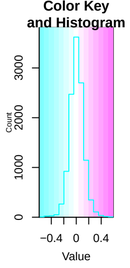
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ARP9_TSQ495
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MPH1
SKN7
SPA2
YAR1
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STB4
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REH1
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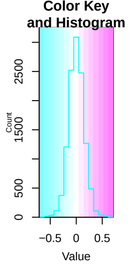

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DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
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WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
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RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
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ARP9_TSQ495
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REE1
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GCN3
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
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ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
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ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
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ADH3
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OCA1
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AAH1
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TDH1
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PDI1_DAmP
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REH1
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ABF2
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NTER3XFLAG WT
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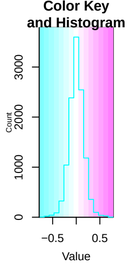

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DPB4
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TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
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TDH3
HTZ1
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DEP1
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RCO1
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SPT8
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RNA1_TSQ172
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IES1
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GBP2
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SWI3
STM1
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IES2
ARP9_TSQ495
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MSH2
PDR1
YKU80
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GCN3
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STI1
OYE2
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
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SRY1
IOC2
ISW1
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TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
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RAD6
CDC3_TSQ130
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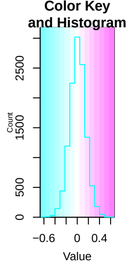

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GRX1
IOC3
PTC3
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IOC2
ISW1
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TAF9_TSQ730
RFC5_TSQ887
YAP1
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ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
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RAD6
CDC3_TSQ130
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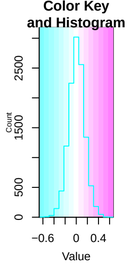
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Color Key
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YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
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ALD4
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DEP1
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RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
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NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
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ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
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REH1
GDH1
ABF2
CST6
LCL2
AAT1
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TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
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T34D
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E115I
Q147L
E115A
K129I
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F58A
N102M
R108D
K132H
N105V
T34N
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T139A
GSP1−NAT
F58L
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H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
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NTER3XFLAG WT
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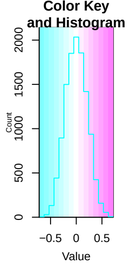

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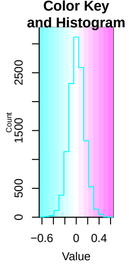

lipid metabolic process

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SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
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RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
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T137G
T139A
GSP1−NAT
F58L
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K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
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H141R
R108Y
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R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
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1500
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
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HAL5
UBP15
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RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
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RPL6B
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RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
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NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
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TDH1
EGD1
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PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
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ADE5.7
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NOP2_TSQ630
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Y157A
D79A
T34G
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DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
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SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
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RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
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HRI1
MAE1
RFC3_DAMP
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SVF1
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ITC1
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HEF3
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MSN1
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SRL2
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RPL36A
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RTG3
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RPL9A
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HMO1
RPS0B
RRP8
YOL098C
ZUO1
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AZF1
RPL24A
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NOP6
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VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
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RPO21_DAmP
YGR054W
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IRC20
REH1
GDH1
ABF2
CST6
LCL2
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AIM41
TAF5_TSQ509
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YCR087C.A
ADE5.7
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NOP2_TSQ624
NOP2_TSQ630
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RFM1
DBP3
PUF6
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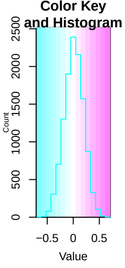

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YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
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RVB2_DAMP
MUK1
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HEF3
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MSN1
MSH3
YNL134C
SRL2
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KRS1_DAMP
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RPL37A
RPL6B
RPL36A
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RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
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AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
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TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
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T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
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K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
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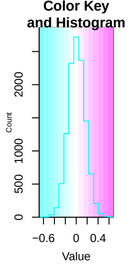

cellular bud_GO_30_1

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YRB1_TSQ582
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DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
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1000
1500
2000
−0.6
0
0.4
Value
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SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
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500
1000
1500
2000
−0.5
0
0.5
Value
organelle fission_GO_30_4
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SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
K141V
K143W

Color Key
and Histogram
Count
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500
1000
1500
2000
−0.5
0
0.5
Value
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SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
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1500
2000
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Value
cytoskeleton and microtubules_GO_30_8
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SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
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1500
2000
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Value
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SLX9
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SRM1_TSQ958
YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
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RRP8
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NOP6
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VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
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TDH1
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SCJ1
MPH1
SKN7
SPA2
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T34D
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K129F
N102K
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E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
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F58L
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H141E
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D79A
T34G
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D79S
T34E
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G80A
Q147E
T34A
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CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
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HIR1
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HIR2
HIR3
RPC19_DAMP
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PTC3
RIM1
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DEP1
SIN3
RCO1
URA7
MGM101
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RNA1_TSQ172
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GBP2
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STM1
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ARP9_TSQ495
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RPC19_DAMP
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TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
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SUB1
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TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
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IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
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GCN3
ADR1
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STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
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SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
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HOS3
RBG1
ADH3
HHO1
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RFC3_DAMP
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UBP15
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RVB2_DAMP
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ITC1
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HEF3
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MSN1
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RPS29A
RTG3
RPL31B
RPL9A
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RRP8
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NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
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TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
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YGR054W
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STB4
YRB30
APA1
THI20
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GDH1
ABF2
CST6
LCL2
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ADE5.7
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RFM1
DBP3
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CTER3XFLAG WT
NTER3XFLAG WT
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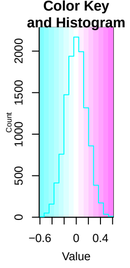

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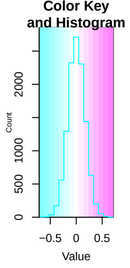

