin associated protein
Myeloblastosis oncogene-like 2
CDNA sequence BC030867
Cyclin B1

Histone cluster 1, H2bp
Essential meiotic endonuclease 1 homolog 1 (S. pombe)
Transforming, acidic coiled-coil containing protein 3
HIRA interacting protein 3
Polo-like kinase 4 (Drosophila)
Cyclin B2
Cell division cycle 25 homolog B (S. cerevisiae)
Kinesin family member 22
Cell division cycle 25 homolog C (S. cerevisiae)
Solute carrier family 7 (cationic amino acid transporter, y+ system), member 11
TRAF-interacting protein
Polo-like kinase 1 (Drosophila)
Kinesin family member C1
Centromere protein M
Exonuclease 1
Kinesin family member 23
CTF18, chromosome transmission fidelity factor 18 homolog (S. cerevisiae)
Sprouty homolog 1 (Drosophila)
CDC28 protein kinase regulatory subunit 2
F-box protein 5
Cell division cycle associated 2
Lipase, endothelial
Dual specificity phosphatase 4
Kinesin family member 2C
X-linked myotubular myopathy gene 1
Sperm associated antigen 5
Histone cluster 1, H3g
CDNA sequence BC048355
Pituitary tumor-transforming 1
Cell division cycle associated 8
RAD54 like (S. cerevisiae)
E2F transcription factor 8
Non-SMC condensin I complex, subunit D2
Sialophorin
BRCA1 interacting protein C-terminal helicase 1
Hypothetical protein 9530076L18
Polymerase (DNA directed), epsilon
Histone cluster 1, H1d
Tripartite motif protein 24
Aryl hydrocarbon receptor nuclear translocator-like 2
Aurora kinase B
Solute carrier family 11 (proton-coupled divalent metal ion transporters), member 1
Histone cluster 1, H2bk
Histone cluster 1, H2ao
Cell division cycle 6 homolog (S. cerevisiae)

MAD2 (mitotic arrest deficient, homolog)-like 1 (yeast)
Inner centromere protein
Solute carrier family 14 (urea transporter), member 1
Chemokine (C-X-C motif) ligand 10
CDNA sequence BC048355
Replication factor C (activator 1) 5
Cytoskeleton associated protein 2
Ubiquitin-like, containing PHD and RING finger domains, 1
Replication factor C (activator 1) 4
Topoisomerase (DNA) II alpha
Non-SMC condensin I complex, subunit D2
Histone cluster 1, H2bp
Aldehyde dehydrogenase family 3, subfamily A1
Centromere protein H
Histone cluster 1, H2af
Fidgetin-like 1
IQ motif containing GTPase activating protein 3
RAD51 homolog (S. cerevisiae)
Polyamine-modulated factor 1
Secreted phosphoprotein 1
Protein kinase, membrane associated tyrosine/threonine 1
Stathmin 1
Chromatin assembly factor 1, subunit A (p150)
Budding uninhibited by benzimidazoles 1 homolog, beta (S. cerevisiae)
Citron
Immunoglobulin superfamily, member 1
Cell division cycle associated 5
Tubulin, beta 6
Translocase of outer mitochondrial membrane 40 homolog (yeast)
Taste receptor, type 2, member 117
IQ motif containing GTPase activating protein 3
Histone cluster 1, H2ac
Histone cluster 1, H2be
Histone cluster 1, H3f
Wingless-related MMTV integration site 11
Non-SMC condensin I complex, subunit H
Kinesin family member 20A
Vomeronasal 1 receptor, H16
Proline rich 11
DEAD (Asp-Glu-Ala-Asp) box polypeptide 39
Cell division cycle 45 homolog (S. cerevisiae)-like
Topoisomerase (DNA) II beta binding protein
High mobility group AT-hook 1
Polymerase (DNA directed), epsilon 2 (p59 subunit)
CDNA sequence BC055324

