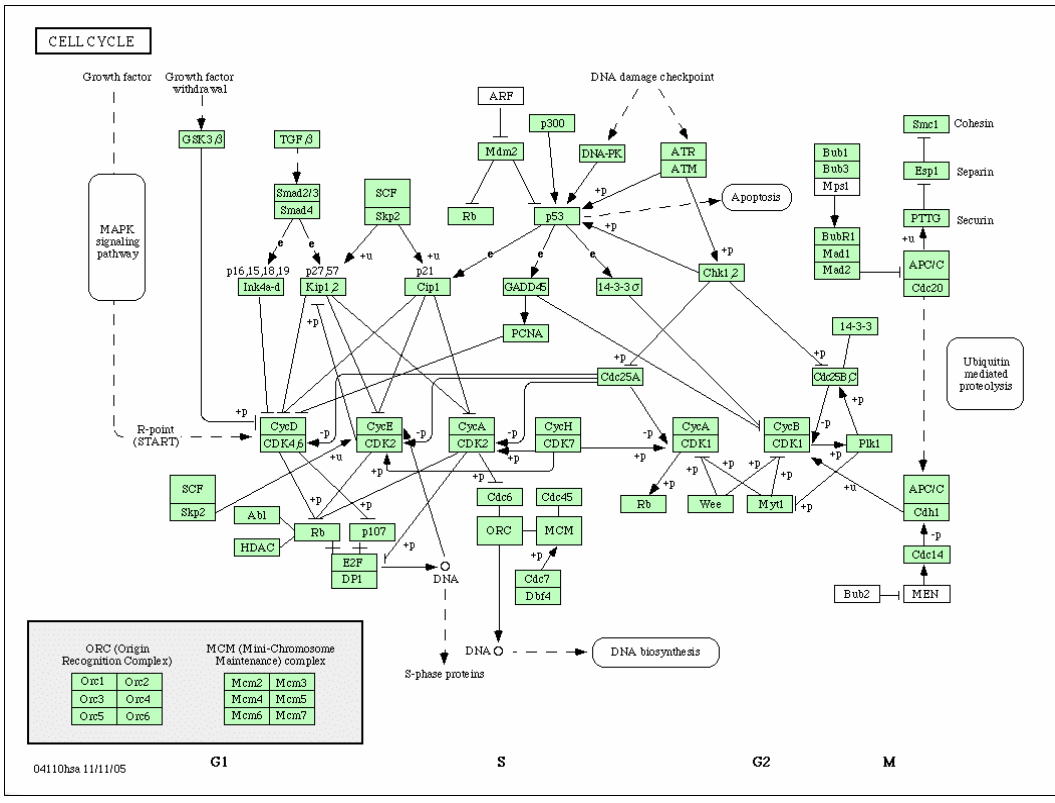
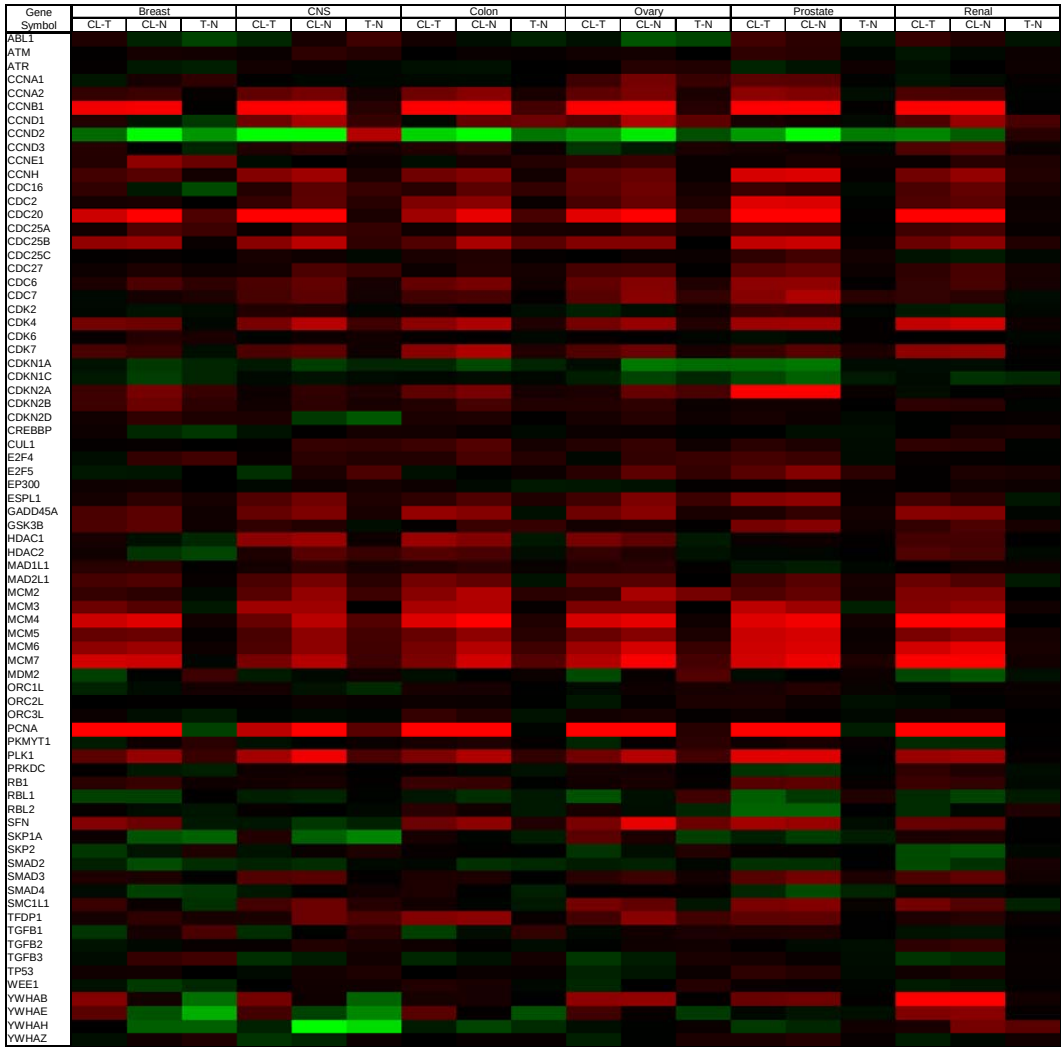
A


