

Relevance Networks

by Atul Butte, MD <atul_butte@harvard.edu>

Software copyright (C) 1998-2002 by Atul Butte and Children's Hospital, Boston

Please cite Butte AJ, et al., Proceedings of the National Academy of Science USA 97(22):12182-6, 2000.

Analysis

Associations computed: 13:36 09/30/2002

Networks constructed: 13:41 09/30/2002

Dissimilarity measure: r

Minimum number of points needed for dissimilarity calculation: 5

Ignore negative and zero expression measures: FALSE

Set negative expression measures to zero: FALSE

Only use points with pairs of P calls in dissimilarity calculations: FALSE

Normalization: none

Parameters used

Keep associations greater than: 0.8

Keep associations less than: -0.8

General description

Number of networks: 18

Number of features (genes): 202

Number of features (genes) used: 86

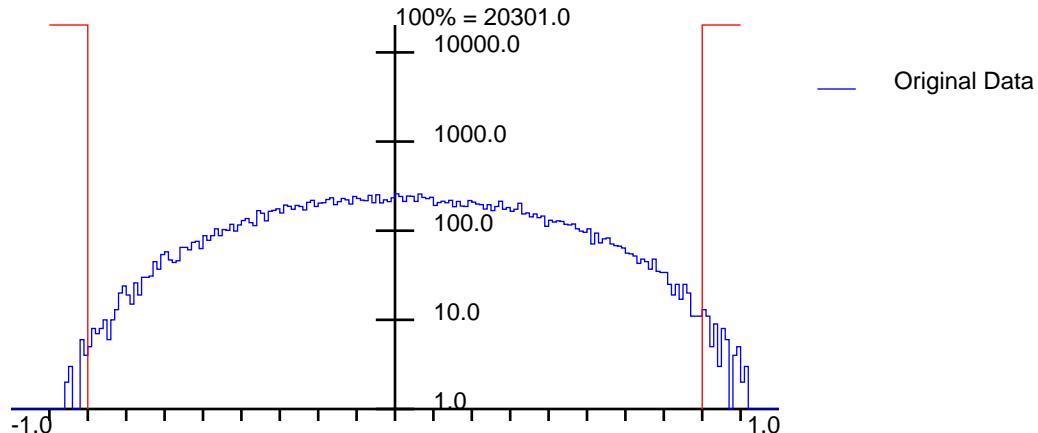
Total number of edges possible between 202 features (genes): 20301

Number of edges left after analysis: 90

Absolute value of strongest link from any of the 86 nodes used in this analysis: 0.9684996

Absolute value of weakest link from any of the 86 nodes used in this analysis: 0.8005866

Histogram



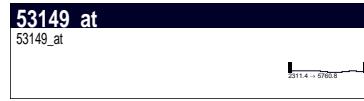
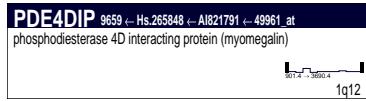
Data ranges from -0.8860942 to 0.9684996.

Samples Used (13 samples)

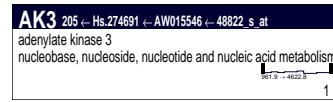
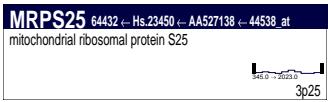
C:\Documents and Settings\Guest\Desktop\S+83Nem.Unnorm.txt_1
C:\Documents and Settings\Guest\Desktop\S+83Nem.Unnorm.txt_2
C:\Documents and Settings\Guest\Desktop\S+83Nem.Unnorm.txt_3
C:\Documents and Settings\Guest\Desktop\S+83Nem.Unnorm.txt_4
C:\Documents and Settings\Guest\Desktop\S+83Nem.Unnorm.txt_5
C:\Documents and Settings\Guest\Desktop\S+83Nem.Unnorm.txt_6
C:\Documents and Settings\Guest\Desktop\S+83Nem.Unnorm.txt_7
C:\Documents and Settings\Guest\Desktop\S+83Nem.Unnorm.txt_8
C:\Documents and Settings\Guest\Desktop\S+83Nem.Unnorm.txt_9
C:\Documents and Settings\Guest\Desktop\S+83Nem.Unnorm.txt_10
C:\Documents and Settings\Guest\Desktop\S+83Nem.Unnorm.txt_11
C:\Documents and Settings\Guest\Desktop\S+83Nem.Unnorm.txt_12
C:\Documents and Settings\Guest\Desktop\S+83Nem.Unnorm.txt_13

Network Table of Contents

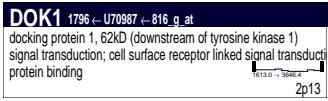
Network 1 (size 3)



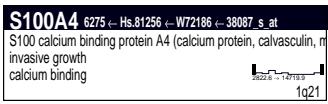
Network 2 (size 3)