Prostaglandin-endoperoxide synthase 2
Spindle pole body component 24 homolog (S. cerevisiae)
Regulator of telomere elongation helicase 1
Expressed sequence AI447904
Histone cluster 1, H4f
WD repeat domain 51A
Histone cluster 1, H2bm
Geminin
Transmembrane protein 48
Chromatin licensing and DNA replication factor 1
Origin recognition complex, subunit 1-like (S.cereviaiae)
Stathmin 1
Cyclin D1
DEK oncogene (DNA binding)
Proteasome (prosome, macropain) 26S subunit, ATPase 3, interacting protein
FXYD domain-containing ion transport regulator 5
Minichromosome maintenance deficient 7 (S. cerevisiae)
Integrin beta 7
Transcription factor 19
Cerebellin 4 precursor protein
RAD51 associated protein 1
Tubulin, alpha 6
Dopey family member 2
DNA segment, Chr 14, ERATO Doi 500, expressed
Replication factor C (activator 1) 3
Syntaxin binding protein 5-like
G-protein signalling modulator 2 (AGS3-like, C. elegans)
Histone cluster 2, H4
Translocase of inner mitochondrial membrane 8 homolog a1 (yeast)
Olfactory receptor 1359
WD repeat domain 51A
WD repeat domain 62
Translocase of inner mitochondrial membrane 8 homolog a1 (yeast)
Histone cluster 1, H4b
Histone cluster 1, H2bl
Smoothelin
Sprouty protein with EVH-1 domain 1, related sequence
Hypocretin (orexin) receptor 1
Nucleoporin 85
Discs, large homolog 7 (Drosophila)
High mobility group AT-hook 1
Nurim (nuclear envelope membrane protein)
Terf1 (TRF1)-interacting nuclear factor 2
Translocase of inner mitochondrial membrane 8 homolog a2 (yeast)
Solute carrier family 7 (cationic amino acid transporter, y+ system), member 11

HtrA serine peptidase 3
Protein kinase N3
Thymidylate synthase
Histone cluster 1, H2an
PAS domain containing serine/threonine kinase
CDC28 protein kinase 1b
Interferon-related developmental regulator 2
Ubiquitin-conjugating enzyme E2T (putative)
HtrA serine peptidase 3
Exophilin 5
DNA primase, p49 subunit
Forkhead box M1
TPX2, microtubule-associated protein homolog (Xenopus laevis)
Minichromosome maintenance deficient 5, cell division cycle 46 (S. cerevisiae)
Similar to keratin associated protein 10-7
ASF1 anti-silencing function 1 homolog B (S. cerevisiae)
Keratin associated protein 4-7
Secretory blood group 1
RAN binding protein 1
Inhibin beta-A
Centrosomal protein 192
Helicase, lymphoid specific
Transferrin receptor
Wilms' tumour 1-associating protein
Disabled homolog 2 (Drosophila)
Chemokine-like factor
Suppressor of variegation 3-9 homolog 1 (Drosophila)
Interferon-related developmental regulator 1
Unc-5 homolog B (C. elegans)
Kinesin family member 4
H2A histone family, member X
Vaccinia related kinase 1
Nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor-like 2
Hypothetical gene supported by AK028256

Name
Glycerophosphodiester phosphodiesterase domain containing 2
Aldehyde oxidase 3
T-complex 11 (mouse) like 2
Ribosomal protein S14
Zwilch, kinetochore associated, homolog (Drosophila)
Interferon induced transmembrane protein 1
Clusterin
Gene model 462, (NCBI)

Spondin 1, (f-spondin) extracellular matrix protein
Flavin containing monooxygenase 1
Proline arginine-rich end leucine-rich repeat
Serum amyloid A 2
Doublecortin and calcium/calmodulin-dependent protein kinase-like 1
Crystallin, beta B1
Max dimerization protein 4
Transcobalamin 2
Maestro
Serine/threonine/tyrosine kinase 1
Corneodesmosin
Complement factor B
PDZK1 interacting protein 1
6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3
Secreted and transmembrane 1B
Procollagen, type XV
AE binding protein 1
C1q and tumor necrosis factor related protein 1
Max dimerization protein 4
Host cell factor C1 regulator 1 (XPO1-dependent)
Chitinase 3-like 1
Armadillo repeat gene deleted in velo-cardio-facial syndrome
Camello-like 3
Connective tissue growth factor
Tetraspanin 32
Eph receptor B6
ABI gene family, member 3 (NESH) binding protein
Synaptopodin
Potassium inwardly-rectifying channel, subfamily J, member 16
Heparan sulfate (glucosamine) 3-O-sulfotransferase 1
Cytochrome b-245, beta polypeptide
Serum amyloid A 1
Fibroblast growth factor binding protein 1
Carbonic anhydrase 3
Transmembrane protein 150
Zinc finger homeobox 1b
Patched homolog 1
LIM motif-containing protein kinase 2
Loss of heterozygosity, 11, chromosomal region 2, gene A homolog (human)
Scavenger receptor class A, member 5 (putative)
Integrin, alpha 10
Haptoglobin
Glutathione S-transferase, mu 7
Eph receptor B6
ATPase, Ca++ transporting, plasma membrane 4