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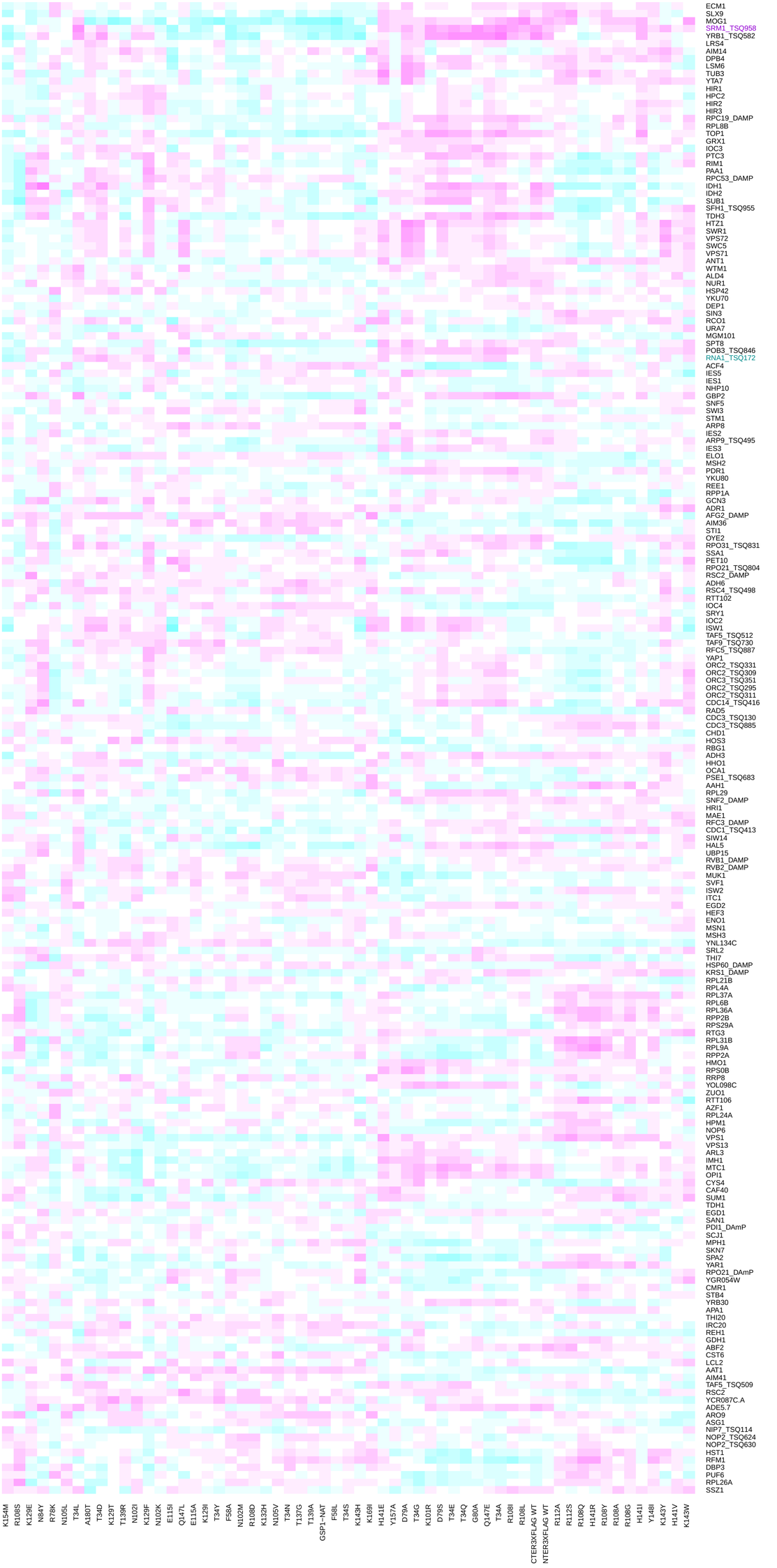

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DPB4
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TUB3
YTA7
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
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GCN3
ADR1
AFG2_DAMP
AIM36
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OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
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SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
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ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
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ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
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RPS0B
RRP8
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ZUO1
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MTC1
OPI1
CYS4
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TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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YCR087C.A
ADE5.7
ARO9
ASG1
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NOP2_TSQ630
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RFM1
DBP3
PUF6
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SSZ1
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E115A
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H141E
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D79A
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D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
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R108Y
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Y148I
K143Y
H141V
K143W

Color Key
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YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
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IES1
NHP10
GBP2
SNF5
SWI3
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ARP9_TSQ495
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MSH2
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GCN3
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OYE2
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
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SRY1
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ISW1
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TAF9_TSQ730
RFC5_TSQ887
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ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
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MTC1
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PDI1_DAmP
SCJ1
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SKN7
SPA2
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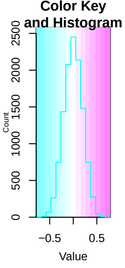
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MTC1
OPI1
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SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
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REH1
GDH1
ABF2
CST6
LCL2
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AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
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ASG1
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NOP2_TSQ624
NOP2_TSQ630
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DBP3
PUF6
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R78K
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T34D
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K129F
N102K
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Q147L
E115A
K129I
T34Y
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K132H
N105V
T34N
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T139A
GSP1−NAT
F58L
T34S
K143H
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Y157A
D79A
T34G
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D79S
T34E
T34Q
G80A
Q147E
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R108L
CTER3XFLAG WT
NTER3XFLAG WT
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R108Y
R108A
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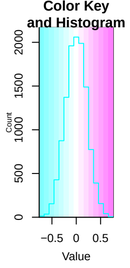
H141V
K143W



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DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
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TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
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AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
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HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
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SVF1
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RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
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AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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TAF5_TSQ509
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F58A
N102M
R108D
K132H
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T139A
GSP1−NAT
F58L
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K169I
H141E
Y157A
D79A
T34G
K101R
D79S
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T34Q
G80A
Q147E
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R108L
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NTER3XFLAG WT
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YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
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RPP1A
GCN3
ADR1
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STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
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KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
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RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
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SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
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RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
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ASG1
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NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
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SSZ1
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R108S
K129E
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R78K
N105L
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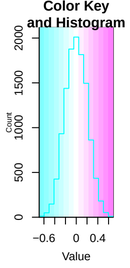

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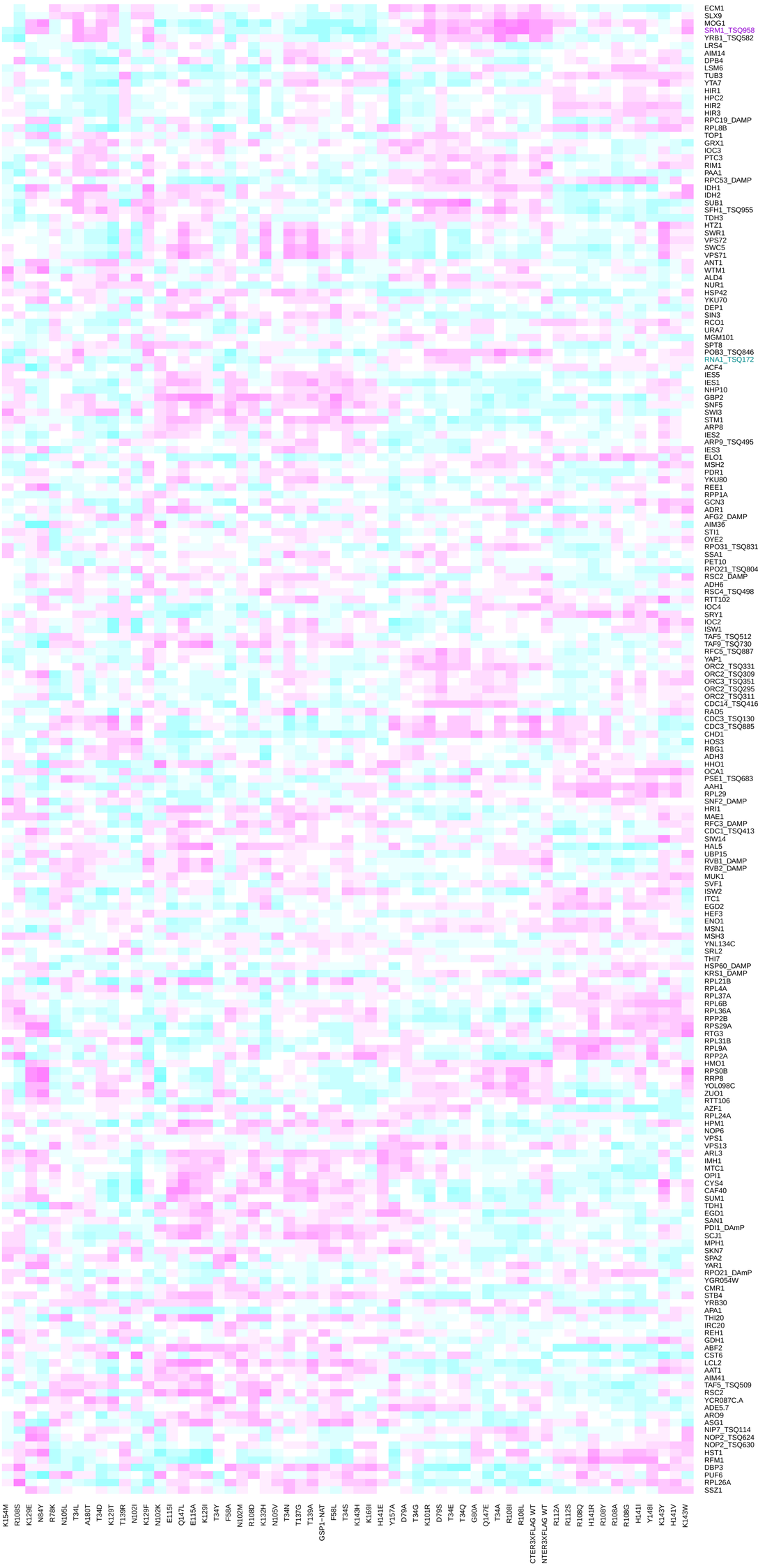