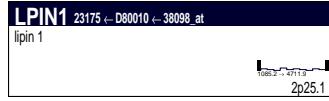
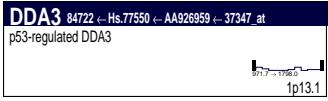
Network 3 (size 2)



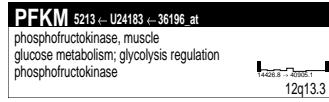
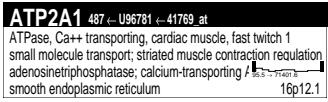
Network 4 (size 2)



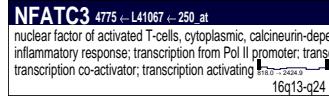
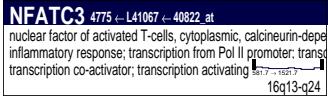
Network 5 (size 2)



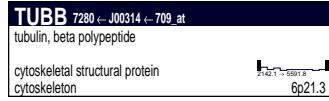
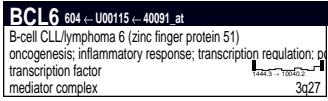
Network 6 (size 2)



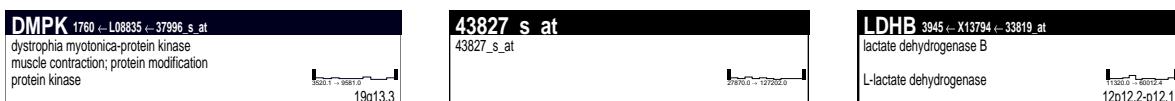
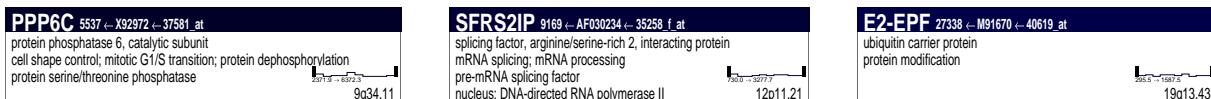
Network 7 (size 2)



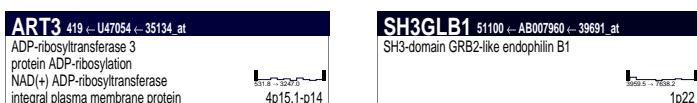
Network 8 (size 2)



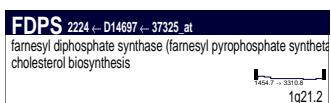
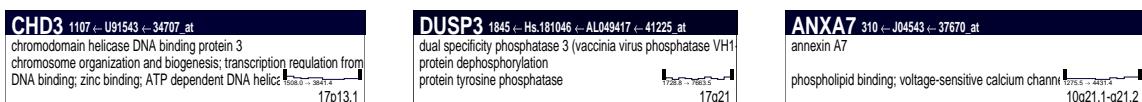
Network 9 (size 10)



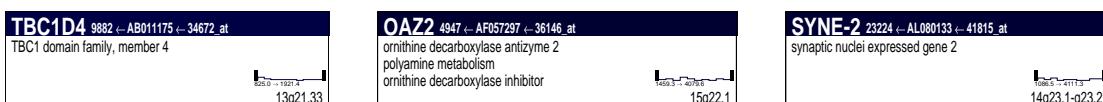
Network 10 (size 2)



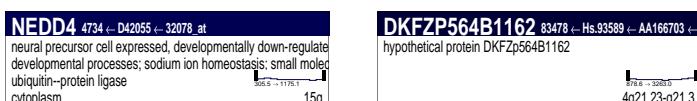
Network 11 (size 4)



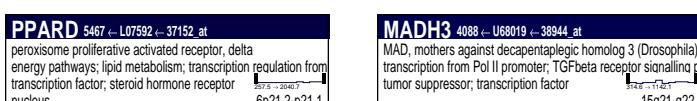
Network 12 (size 3)



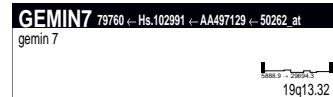
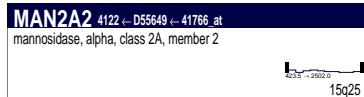
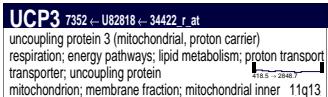
Network 13 (size 2)



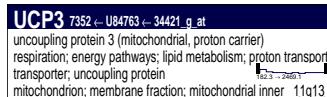
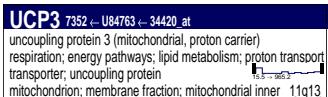
Network 14 (size 2)