STEAP family member 4
Fibroblast growth factor receptor 2
CDC42 effector protein (Rho GTPase binding) 2
Homeobox only domain
Procollagen, type VI, alpha 2
Phytanoyl-CoA hydroxylase
Pyruvate dehydrogenase kinase, isoenzyme 2
N-myc downstream regulated gene 1
Acetyl-Coenzyme A acyltransferase 1A
Glypican 6
Dystrophia myotonica-protein kinase
Procollagen, type VI, alpha 1
Complement component 8, gamma subunit
Carboxymethylenebutenolidase-like (Pseudomonas)
Crystallin, alpha B
C-type lectin domain family 2, member d
Histamine receptor H 2
Lipopolysaccharide binding protein
Complement component 8, gamma subunit
Secreted acidic cysteine rich glycoprotein
Patched homolog 1
Major facilitator superfamily domain containing 7
Interleukin 18
ATPase, Class I, type 8B, member 3
Sphingomyelin phosphodiesterase, acid-like 3B
Ubiquitin specific peptidase 2
Camello-like 1
N-myc downstream regulated gene 1
Keratin 80
Neuraminidase 1
Ectonucleotide pyrophosphatase/phosphodiesterase 5
Oncoprotein induced transcript 3
Plasma membrane associated protein, S3-12
Adenylosuccinate synthetase like 1
Adrenergic receptor, alpha 1b
Laminin, beta 3
Solute carrier family 2 (facilitated glucose transporter), member 6
Calcium binding and coiled coil domain 1
Endonuclease domain containing 1
G protein-coupled receptor 37-like 1
Yippee-like 2 (Drosophila)
Aldehyde oxidase 1
Programmed cell death 4
Fc fragment of IgG, low affinity IIIa, receptor
Interleukin 18 binding protein

Legumain
Intercellular adhesion molecule 5, telencephalin
Dipeptidylpeptidase 7
Endonuclease domain containing 1
Talin 2
Angiotensinogen (serpin peptidase inhibitor, clade A, member 8)
Apolipoprotein L, 6
Chemokine (C-C motif) ligand 8
BTB (POZ) domain containing 14A
N-acetyl galactosaminidase, alpha
Microsomal glutathione S-transferase 3
Kinesin light chain 4
Macrophage expressed gene 1
SLAM family member 8
Matrilin 2
SRY-box containing gene 4
Keratin 80
Talin 2
Endonuclease domain containing 1
Acyl-Coenzyme A oxidase 2, branched chain
G protein-coupled receptor 177
ATPase, Ca++ transporting, plasma membrane 4
Fibulin 2
Dystrobrevin alpha
Thrombospondin 1
Catechol-O-methyltransferase
Fc receptor, IgG, alpha chain transporter
Complement component 3
DNA segment, Chr 5, ERATO Doi 40, expressed
Talin 2
Complement component 1, r subcomponent
Putative phosphatase
ATPase, Na+/K+ transporting, alpha 2 polypeptide
Nuclear antigen Sp100
Cysteine-rich protein 1 (intestinal)
Rho guanine nucleotide exchange factor (GEF) 10
Gene model 967, (NCBI)
Lipin 1
Procollagen, type III, alpha 1
Deltex 4 homolog (Drosophila)
CDNA sequence BC031353
Cysteine rich transmembrane BMP regulator 1 (chordin like)
Cysteine sulfinic acid decarboxylase
Kallikrein 1
Cysteine-rich protein 1 (intestinal)