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DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
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GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
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ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
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HRI1
MAE1
RFC3_DAMP
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SVF1
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HMO1
RPS0B
RRP8
YOL098C
ZUO1
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NOP6
VPS1
VPS13
ARL3
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MTC1
OPI1
CYS4
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PDI1_DAmP
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ABF2
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NOP2_TSQ630
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R108L
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NTER3XFLAG WT
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Y148I
K143Y
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K143W

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DPB4
LSM6
TUB3
YTA7
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
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SWI3
STM1
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IES2
ARP9_TSQ495
IES3
ELO1
MSH2
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AFG2_DAMP
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
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SRY1
IOC2
ISW1
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TAF9_TSQ730
RFC5_TSQ887
YAP1
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ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
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HHO1
OCA1
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AAH1
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MAE1
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RVB2_DAMP
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RPL6B
RPL36A
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RTG3
RPL31B
RPL9A
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HMO1
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RRP8
YOL098C
ZUO1
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OPI1
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SCJ1
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ALD4
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DEP1
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RCO1
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MGM101
SPT8
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IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
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GCN3
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AFG2_DAMP
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PET10
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ADH6
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SRY1
IOC2
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TAF9_TSQ730
RFC5_TSQ887
YAP1
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ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
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CDC3_TSQ130
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RPC19_DAMP
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PAA1
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YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
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RNA1_TSQ172
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IES5
IES1
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GBP2
SNF5
SWI3
STM1
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ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD5
CDC3_TSQ130
CDC3_TSQ885
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HHO1
OCA1
PSE1_TSQ683
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RPL29
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MAE1
RFC3_DAMP
CDC1_TSQ413
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SVF1
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MPH1
SKN7
SPA2
YAR1
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YRB30
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SSZ1
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Y157A
D79A
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D79S
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T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
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R108Y
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R108G
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Y148I
K143Y
H141V
K143W

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1500
2000
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0
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YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
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SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
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SVF1
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HEF3
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RTG3
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RPP2A
HMO1
RPS0B
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RPL24A
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VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
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RPO21_DAmP
YGR054W
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STB4
YRB30
APA1
THI20
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REH1
GDH1
ABF2
CST6
LCL2
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TAF5_TSQ509
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YCR087C.A
ADE5.7
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NOP2_TSQ630
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RFM1
DBP3
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T139A
GSP1−NAT
F58L
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H141E
Y157A
D79A
T34G
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D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
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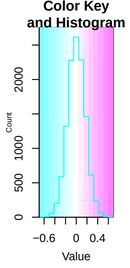

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DPB4
LSM6
TUB3
YTA7
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
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YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
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GCN3
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
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SRY1
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TAF9_TSQ730
RFC5_TSQ887
YAP1
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ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
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RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
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MAE1
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RPL37A
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VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
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YAR1
RPO21_DAmP
YGR054W
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STB4
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APA1
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K143W

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DPB4
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TUB3
YTA7
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HPC2
HIR2
HIR3
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GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
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IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
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ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
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RNA1_TSQ172
ACF4
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IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
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ARP9_TSQ495
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ELO1
MSH2
PDR1
YKU80
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GCN3
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AIM36
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OYE2
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
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IOC4
SRY1
IOC2
ISW1
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TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
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ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
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HRI1
MAE1
RFC3_DAMP
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RVB2_DAMP
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HEF3
ENO1
MSN1
MSH3
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KRS1_DAMP
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OPI1
CYS4
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SCJ1
MPH1
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SPA2
YAR1
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YRB30
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ABF2
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LCL2
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RSC2
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ADE5.7
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Y157A
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T34G
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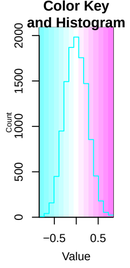

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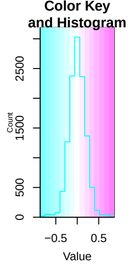
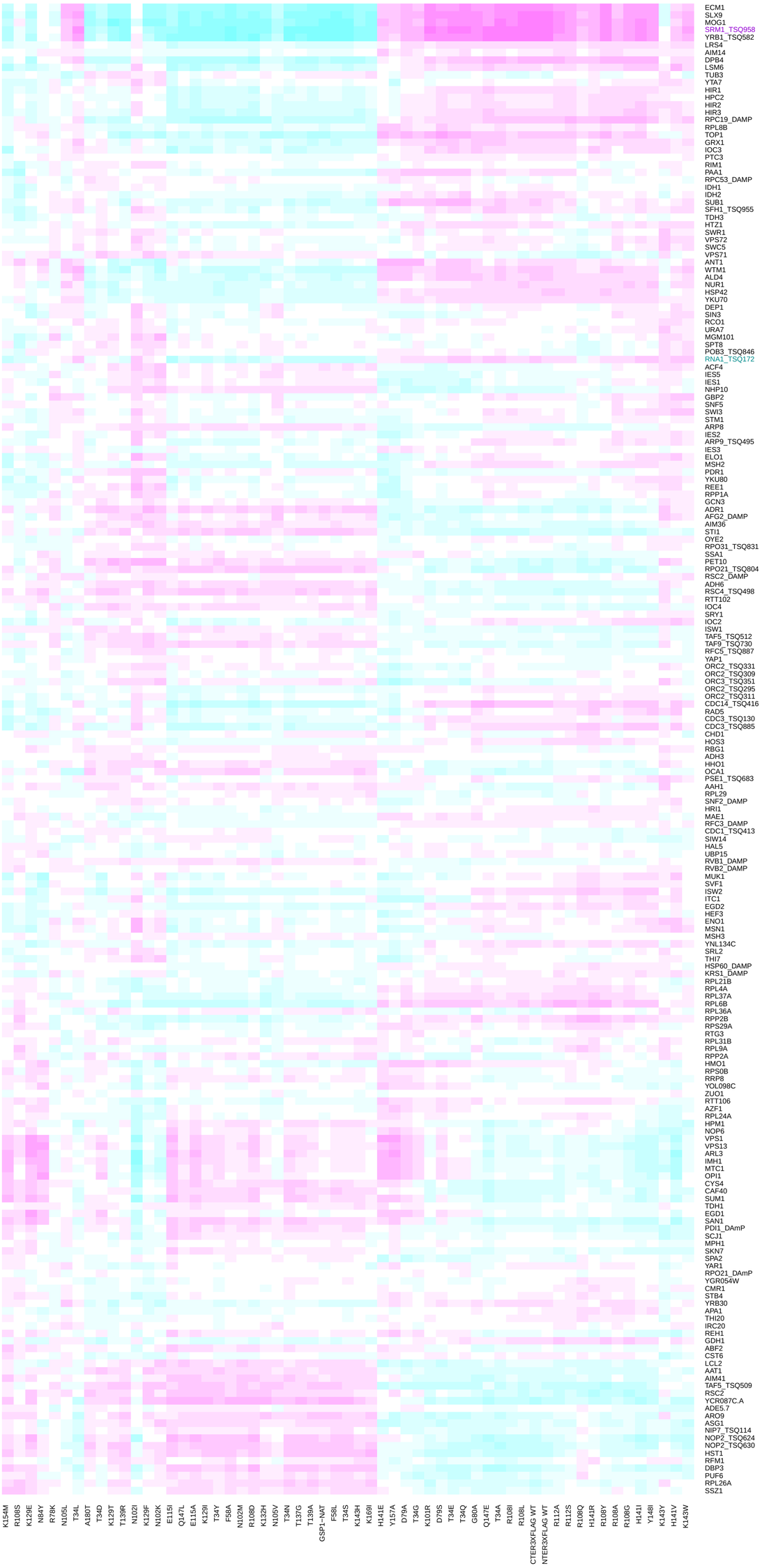