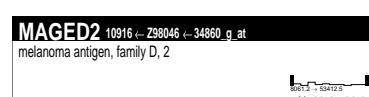
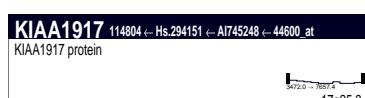
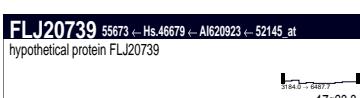
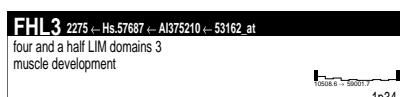
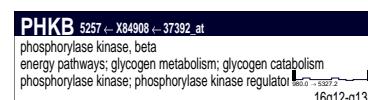
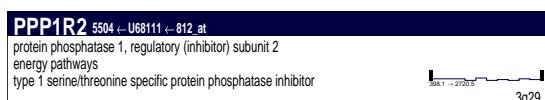
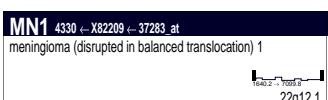
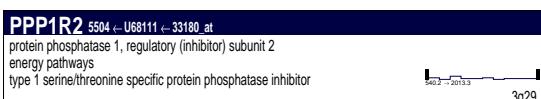
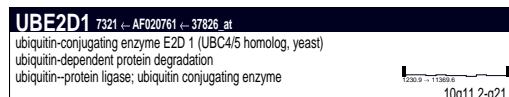
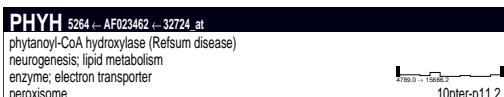
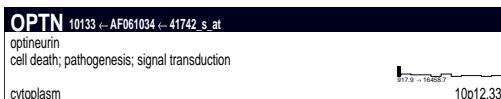
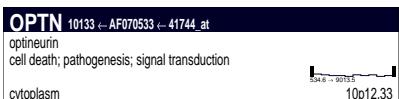
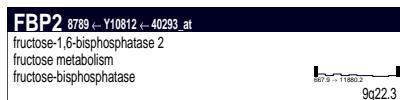
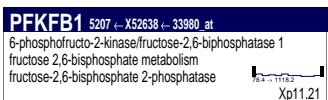
Network 15 (size 3)

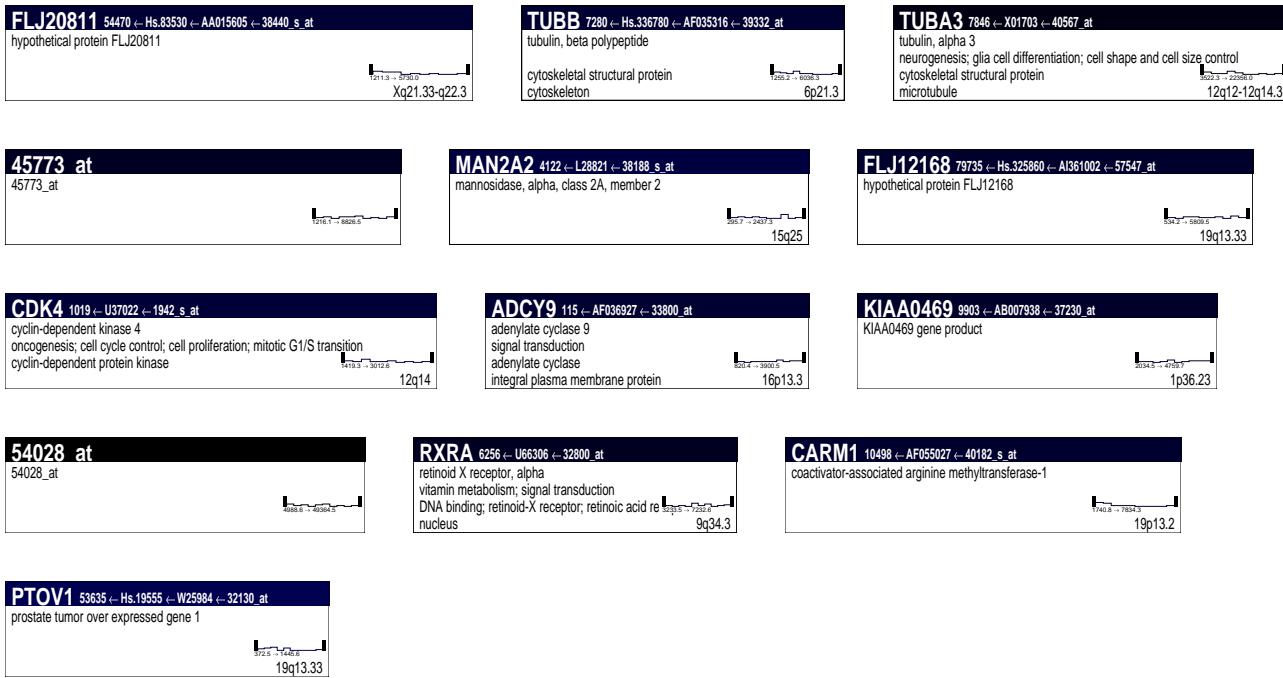


Network 16 (size 2)

