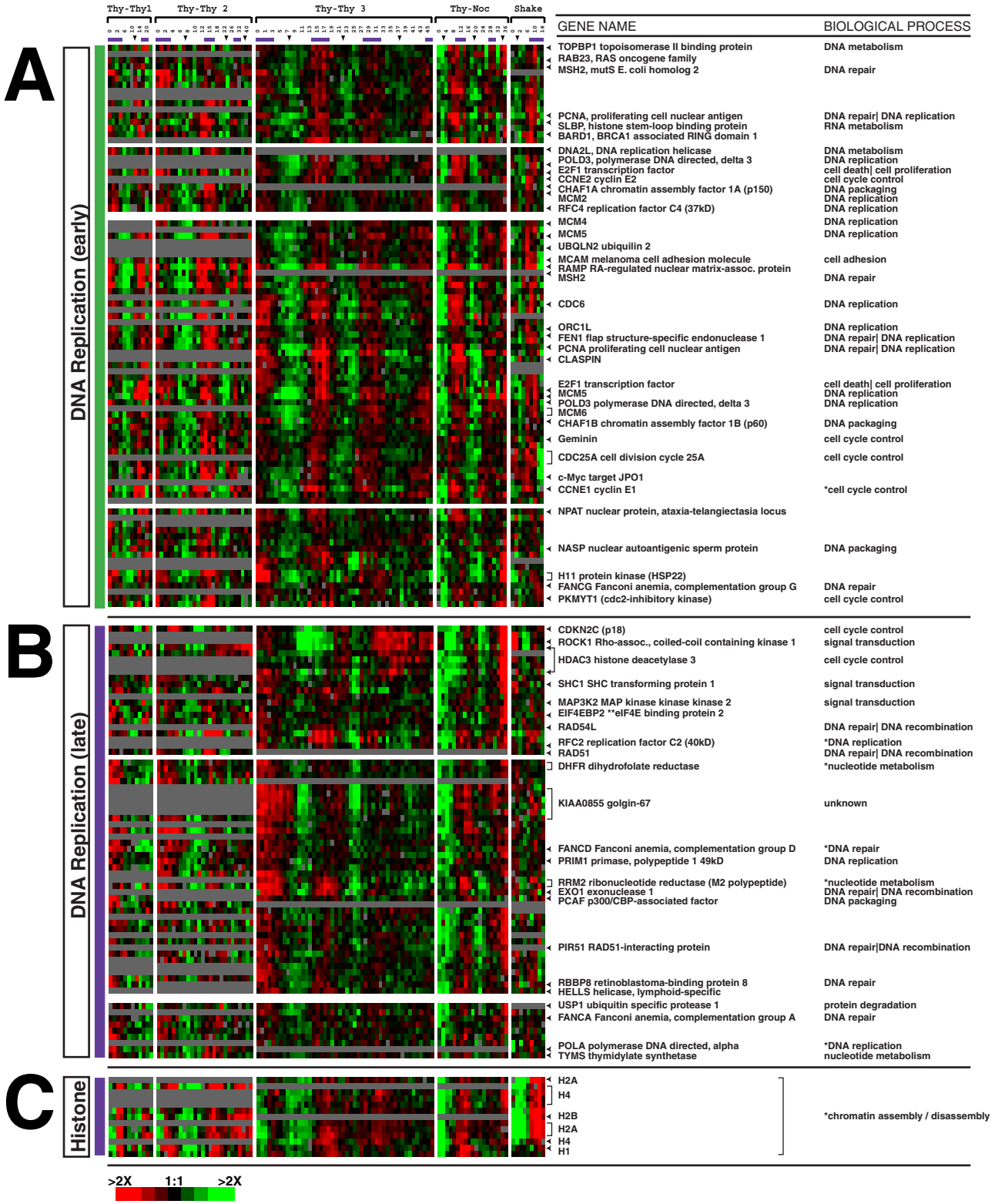
Figure 6


Thy-Thy1
Thy-Thy 2
Thy-Thy 3
Thy-Noc
Shake
A
DNA Replication (early)
GENE NAME
BIOLOGICAL PROCESS
TOPBP1 topoisomerase II binding protein
DNA metabolism
RAB23, RAS oncogene family
MSH2, mutS E. coli homolog 2
DNA repair
PCNA, proliferating cell nuclear antigen
DNA repair| DNA replication
SLBP, histone stem-loop binding protein
RNA metabolism
BARD1, BRCA1 associated RING domain 1
DNA2L, DNA replication helicase
DNA metabolism
POLD3, polymerase DNA directed, delta 3
DNA replication
E2F1 transcription factor
cell death| cell proliferation
CCNE2 cyclin E2
cell cycle control
CHAF1A chromatin assembly factor 1A (p150)
DNA packaging
MCM2
DNA replication
RFC4 replication factor C4 (37kD)
DNA replication
MCM4
DNA replication
MCM5
DNA replication
UBQLN2 ubiquilin 2
MCAM melanoma cell adhesion molecule
cell adhesion
RAMP RA-regulated nuclear matrix-assoc. protein
MSH2
DNA repair
CDC6
DNA replication
ORC1L
DNA replication
FEN1 flap structure-specific endonuclease 1
DNA repair| DNA replication
PCNA proliferating cell nuclear antigen
DNA repair| DNA replication
CLASPIN
E2F1 transcription factor
cell death| cell proliferation
MCM5
DNA replication
POLD3 polymerase DNA directed, delta 3
DNA replication
MCM6
CHAF1B chromatin assembly factor 1B (p60)
DNA packaging
Geminin
cell cycle control
CDC25A cell division cycle 25A
cell cycle control
c-Myc target JPO1
CCNE1 cyclin E1
*cell cycle control
NPAT nuclear protein, ataxia-telangiectasia locus
NASP nuclear autoantigenic sperm protein
DNA packaging
H11 protein kinase (HSP22)
FANCG Fanconi anemia, complementation group G
DNA repair
PKMYT1 (cdc2-inhibitory kinase)
cell cycle control
B
DNA Replication (late)
CDKN2C (p18)
cell cycle control
ROCK1 Rho-assoc., coiled-coil containing kinase 1
signal transduction
HDAC3 histone deacetylase 3
cell cycle control
SHC1 SHC transforming protein 1
signal transduction
MAP3K2 MAP kinase kinase kinase 2
signal transduction
EIF4EBP2 **eIF4E binding protein 2
RAD54L
DNA repair| DNA recombination
RFC2 replication factor C2 (40kD)
*DNA replication
RAD51
DNA repair| DNA recombination
DHFR dihydrofolate reductase
*nucleotide metabolism
KIAA0855 golgin-67
unknown
FANCD Fanconi anemia, complementation group D
*DNA repair
PRIM1 primase, polypeptide 1 49kD
DNA replication
RRM2 ribonucleotide reductase (M2 polypeptide)
*nucleotide metabolism
EXO1 exonuclease 1
DNA repair| DNA recombination
PCAF p300/CBP-associated factor
DNA packaging
PIR51 RAD51-interacting protein
DNA repair|DNA recombination
RBBP8 retinoblastoma-binding protein 8
DNA repair
HELLS helicase, lymphoid-specific
USP1 ubiquitin specific protease 1
protein degradation
FANCA Fanconi anemia, complementation group A
DNA repair
POLA polymerase DNA directed, alpha
*DNA replication
TYMS thymidylate synthetase
nucleotide metabolism
C
Histone
H2A
H4
H2B
H2A
H4
H1
*chromatin assembly / disassembly
>2X
1:1
>2X