protein targeting



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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
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PTC3
RIM1
PAA1
RPC53_DAMP
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SFH1_TSQ955
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ALD4
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YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
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RNA1_TSQ172
ACF4
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GBP2
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ADH6
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SRY1
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ISW1
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TAF9_TSQ730
RFC5_TSQ887
YAP1
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ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
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RAD6
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CDC3_TSQ885
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OCA1
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MAE1
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ABF2
CST6
LCL2
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NOP2_TSQ630
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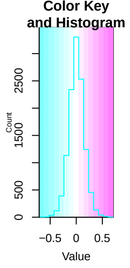

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ADH6
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SRY1
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ISW1
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TAF9_TSQ730
RFC5_TSQ887
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ORC2_TSQ311
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SKN7
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GDH1
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CST6
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HPC2
HIR2
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RPC19_DAMP
RPL8B
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GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
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IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
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VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
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SPT8
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RNA1_TSQ172
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GBP2
SNF5
SWI3
STM1
ARP8
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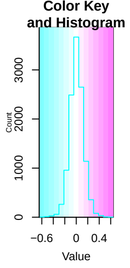

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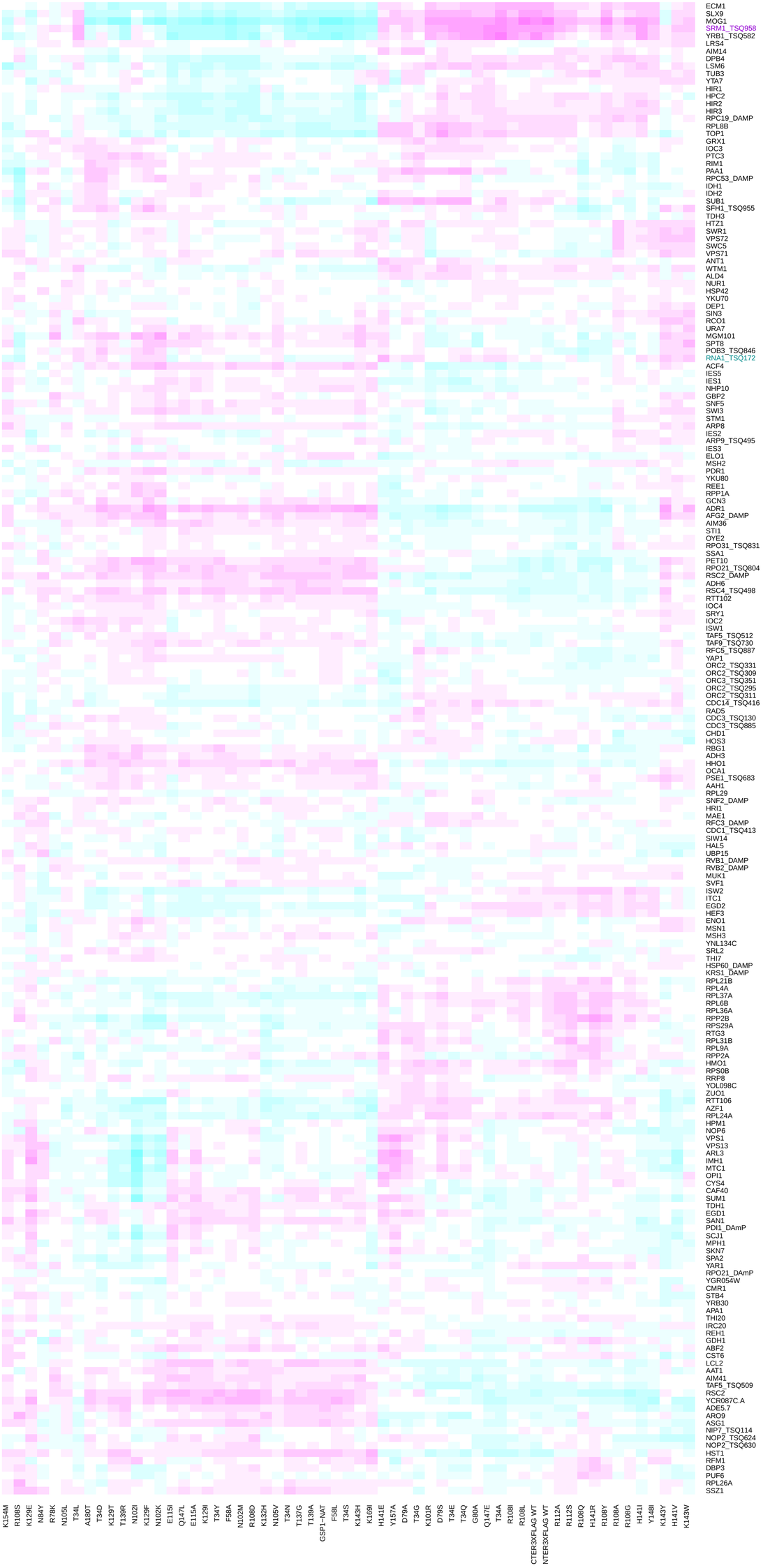

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ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
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RAD6
CDC3_TSQ130
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NOP2_TSQ630
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PUF6
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Y157A
D79A
T34G
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D79S
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G80A
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R108L
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NTER3XFLAG WT
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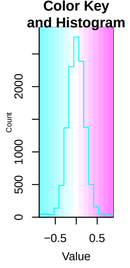

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DPB4
LSM6
TUB3
YTA7
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HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
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TDH3
HTZ1
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SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
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ELO1
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GCN3
ADR1
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AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
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ADH6
RSC4_TSQ498
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IOC4
SRY1
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ISW1
TAF5_TSQ512
TAF9_TSQ730
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ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
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RAD6
CDC3_TSQ130
CDC3_TSQ885
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ADH3
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SPA2
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TAF9_TSQ730
RFC5_TSQ887
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ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
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CDC3_TSQ885
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RBG1
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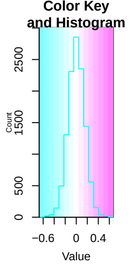

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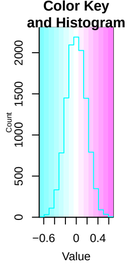

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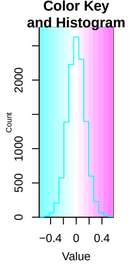

proteolysis involved in cellular protein catabolic process

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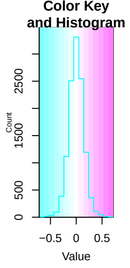

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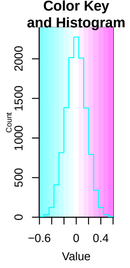