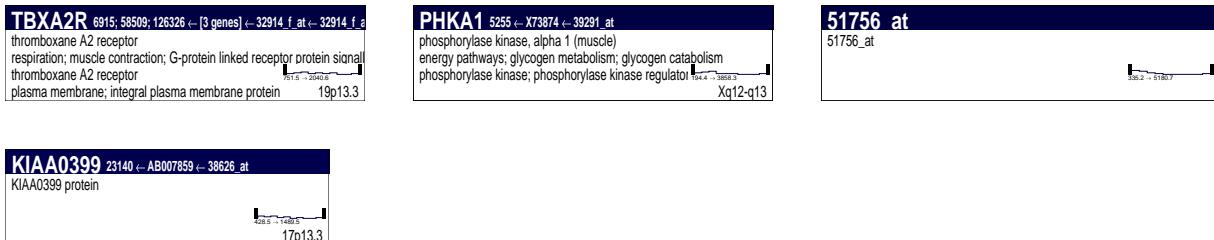


Network 17 (size 36)





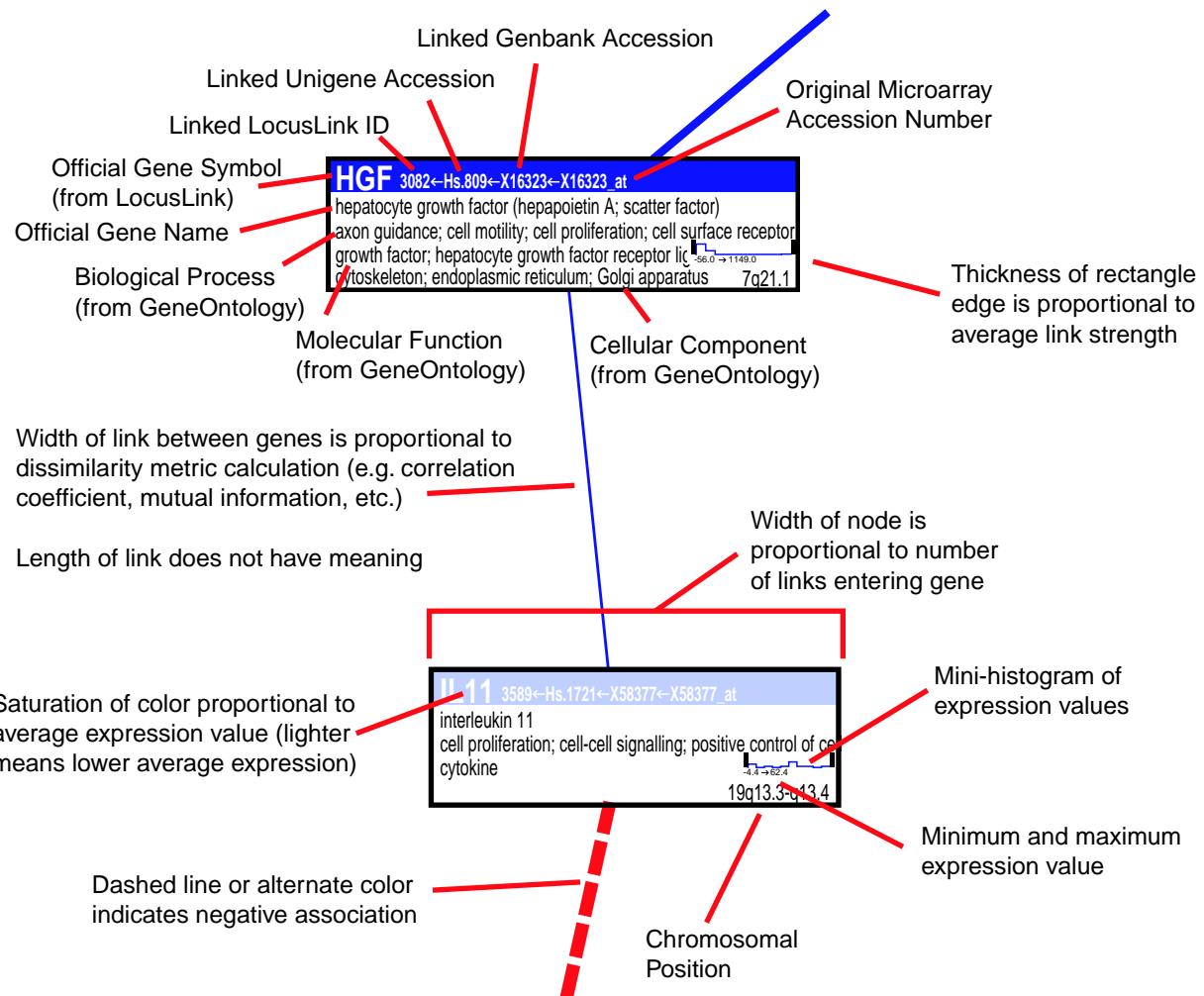
Network 18 (size 4)