Harvey rat sarcoma oncogene, subgroup R
Stannin
Glutathione S-transferase, mu 1
Gene model 967, (NCBI)
Calponin 2
PHD finger protein 1
Orosomucoid 1
TSPY-like 2
Kallikrein 1
Intercellular adhesion molecule 4, Landsteiner-Wiener blood group
Phospholipid transfer protein
Kinesin light chain 4
Cysteine rich transmembrane BMP regulator 1 (chordin like)
Matrix-remodelling associated 8
Receptor tyrosine kinase-like orphan receptor 1
Kallikrein 1-related petidase b26
Sortilin 1
Shroom family member 3
Myristoylated alanine rich protein kinase C substrate
Phosphatase and actin regulator 1
Histone deacetylase 11
Ectonucleotide pyrophosphatase/phosphodiesterase 2
Tetraspanin 32
Poly (ADP-ribose) polymerase family, member 3
Serine dehydratase-like
Integrin, alpha 10

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Ratio
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Ratio
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Table S3 The 400 most

Gene symbol
Aurka
Tacc3
Ccnb2
Pttg1
Tnfaip2
Tubb6
Hmga1
Trim16
Birc5
Csf1
Mcm5
Cdc45l
Fgfr1
Cdca8
Cenpa
Nek2
Cyr61
Kif22
Apcdd1
Ctgf
Pvr
Gdpd2
Stc2
Acpl2
Glrx
Bcl2l11
Myc
Lmcd1
Pola2
Cdca5
Rad54l
Cdc20
Arhgap22
Mybl2
Tk1
Aurkb
Efnb1
Prelp
Cenpm
Rasa3
Ddx39
Spbc24
Lig1
Rfc5
Shroom3
Nup85
Trp53inp2
Tln2
Troap
Ndrg1
D2Ertd750e
Incenp
Amotl2

Cenpm
Limk2
Scmh1
Mgat3
Ppap2a
Suv39h1
Id1
Cdt1
Slc39a14
Pdlim2
Cdca3
Arrb1
Ddit4
Tns1
Plk1
Bcl2l1
Clu
Btg2
Tmem109
Nip7
Ddit4l
Gas7
Eme1
Kif20a
Cks2
Pmf1
Foxm1
Rfc3
Kif2c
Lgals3
Egln3
Errfi1
Shroom3
Coq7
C1qtnf1
Plaur
Rfc2
Rapgef3
Reep4
Gtf3a
Cdc6
Tgif
Mcm3
Ibrdc3
Chtf18
Ivd
Plekhq1
H2afx
Snf1lk
Espl1
Hirip3
Ccnd1
Mxd4
Hist1h2an
Iqgap3
Stmn1

H2afv
Traf5
Nfkbil2
Smpdl3b
Ndrg3
Lgmn
Nrf1
Atp2b4
Bub1b
Gpnmb
D9Ertd280e
Ars2
Adamtsl4
Dusp4
Uhrf1
Sparc
Iqgap3
Hist1h2bl
St5
Tln2
Exosc7
Smad3
Saa1
Fah
Comt
Olfml3
Shmt1
Bcat1
Tmepai
Ncapd2
Wnt7b
Lif
Sox9
Gsta1
Otub2
Gle1l
Tapbp
Aldh3a1
Chaf1a
Fosl2
Nup62
Ngfb
Lincr
Il12rb1
Bhlhb2
Cxcl10
Cd300lb
Cdc25b
Prdx5
Ncaph
Noc2l
Cdc42ep2
Arhgef7
Rin1
Mxd3
Ube2s

Sertad4
Cryab
Soat1
Tead4
Galm
Cdkn2d
Ankrd47
Tubg1
Cks1b
Ndrg1
Fosl1
Fanca
Ppif
Ifrd2
Ercc1
Zfand2a
Rcvrn
Ppan
Lbp
Chaf1b
Stard8
Endod1
St3gal4
Ccrn4l
Sord
Rps14
Sox9
Lsm2
Col4a2
Prmt1
Hbegf
Kifc1
Pgam5
Csnk1e
Grn
Tns1
Lrrc54
U2af1
Rangap1
Zfp324
Gchfr
Tmem39a
Ppap2b
Sephs2
Klhdc7a
Mrps6
Mical2
Adarb1
Nf2
Fgfr2
Plxna1
Sesn3
Tyms
Snrpg
Fen1
Apcdd1