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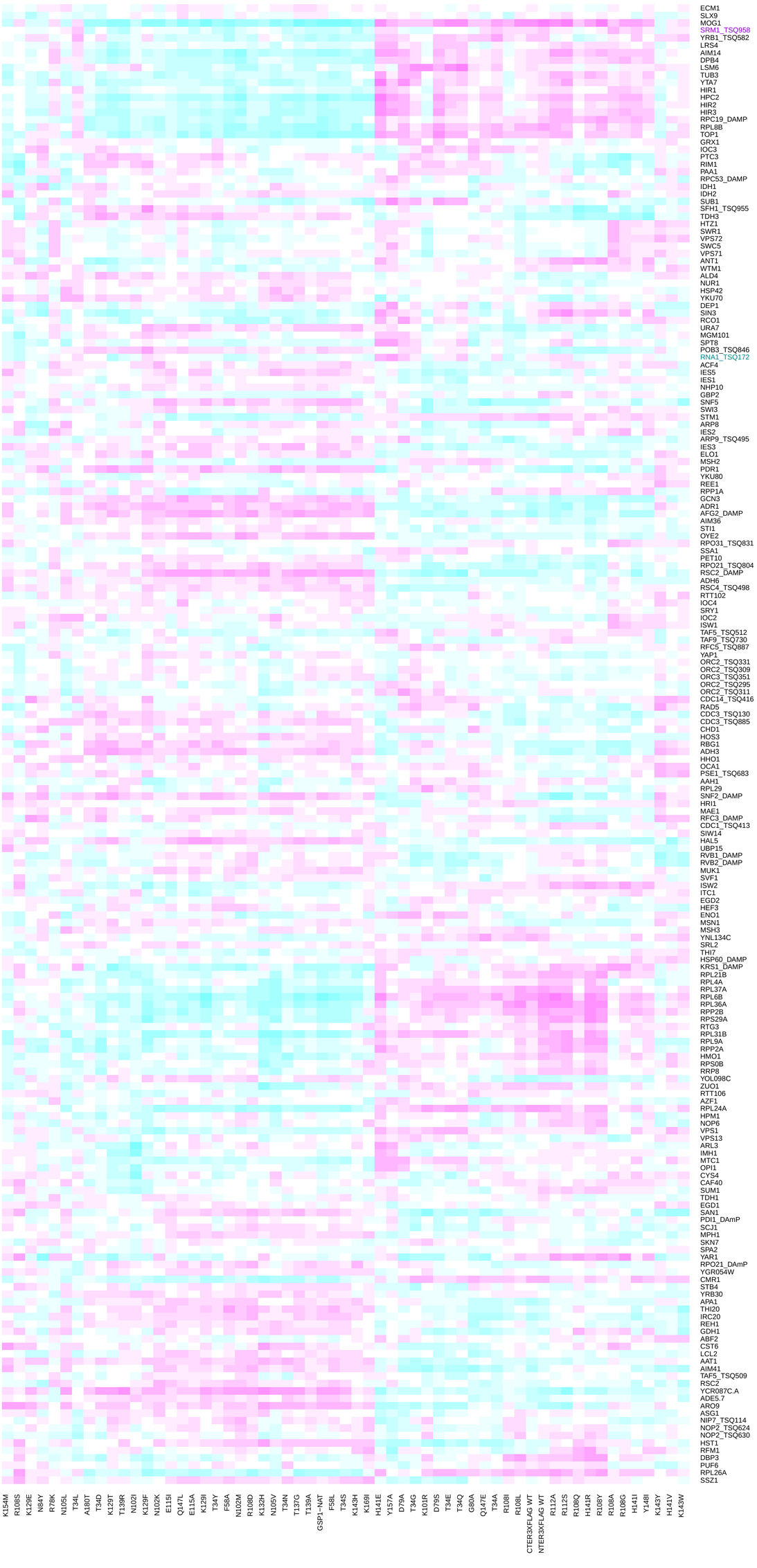

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HPC2
HIR2
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RPC19_DAMP
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TOP1
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RNA1_TSQ172
ACF4
IES5
IES1
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GBP2
SNF5
SWI3
STM1
ARP8
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ARP9_TSQ495
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ORC3_TSQ351
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ORC2_TSQ311
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TUB3
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HPC2
HIR2
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RPC19_DAMP
RPL8B
TOP1
GRX1
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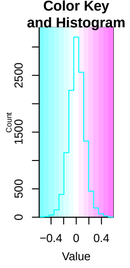
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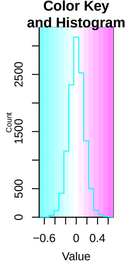

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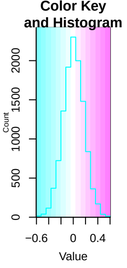

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AIM14
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LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
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SUB1
SFH1_TSQ955
TDH3
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Y148I
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HIR3
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TOP1
GRX1
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PTC3
RIM1
PAA1
RPC53_DAMP
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IDH2
SUB1
SFH1_TSQ955
TDH3
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VPS72
SWC5
VPS71
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ALD4
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YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
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AIM36
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OYE2
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SSA1
PET10
RPO21_TSQ804
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ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
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SRL2
THI7
HSP60_DAMP
KRS1_DAMP
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RPL6B
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RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
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TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
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K169I
H141E
Y157A
D79A
T34G
K101R
D79S
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G80A
Q147E
T34A
R108I
R108L
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NTER3XFLAG WT
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R112S
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DPB4
LSM6
TUB3
YTA7
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
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GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
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YCR087C.A
ADE5.7
ARO9
ASG1
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NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K160I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
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Y148I
K143Y
H141V
K143W