CELL CYCLE
Growth factor
Growth factor withdrawal
DNA damage checkpoint
ARF
p300
Mdm2
DNA-PK
ATR
ATM
Smc1
Cohesin
Bub1
Bub3
Mps1
Esp1
Separin
PTTG
Securin
Apoptosis
GSK3β
TGFβ
Smad2/3
Smad4
SCF
Skp2
Rb
p53
BubR1
Mad1
Mad2
APC/C
Cdc20
MAPK signaling pathway
p16,15,18,19
Ink4a-d
p27,57
Kip1,2
p21
Cip1
GADD45
14-3-3σ
Chk1,2
PCNA
14-3-3
Cdc25A
Cdc25B,C
Ubiquitin mediated proteolysis
R-point (START)
CycD
CDK4,6
CycE
CDK2
CycA
CDK2
CycH
CDK7
CycA
CDK1
CycB
CDK1
Plk1
SCF
Skp2
Abl
HDAC
Rb
p107
E2F
DP1
Cdc6
Cdc45
ORC
MCM
Cdc7
Dbf4
DNA
Rb
Wee
Myt1
APC/C
Cdh1
Cdc14
Bub2
MEN
DNA
S-phase proteins
DNA biosynthesis
ORC (Origin Recognition Complex)
Orc1 Orc2
Orc3 Orc4
Orc5 Orc6
MCM (Mini-Chromosome Maintenance) complex
Mcm2 Mcm3
Mcm4 Mcm5
Mcm6 Mcm7
04110hsa 11/11/05
G1
S
G2
M

B


Gene Symbol
Breast
CNS
Colon
Ovary
Prostate
Renal
CL-T CL-N T-N
ABL1
ATM
ATR
CCNA1
CCNA2
CCNB1
CCND1
CCND2
CCND3
CCNE1
CCNH
CDC16
CDC2
CDC20
CDC25A
CDC25B
CDC25C
CDC27
CDC6
CDC7
CDK2
CDK4
CDK6
CDK7
CDKN1A
CDKN1C
CDKN2A
CDKN2B
CDKN2D
CREBBP
CUL1
E2F4
E2F5
EP300
ESPL1
GADD45A
GSK3B
HDAC1
HDAC2
MAD1L1
MAD2L1
MCM2
MCM3
MCM4
MCM5
MCM6
MCM7
MDM2
ORC1L
ORC2L
ORC3L
PCNA
PKMYT1
PLK1
PRKDC
RB1
RBL1
RBL2
SFN
SKP1A
SKP2
SMAD2
SMAD3
SMAD4
SMC1L1
TFDP1
TGFB1
TGFB2
TGFB3
TP53
WEE1
YWHAB
YWHAE
YWHAH
YWHAZ