End of Network Table of Contents

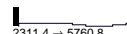
Relevance Networks

Legend



53149 at

53149_at



2311.4 → 5760.8

PDE4DIP 9659 ← Hs.265848 ← Al821791 ← 49961_at

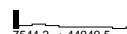
phosphodiesterase 4D interacting protein (myomegalin)



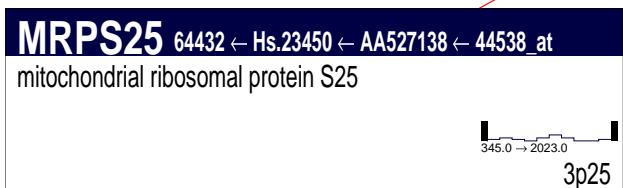
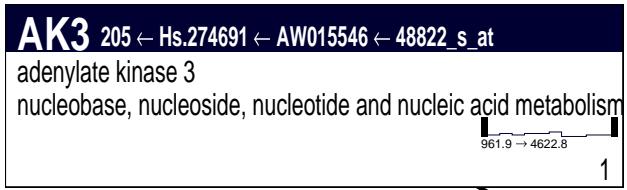
901.4 → 3690.4
1q12

46699 at

46699_at



7544.2 → 44949.5



PANK4 55229 ← Hs.26156 ← AA630975 ← 43960_at

pantothenate kinase 4



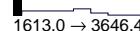
3410.4 → 8417.1

1p36.32

DOK1 1796 ← U70987 ← 816_g_at

docking protein 1, 62kD (downstream of tyrosine kinase 1)

signal transduction; cell surface receptor linked signal transducti
protein binding



1613.0 → 3646.4

2p13

45786 at

45786_at

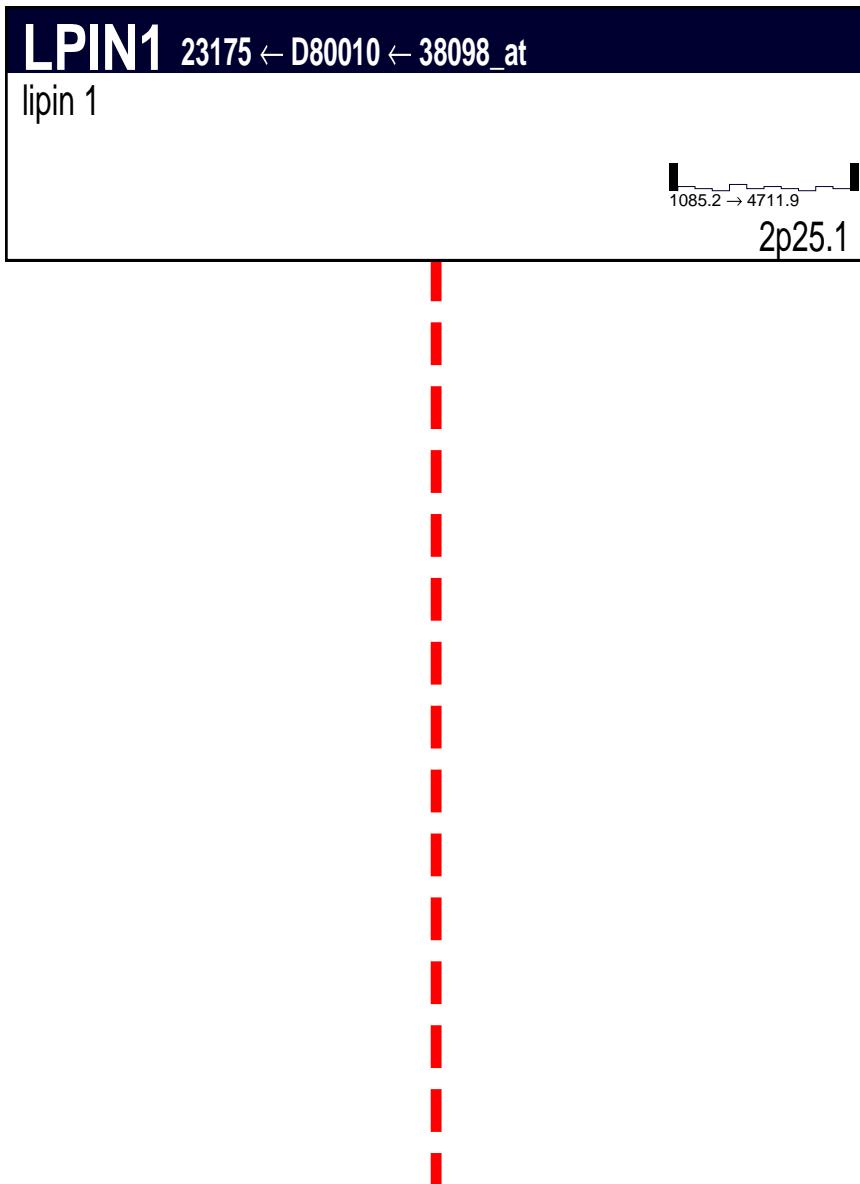
2618.7 → 13917.5

S100A4 6275 ← Hs.81256 ← W72186 ← 38087_s_at

S100 calcium binding protein A4 (calcium protein, calvasculin, m
invasive growth
calcium binding