Lig1
Tubb2c
Spon1
Dtymk
Ung
Wsb2
Tagln2
Gtpbp2
Vdr
Shb
Pak4
Hist2h4
Lpin1
Gabarapl1
Ldlr
Fxyd5
Atp2b4
Hist1h2ao
Ahcy
Psph
Oaz2
Dusp7
Tuba4
Parvb
Rnf126
Slc2a1
Smpd3
Hn1
Pten
Car13
St3gal1
Hist1h4f
Rnaseh2c
Htra3
Dusp4
H1f0
Wdr42a
Pscd3
Orm1
Ccna2
Mdc1
Mafk
Fbxo25
Ypel3
Prim2
Gabpb2
Tgif
Pcyox1l
Gjb3
Zfp36l1
Hist1h2bm
Pkmyt1
Ptch1
D11Ertd497e
Pck2
Ier3

Pxmp4
Timp2
Arhgef19
Kctd13
Pcolce
Tln2
Rps8
Zfp36l2
Sox4
Cdca7
Tnfrsf9
Dbp
Unc93b1
Igsf1
Hist1h2bk
Ncaph2
Wdr62
Foxd1
Htf9c
Zmat3
Ets2
Dusp6
Cdk2ap1
Wdr51a
Plk3
E2f4
Top3a
Cd81
Hisppd2a
Ard1
Atf4
D17H6S56E-5
Neu1
Hist1h2ak
Tacc2
Mrps18b
Map3k6
Tnnt2
Irf2bp2
Cyp26b1
Jun
Cpeb4
Traf5
Abcc5
Dusp1
Pold2
Plk2
Car5b
Ncapd2
Chd3
Capg
Fasn
Pdgfrl
Hist2h4
Nsun5
Angptl2

D11Lgp2e
Lmnb2
Sh3pxd2a
Mrps25
Zbed3
Nrm
Plcb4
Nedd9
Pdhx
Ccdc93
Scara5
Bcat1
Atg7
Atf3
Shmt2
Toe1
Lsm4
Bhlhb3
Mxd4
St6galnac4
Tcfap2a
Baiap2
Stk40
Arfgap3
Jub
Dusp10
Osbpl5
Srm
Srebf2
Dtx4
Ext2
Psrc1
Sod3
Ttc28
Abcc3
Dcamkl1
Srgap3
Erdr1
Klf5
Cst3
Thoc4
Jmjd2a
Gcn5l2
Bin1
Heg1
Ccdc86
Tapbpl
Slc16a3
Gadd45g
Clstn1
Nfil3
Psmc3ip
Klhdc4
Pim3
Limk2
Aldh18a1

Atp11a
Atp6v0a1
Podxl
Rab3a
Tpp1
Bola2
Vasp
Cep250
Nf2
Usp10
Hist1h2be

t differentially expressed genes in response to FGF-8b during the 1-24 h time course

Accession number
NM_011497|AK085861|AK077513|BC014711
NM_011524|5730574P12|AK076282|2210019K18|AF156934
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NM_016660|NULL|J04179
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NM_007778|NULL|M21952
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NM_009862|NULL|AF081536
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NM_026560
NM_007681|
NM_010892|NULL|BC057576
NM_010516|NULL|BC066019
NM_145588|AK075922|AK088033|AK084310|BC003427
NULL|NULL|BI733146
NM_010217|NULL|NULL
NM_009310|NM_027514|AK078344|AK080753|AK038747|BC013673
NM_023608|AK086508|AK018634|BC038274
NM_011491|AK010318|AK046655|NULL
NM_153420|AK083712|AK084605|AK082059|AK043758|BC023960
NM_053108|AK013722|NULL
NM_009754|NM_207680|NM_207681|AK082613|AK011490|NULL
NM_010849|AK087961|X01023
NM_144799|AK075847|NULL
NM_008893|AK020656|AK087989|NULL
NM_026410|AK011701|AK010540|BC052904
NM_009015|AK030753|AK088876|AK048078|AK017340|BC021643
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NM_008652|AK028497|NULL
NM_009387|AK085188|AK087988|NULL
NM_011496|AK075951|BC003261
NM_010110|AK034996|NULL
NM_054077|AK047480|AK037150|NULL
NM_025639|NM_178269
NM_009025|AK053353|NULL
NM_197982|AK011285|NULL
NM_026282|AK075950|AK011728|NULL
NM_010715|2610021G07|BF012073|U19604
XM_132348|AK011489|NULL
NULL|AK049347|NULL
NM_001002929|AK017632|NULL
NM_178111|AK003956|AK079304|BC043086
XM_486227|AK052301|AF467081
XM_283286|AK077509|AK050381|NULL
NM_008681|NM_010884|AK004548|U52073
NM_026412|AK013184|AK036374|AK006328|AK028590|NULL
NM_016692|AK088627|AK081841|NULL
NM_019764|AK040912|AK077535|AF175968