Color Key
and Histogram
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DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
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RVB2_DAMP
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ITC1
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HEF3
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MSN1
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SRL2
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KRS1_DAMP
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RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
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RPL24A
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NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
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APA1
THI20
IRC20
REH1
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ABF2
CST6
LCL2
AAT1
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TAF5_TSQ509
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NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
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R108S
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E115A
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R108D
K132H
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F58L
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K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
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R108L
CTER3XFLAG WT
NTER3XFLAG WT
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DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
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HRI1
MAE1
RFC3_DAMP
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SIW14
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UBP15
RVB1_DAMP
RVB2_DAMP
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SVF1
ISW2
ITC1
EGD2
HEF3
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MSN1
MSH3
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SRL2
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KRS1_DAMP
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RPL37A
RPL6B
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HMO1
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VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
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SSZ1
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K129E
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Q147L
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K129I
T34Y
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R108D
K132H
N105V
T34N
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T139A
GSP1−NAT
F58L
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K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
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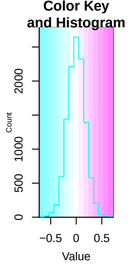
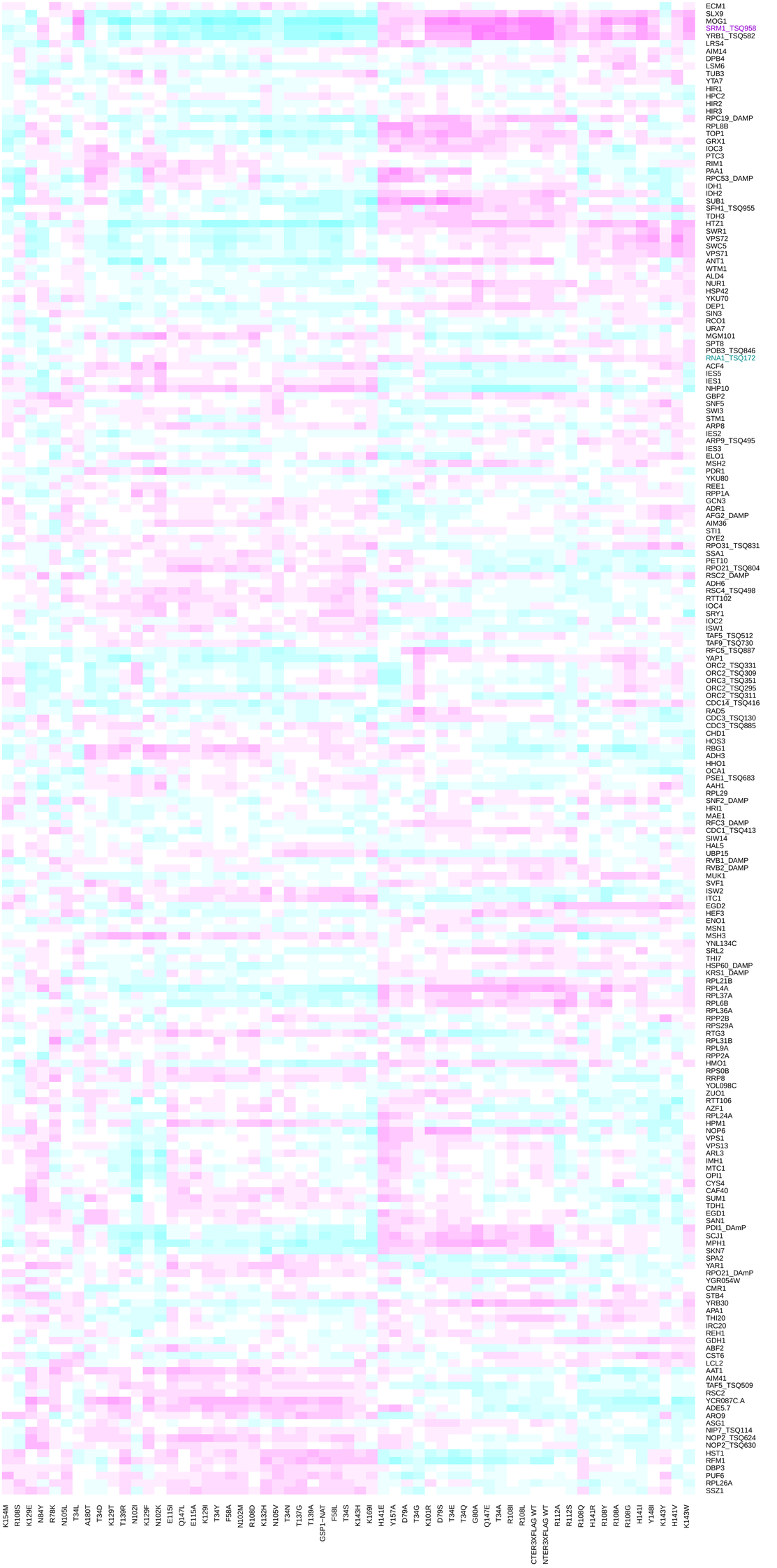
Golgi and ER_GO_30_5





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YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD5
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
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HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
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KRS1_DAMP
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RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
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RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
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NOP6
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VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
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T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
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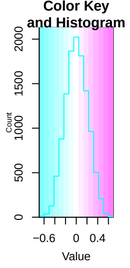
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DPB4
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TUB3
YTA7
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HPC2
HIR2
HIR3
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RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
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TDH3
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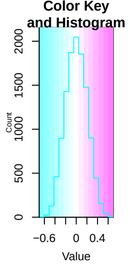

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ALD4
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DEP1
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RCO1
URA7
MGM101
SPT8
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RNA1_TSQ172
ACF4
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IES1
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GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
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MSH2
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SSA1
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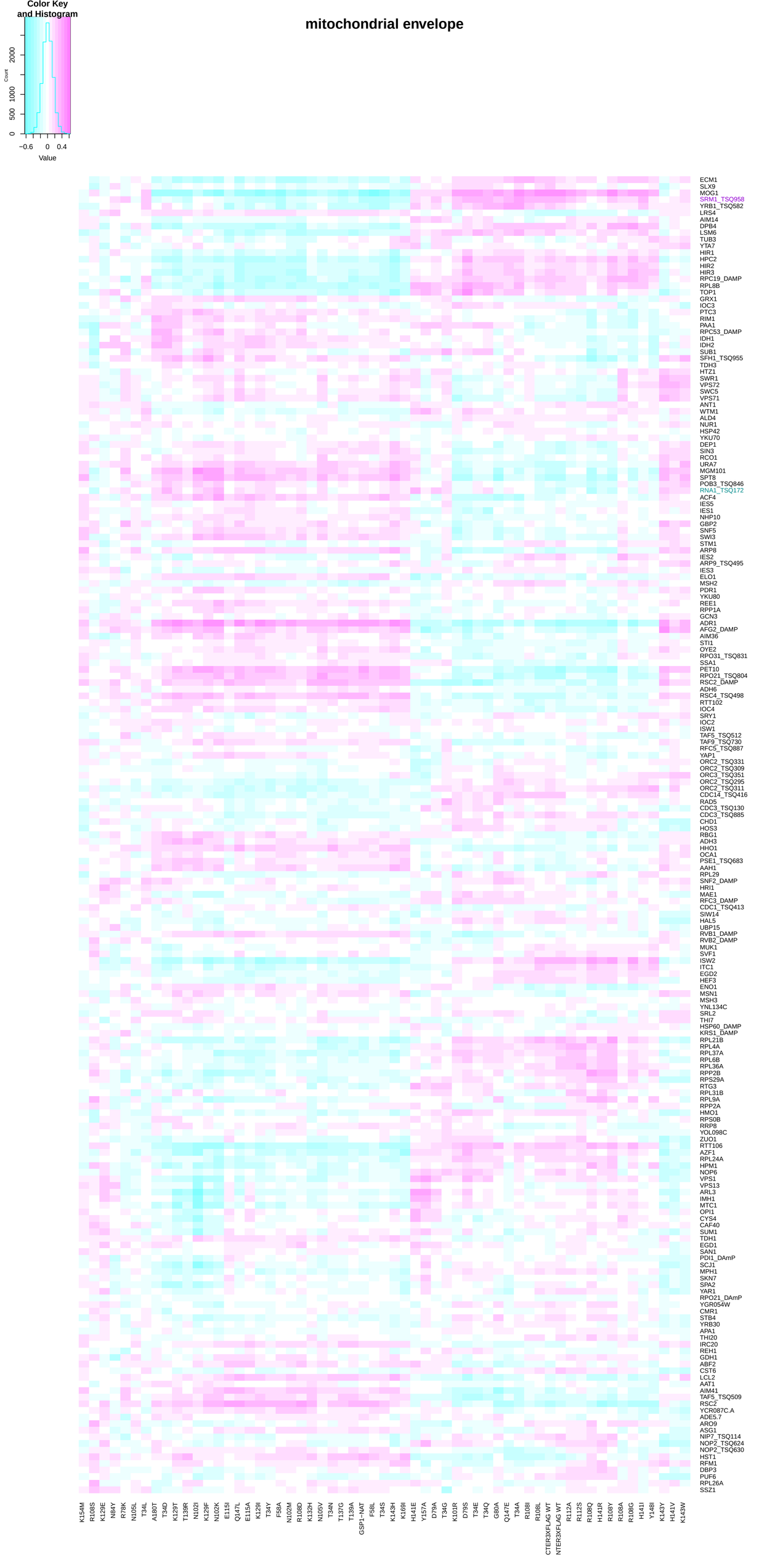
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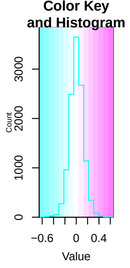