2822.6 → 14719.9

1q21



PFKM 5213 ← U24183 ← 36196_at

phosphofructokinase, muscle
glucose metabolism; glycolysis regulation
phosphofructokinase

14426.8 → 40905.1

12q13.3

ATP2A1 487 ← U96781 ← 41769_at

ATPase, Ca++ transporting, cardiac muscle, fast twitch 1
small molecule transport; striated muscle contraction regulation
adenosinetriphosphatase; calcium-transporting A
smooth endoplasmic reticulum

95.5 → 71401.6

16p12.1

NFATC3 4775 ← L41067 ← 250_at

nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent inflammatory response; transcription from Pol II promoter; transcription co-activator; transcription activating

818.0 → 2424.9

16q13-q24

NFATC3 4775 ← L41067 ← 40822_at

nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent inflammatory response; transcription from Pol II promoter; transcription co-activator; transcription activating

581.7 → 1521.7

16q13-q24

TUBB 7280 ← J00314 ← 709_at
tubulin, beta polypeptide

cytoskeletal structural protein
cytoskeleton

2142.1 → 5591.8

6p21.3

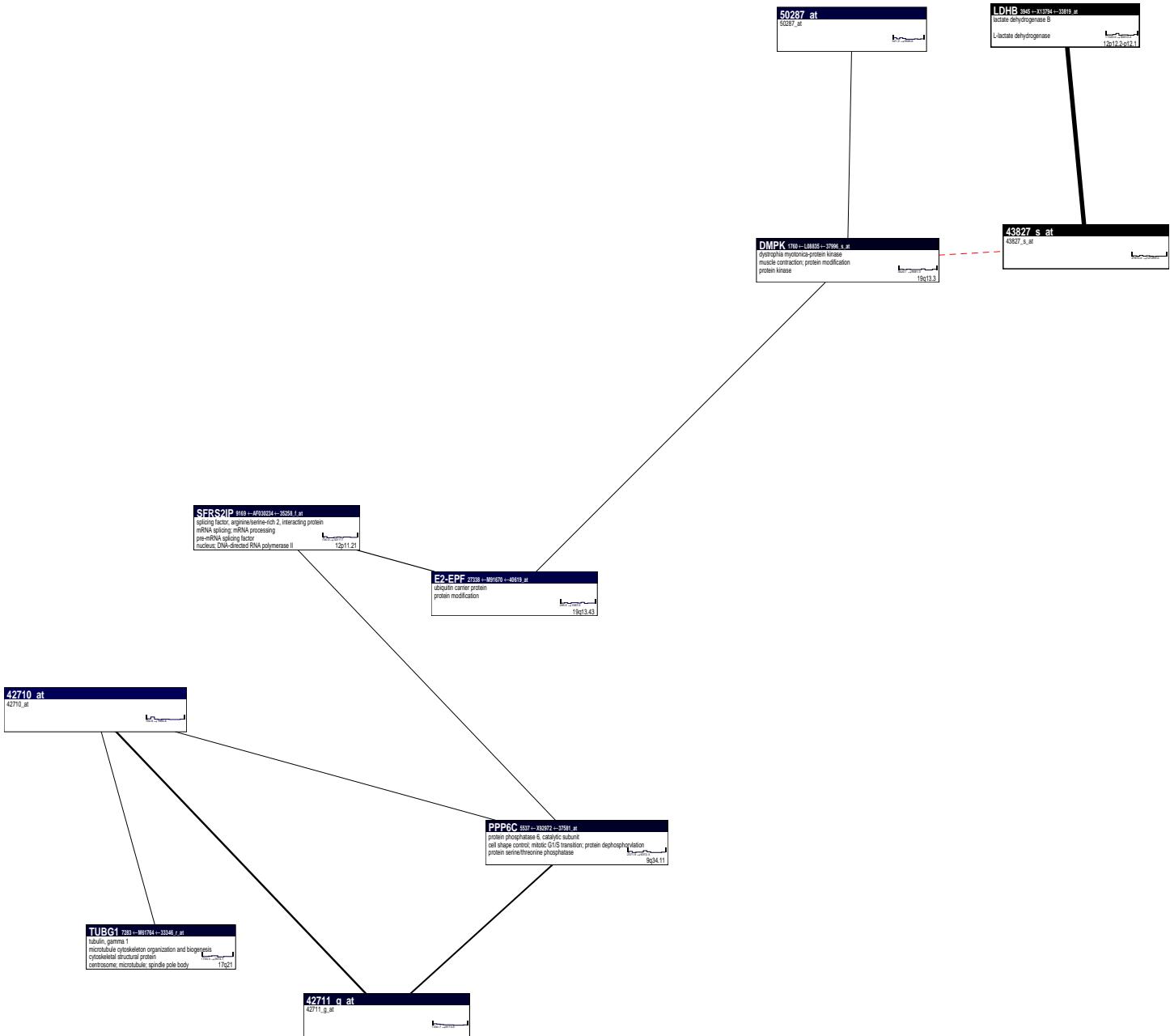


BCL6 604 ← U00115 ← 40091_at

B-cell CLL/lymphoma 6 (zinc finger protein 51)
oncogenesis; inflammatory response; transcription regulation; po
transcription factor
mediator complex