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NM_178149|AK005141|NULL
NM_013883|AK009416|BC025478
NM_010795|AK081850|BC053040
NM_008247|NM_008903|AK077275|L43371
NM_011514|AK088405|AF019969
NM_010495|AK008264|NULL
NM_026014|AK076527|AK083015|AK049163|AK012041|AK017609|AK028287|AK021216
NM_144808|AK090193|AK122197
NM_145978|2310041E13|4732462F18|BC024556|AA036196
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NM_133753|AK004851|BC057646
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NM_019959|AK005484|NULL
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NM_180588|AK012301|NULL
NM_025652|AK008247|AK012797|AK017234|AK011845|NULL
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XM_204030|AK015966|NULL
NM_145409|AK052673|AK077947|NULL
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NM_153119|NULL|BC028908
NM_010436|AK088040|BC010336
NM_010831|NULL|U11494
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NM_133888|AK004242|BC009087
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NM_011175|NULL|AJ000990
NULL|AK037697|AK031103|AK014494|AK029034|NULL
NM_213616|NULL|AY560895
NM_009773|AK088502|AF107296
NM_053110|AK044764|AK076347|NULL
NM_177775|AK086367|NULL
NM_031405|NULL|BC066831
NM_144899|NULL|AY158701
NULL|AK012530|NULL
NM_010931|NULL|BC022167
NM_009242|AK014286|CB588543
NULL|NULL|BC068159
NM_178199|NULL|NULL
NM_001001326|NM_029811|AK008100|BC051034
XM_486227|AK029828|AK017597|NULL
XM_284543|AK011294|NULL
NM_016769|AK048626|AK083158|NULL
NM_009117|NULL|NULL
NM_010176|NULL|M84145
NM_007744|NULL|BC010402
NM_133859|AK002518|AK076084|NULL
NM_009171|AK010439|BC026055
NM_007532|AK012821|AK013888|AK036309|NULL
NM_022995|AK008976|NULL
NM_146171|AK019259|BC025460
NM_009528|AK087499|NULL
NM_008501|AK042018|NULL
NULL|AK030187|NULL
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NM_008037|AK089371|BC065131
NM_053074|NULL|BC005784
NM_013609|NULL|M35075
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NM_199221|NULL|BY748526
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NM_134024|NULL|BC006581
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NM_016925|NULL|AF208116
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NM_025903|AK002702|AK007687|BC037434
NM_007948|AK088271|NULL
NM_133349|NULL|BC058780
NULL|AK036086|NULL
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NM_008489|NULL|X99347
NM_028083|AK011243|NULL
NM_199018|NULL|BC062944
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NM_009178|AK008543|BC050773
NM_009834|AK084516|AK087790|AK041713|U70139
NM_146126|AK004692|AK015059|BC054095
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NM_009932|NULL|AI425303|J04695
NM_019830|AK088790|AK020120|BC051953
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NM_178732|AK052251|AK054407|AK051488|AK085053|AK044240|NULL
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NM_010898|NULL|X74671
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NM_011677|NULL|BC011039
NM_021539|NULL|BC055100
NM_178598|NULL|NULL
NM_019581|AK087511|BC049089
NM_009504|AK030339|NULL
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NM_027470|AK088512|AK017713|BC048238
NM_178208|NULL|NULL
NM_172950|AK030921|NULL
NM_020590|AK014083|AK018687|AK011975|NULL
NM_010700|NULL|BC053041
NM_008761|AK003068|BC031112
NULL|AK033259|NULL
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NM_016661|AK075629|9430016L23|CA752180|L32836
NM_133900|AK088865|NULL
NM_010952|NULL|BC055442
NM_153459|NULL|BC010207
NM_009447|AK002427|AK078355|NULL
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Table S4 Functional categories associated with the most significantly altered FGF-8b-regulated genes