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YKU70
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GBP2
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RSC4_TSQ498
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IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
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RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
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RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
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RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
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K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
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NTER3XFLAG WT
R112A
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Color Key
and Histogram
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MOG1
SRM1_TSQ958
YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
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ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
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MAE1
RFC3_DAMP
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UBP15
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RVB2_DAMP
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SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
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SRL2
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KRS1_DAMP
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RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
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NOP2_TSQ624
NOP2_TSQ630
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RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
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R108G
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Y148I
K143Y
H141V
K143W

Color Key
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
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AFG2_DAMP
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OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
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HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
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HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
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HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
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KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
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VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
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NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
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R78K
N105L
T34L
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T34D
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T139R
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E115I
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K129I
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T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
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D79S
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T34Q
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Q147E
T34A
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R108L
CTER3XFLAG WT
NTER3XFLAG WT
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Color Key
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DPB4
LSM6
TUB3
YTA7
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
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GCN3
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AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
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UBP15
RVB1_DAMP
RVB2_DAMP
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SVF1
ISW2
ITC1
EGD2
HEF3
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MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
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RPL4A
RPL37A
RPL6B
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RTG3
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RPP2A
HMO1
RPS0B
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YOL098C
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VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
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YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
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TAF5_TSQ509
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YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
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NOP2_TSQ630
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RFM1
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Q147L
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K169I
H141E
Y157A
D79A
T34G
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D79S
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T34Q
G80A
Q147E
T34A
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R108L
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NTER3XFLAG WT
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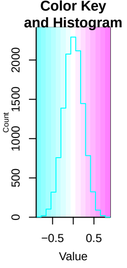
K143W



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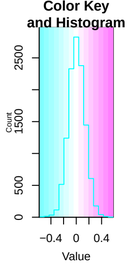

ion transport

Color Key
and Histogram
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MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
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TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
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HAL5
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RVB2_DAMP
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SVF1
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HEF3
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MTC1
OPI1
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SCJ1
MPH1
SKN7
SPA2
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YGR054W
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YRB30
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IRC20
REH1
GDH1
ABF2
CST6
LCL2
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RSC2
YCR087C.A
ADE5.7
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ASG1
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NOP2_TSQ630
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RFM1
DBP3
PUF6
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SSZ1
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R108S
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N84Y
R78K
N105L
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A180T
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K129F
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Q147L
E115A
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NTER3XFLAG WT
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Color Key
and Histogram
Count
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SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
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AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
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SRY1
IOC2
ISW1
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TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
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ADH3
HHO1
OCA1
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ITC1
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HEF3
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MSN1
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YNL134C
SRL2
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OPI1
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TDH1
EGD1
SAN1
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SCJ1
MPH1
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SPA2
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YRB30
APA1
THI20
IRC20
REH1
GDH1
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CST6
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ASG1
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NOP2_TSQ624
NOP2_TSQ630
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DBP3
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K129I
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F58L
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H141E
Y157A
D79A
T34G
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D79S
T34E
T34Q
G80A
Q147E
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NTER3XFLAG WT
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R112S
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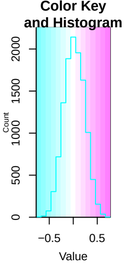
K143W



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PTC3
RIM1
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HTZ1
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VPS72
SWC5
VPS71
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WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
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IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
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ELO1
MSH2
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REE1
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GCN3
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TAF9_TSQ730
RFC5_TSQ887
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ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
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OCA1
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MAE1
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RVB2_DAMP
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SVF1
ISW2
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HEF3
ENO1
MSN1
MSH3
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RPL6B
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RPP2A
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RPS0B
RRP8
YOL098C
ZUO1
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VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
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TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
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RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
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NOP2_TSQ630
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RFM1
DBP3
PUF6
RPL26A
SSZ1

K154M
R108S
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R78K
N105L
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T34D
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T139R
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K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
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T139A
GSP1−NAT
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K143H
K169I
H141E
Y157A
D79A
T34G
K101R
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T34Q
G80A
Q147E
T34A
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NTER3XFLAG WT
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R112S
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Y148I
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K143W

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DPB4
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TUB3
YTA7
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
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GCN3
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OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
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RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
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UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
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KRS1_DAMP
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RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
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RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
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YCR087C.A
ADE5.7
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RFM1
DBP3
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K154M
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GRX1
IOC3
PTC3
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PAA1
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IDH2
SUB1
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SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
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YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
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IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
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GCN3
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OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
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ADH6
RSC4_TSQ498
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SRY1
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ISW1
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TAF9_TSQ730
RFC5_TSQ887
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ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
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RAD6
CDC3_TSQ130
CDC3_TSQ885
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ADH3
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OCA1
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RVB2_DAMP
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SVF1
ISW2
ITC1
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SRL2
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KRS1_DAMP
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RPL6B
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RPL9A
RPP2A
HMO1
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RRP8
YOL098C
ZUO1
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RPL24A
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NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
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TDH1
EGD1
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PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
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STB4
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APA1
THI20
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REH1
GDH1
ABF2
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PTC3
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PAA1
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VPS71
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WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
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RNA1_TSQ172
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IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
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GCN3
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AIM36
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OYE2
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
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AAH1
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HRI1
MAE1
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HEF3
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MSN1
MSH3
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SRL2
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KRS1_DAMP
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RPL6B
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HMO1
RPS0B
RRP8
YOL098C
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MTC1
OPI1
CYS4
CAF40
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SAN1
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SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
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ABF2
CST6
LCL2
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YCR087C.A
ADE5.7
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NOP2_TSQ630
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PUF6
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R78K
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N102K
E115I
Q147L
E115A
K129I
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R108D
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T139A
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H141E
Y157A
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R108L
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NTER3XFLAG WT
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K143W

Color Key
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DPB4
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TUB3
YTA7
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
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IDH2
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TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
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YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
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ELO1
MSH2
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RPP1A
GCN3
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SSA1
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RSC2_DAMP
ADH6
RSC4_TSQ498
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SRY1
IOC2
ISW1
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TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
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HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
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MAE1
RFC3_DAMP
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UBP15
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RVB2_DAMP
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SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
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RPP2A
HMO1
RPS0B
RRP8
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NOP6
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VPS13
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IMH1
MTC1
OPI1
CYS4
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TDH1
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SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
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STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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RSC2
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ADE5.7
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PUF6
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Y157A
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H141V
K143W

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YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
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GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
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NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
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Y148I
K143Y
H141V
K143W

Color Key
and Histogram
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1500
2000
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Value
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MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
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TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
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AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
0
500
1500
2500
−0.5
0
0.5
Value
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SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
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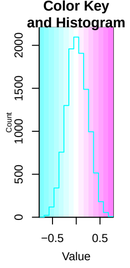

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MOG1
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YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
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RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
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A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
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T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
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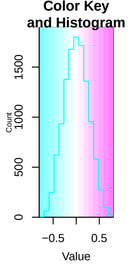

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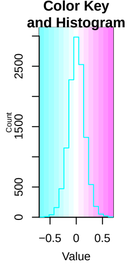
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and Histogram
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2500
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0
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Value

chromosome

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SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
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KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
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RTG3
RPL31B
RPL9A
RPP2A
HMO1
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RRP8
YOL098C
ZUO1
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NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
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SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
0
500
1000
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−0.5
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Value
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SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
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CDC3_TSQ130
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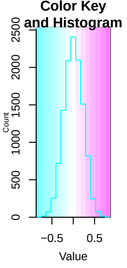