1444.3 → 10040.2

3q27



SH3GLB1 51100 ← AB007960 ← 39691_at

SH3-domain GRB2-like endophilin B1

3959.5 → 7638.2

1p22

ART3 419 ← U47054 ← 35134_at

ADP-ribosyltransferase 3

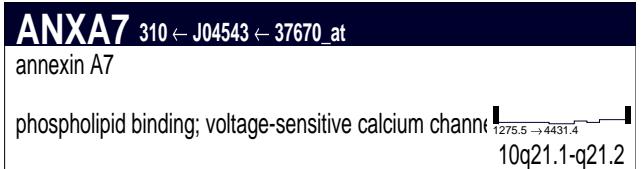
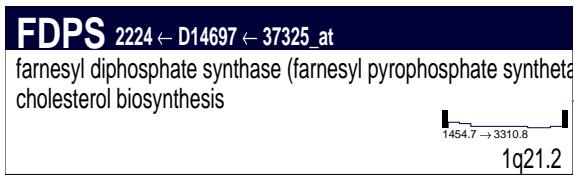
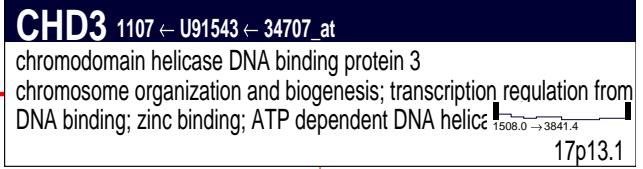
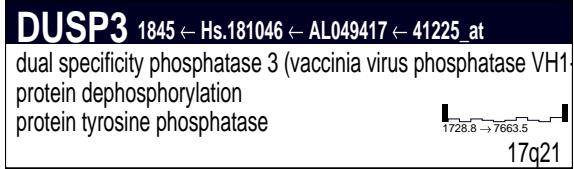
protein ADP-ribosylation

NAD(+) ADP-ribosyltransferase

integral plasma membrane protein

531.8 → 3247.0

4p15.1-p14



SYNE-2 23224 ← AL080133 ← 41815_at
synaptic nuclei expressed gene 2

1086.5 → 4111.3
14q23.1-q23.2

OAZ2 4947 ← AF057297 ← 36146_at
ornithine decarboxylase antizyme 2
polyamine metabolism
ornithine decarboxylase inhibitor

1459.3 → 4079.6
15q22.1

TBC1D4 9882 ← AB011175 ← 34672_at
TBC1 domain family, member 4

825.0 → 1921.4
13q21.33

DKFZP564B1162 83478 ← Hs.93589 ← AA166703 ←
hypothetical protein DKFZp564B1162

878.6 → 3263.0
4q21.23-q21.3



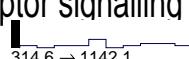
NEDD4 4734 ← D42055 ← 32078_at

neural precursor cell expressed, developmentally down-regulate
developmental processes; sodium ion homeostasis; small mole
ubiquitin--protein ligase
cytoplasm

305.5 → 1175.1
15q

MADH3 4088 ← U68019 ← 38944_at

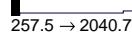
MAD, mothers against decapentaplegic homolog 3 (Drosophila)
transcription from Pol II promoter; TGFbeta receptor signalling p
tumor suppressor; transcription factor



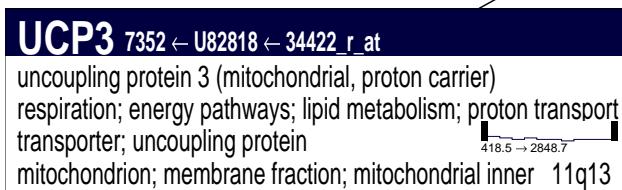
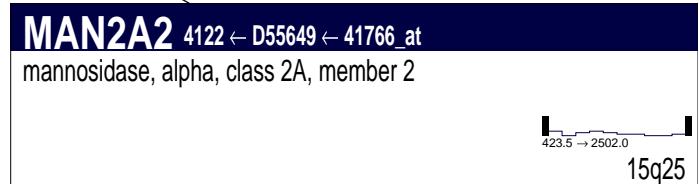
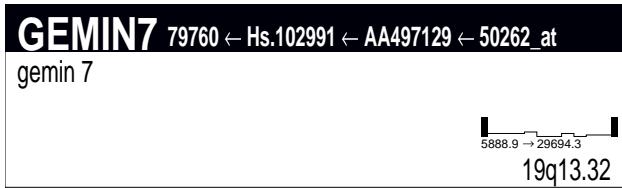
15q21-q22