Category
Cell Cycle
Cancer
Cellular Growth and Proliferation
Respiratory Disease
Cell Death
Tumor Morphology
Genetic Disorder
Cellular Function and Maintenance
DNA Replication, Recombination, and Repair
Renal and Urological Disease
Hematological System Development and Function
Hematopoiesis
Tissue Morphology
Antigen Presentation
Cell Morphology
Cellular Movement
Immune Cell Trafficking
Inflammatory Response
Connective Tissue Development and Function
Cellular Development
Embryonic Development
Reproductive System Disease
Organismal Development
Gene Expression
Hematological Disease
Organismal Survival
Nervous System Development and Function
Connective Tissue Disorders
Carbohydrate Metabolism
Cardiovascular Disease
Cellular Assembly and Organization
Digestive System Development and Function
Molecular Transport
Neurological Disease
Post-Translational Modification
Respiratory System Development and Function
Skeletal and Muscular Disorders
Tissue Development
Ophthalmic Disease
Immunological Disease
Reproductive System Development and Function
Cell-To-Cell Signaling and Interaction
Organ Morphology
Hair and Skin Development and Function
Developmental Disorder
Dermatological Diseases and Conditions
Endocrine System Disorders
Lipid Metabolism
Renal and Urological System Development and Function
Small Molecule Biochemistry
Hepatic System Development and Function
Organ Development

Visual System Development and Function
Organismal Injury and Abnormalities
Cardiovascular System Development and Function
Skeletal and Muscular System Development and Function
Inflammatory Disease
Infection Mechanism
RNA Damage and Repair
Lymphoid Tissue Structure and Development

P-value
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Supplemental Table 5. Gene set A-C derived by clustering of 592 human orthologs of FGF-8b-regulated genes according to the expression level in 198 breast tumor samples.

Probe set	*Gene symbol*	*Gene name*	*P-value*	*Correlation coefficient*
Cluster A				
201710_at	MYBL2	v-myb myeloblastosis viral oncogene homolog (avian)-like 2	7.3E-11	0.4438
202094_at	BIRC5	baculoviral IAP repeat-containing 5	5.4E-08	0.3765
202240_at	PLK1	polo-like kinase 1 (Drosophila)	1.4E-13	0.4963
203418_at	CCNA2	cyclin A2	1.1E-11	0.4606
203805_s_at	FANCA	Fanconi anemia, complementation group A	2.0E-07	0.3610
203967_at	CDC6	cell division cycle 6 homolog (S. cerevisiae)	5.7E-08	0.3759
203968_s_at	CDC6	cell division cycle 6 homolog (S. cerevisiae)	8.1E-11	0.4428
204775_at	CHAF1B	chromatin assembly factor 1, subunit B (p60)	2.1E-04	0.2619
209464_at	AURKB	aurora kinase B	3.8E-09	0.4053
209680_s_at	KIFC1	kinesin family member C1	1.0E-07	0.3691
209832_s_at	CDT1	chromatin licensing and DNA replication factor 1	4.5E-09	0.4035
211080_s_at	NEK2	NIMA (never in mitosis gene a)-related kinase 2	1.2E-05	0.3068
213226_at	CCNA2	cyclin A2	2.4E-13	0.4920
218741_at	CENPM	centromere protein M	3.9E-11	0.4495
221436_s_at	CDCA3	cell division cycle associated 3	4.2E-15	0.5221
221520_s_at	CDCA8	cell division cycle associated 8	1.3E-14	0.5139
Cluster B				
202095_s_at	BIRC5	baculoviral IAP repeat-containing 5	7.2E-13	0.4834
202338_at	TK1	thymidine kinase 1, soluble	2.4E-11	0.4538
202705_at	CCNB2	cyclin B2	1.1E-15	0.5313
202870_s_at	CDC20	cell division cycle 20 homolog (S. cerevisiae)	3.8E-15	0.5229
204092_s_at	AURKA	aurora kinase A	>1.0E-16	0.5512
208079_s_at	AURKA	aurora kinase A	>1.0E-16	0.5481
209408_at	KIF2C	kinesin family member 2C	>1.0E-16	0.5562
Cluster C				
203438_at	STC2	stanniocalcin 2	4.3E-08	-0.3789
203439_s_at	STC2	stanniocalcin 2	1.3E-07	-0.3662
204014_at	DUSP4	dual specificity phosphatase 4	2.1E-06	-0.3315
204015_s_at	DUSP4	dual specificity phosphatase 4	2.8E-06	-0.3274