PPARD 5467 ← L07592 ← 37152_at

peroxisome proliferative activated receptor, delta
energy pathways; lipid metabolism; transcription regulation from
transcription factor; steroid hormone receptor
nucleus

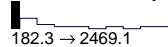


6p21.2-p21.1



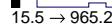
UCP3 7352 ← U84763 ← 34421_g_at

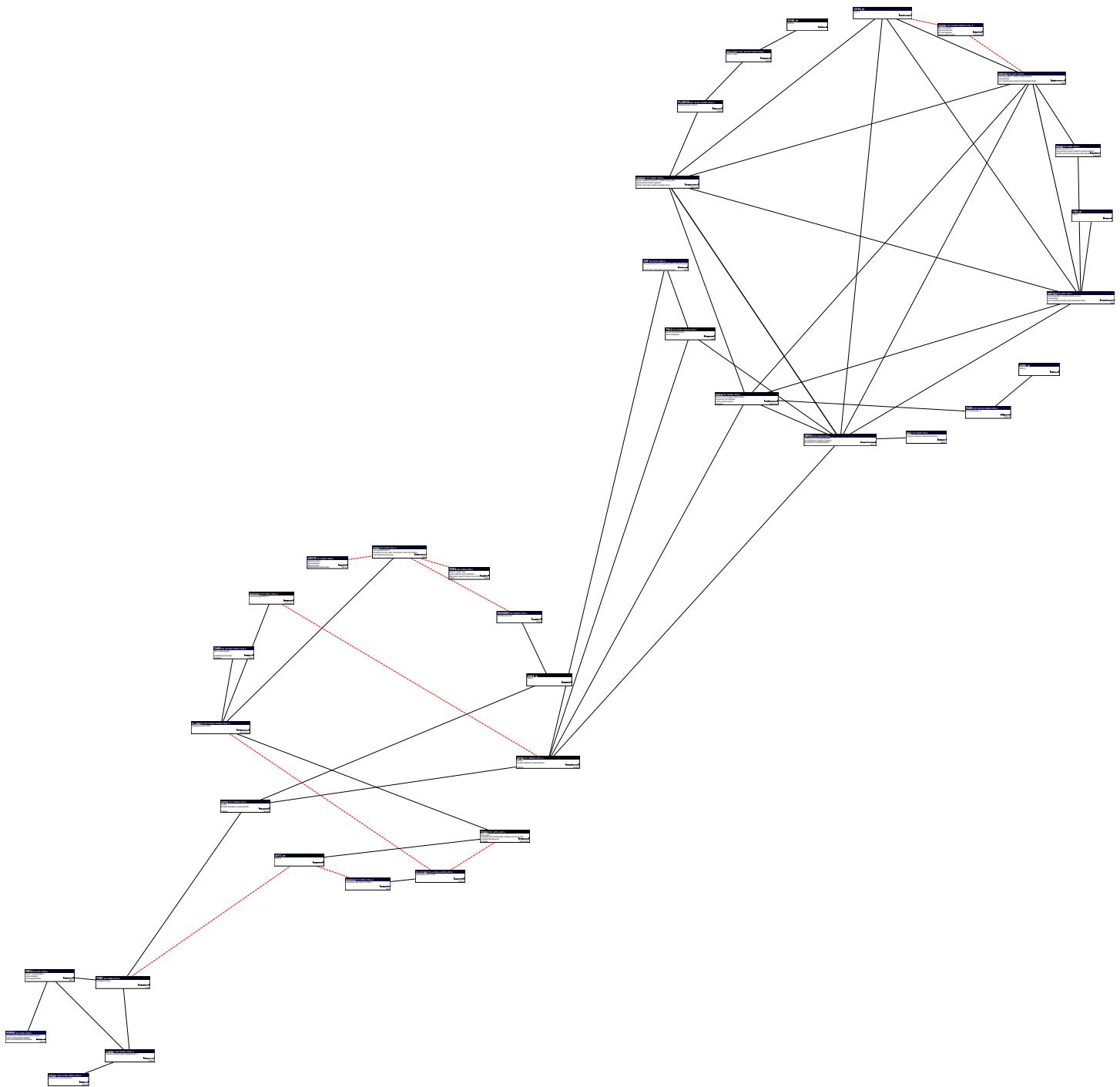
uncoupling protein 3 (mitochondrial, proton carrier)
respiration; energy pathways; lipid metabolism; proton transport
transporter; uncoupling protein
mitochondrion; membrane fraction; mitochondrial inner 11q13



UCP3 7352 ← U84763 ← 34420_at

uncoupling protein 3 (mitochondrial, proton carrier)
respiration; energy pathways; lipid metabolism; proton transport
transporter; uncoupling protein
mitochondrion; membrane fraction; mitochondrial inner 11q13





Network: 17 Networks constructed: 13:41 09/30/2002