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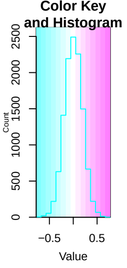

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DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
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GCN3
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AFG2_DAMP
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OYE2
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SSA1
PET10
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RSC2_DAMP
ADH6
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RTT102
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SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
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ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
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ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
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MAE1
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HMO1
RPS0B
RRP8
YOL098C
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VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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ADE5.7
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ASG1
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PUF6
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Y157A
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LSM6
TUB3
YTA7
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HIR2
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RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
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RPC53_DAMP
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SFH1_TSQ955
TDH3
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SWR1
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SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
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IES1
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GBP2
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GCN3
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ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
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CDC3_TSQ130
CDC3_TSQ885
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HIR2
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GRX1
IOC3
PTC3
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PAA1
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SWC5
VPS71
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WTM1
ALD4
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HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
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IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
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ELO1
MSH2
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YKU80
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GCN3
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AFG2_DAMP
AIM36
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OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
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SRY1
IOC2
ISW1
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TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
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HIR2
HIR3
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TOP1
GRX1
IOC3
PTC3
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RPC53_DAMP
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ALD4
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SIN3
RCO1
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MGM101
SPT8
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RNA1_TSQ172
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IES1
NHP10
GBP2
SNF5
SWI3
STM1
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IES2
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ELO1
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PDR1
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GCN3
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
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ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
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RAD6
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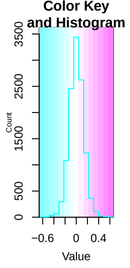
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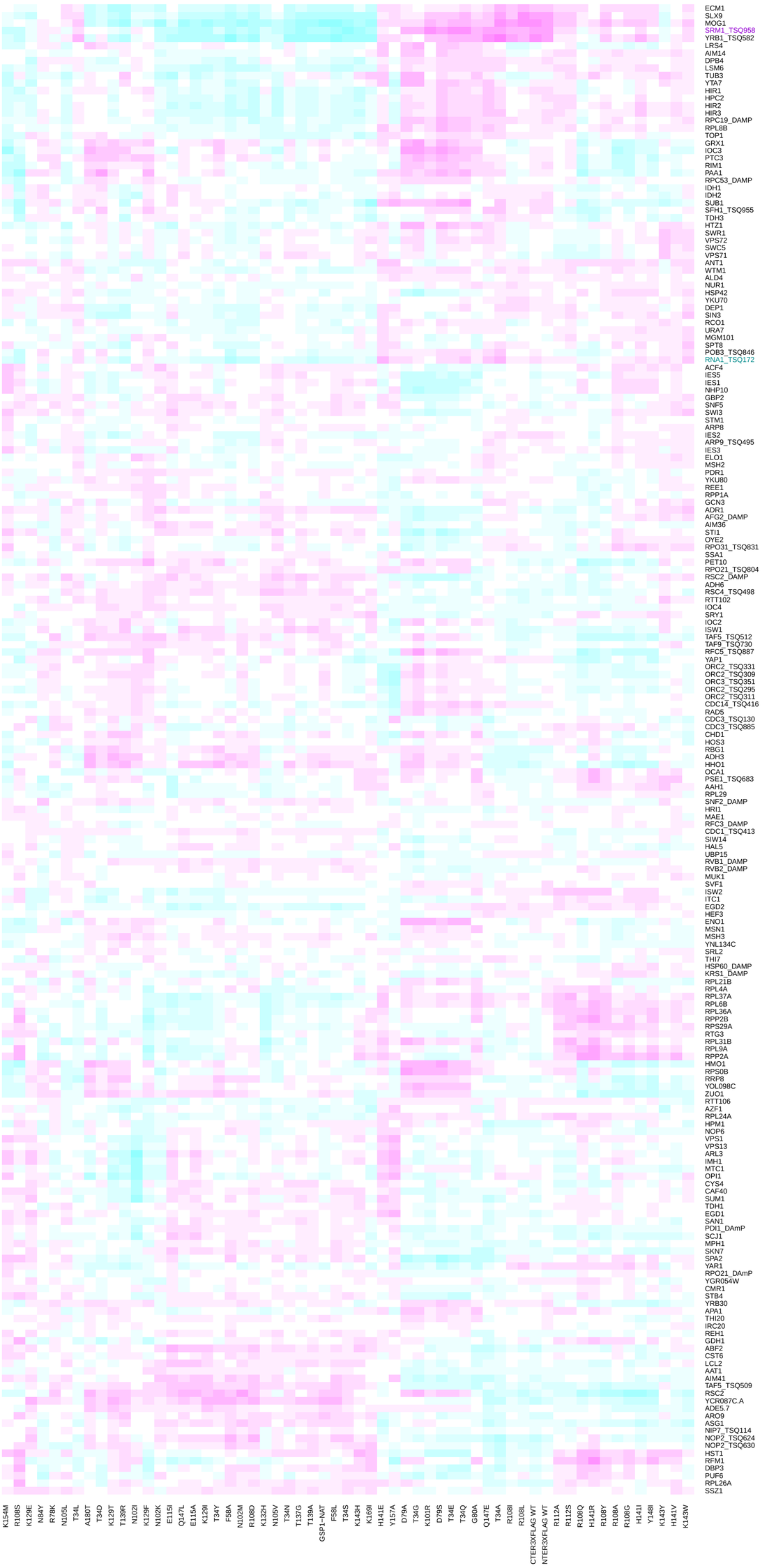
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SCJ1
MPH1
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RPO21_DAmP
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THI20
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REH1
GDH1
ABF2
CST6
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ARO9
ASG1
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DBP3
PUF6
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DPB4
LSM6
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YTA7
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HPC2
HIR2
HIR3
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RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
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DEP1
SIN3
RCO1
URA7
MGM101
SPT8
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RFC5_TSQ887
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GBP2
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SSA1
PET10
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ADH6
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SRY1
IOC2
ISW1
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TAF9_TSQ730
RFC5_TSQ887
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ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
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RAD6
CDC3_TSQ130
CDC3_TSQ885
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ADH3
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MAE1
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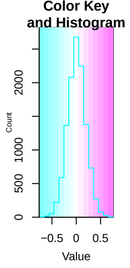

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ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
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RAD6
CDC3_TSQ130
CDC3_TSQ885
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SPA2
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YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1

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R78K
N105L
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F58L
T34S
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K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
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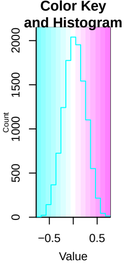

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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
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IDH2
SUB1
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TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
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AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
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HEF3
ENO1
MSN1
MSH3
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SRL2
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HMO1
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RRP8
YOL098C
ZUO1
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ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
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R78K
N105L
T34L
A180T
T34D
K129T
T139R
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K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
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N105V
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T139A
GSP1−NAT
F58L
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K169I
H141E
Y157A
D79A
T34G
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D79S
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T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
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H141R
R108Y
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R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
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500
1000
1500
2000
2500
−0.5
0.5
Value
response to heat
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SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
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RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
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EGD2
HEF3
ENO1
MSN1
MSH3
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SRL2
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KRS1_DAMP
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RPL37A
RPL6B
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RPP2B
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RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
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RPL24A
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NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
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YRB30
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IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
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TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
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NOP2_TSQ624
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HST1
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TUB3
YTA7
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
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SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
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CHD1
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OCA1
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AAH1
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HMO1
RPS0B
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YOL098C
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HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
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TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
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THI20
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GDH1
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CST6
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ADE5.7
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NOP2_TSQ624
NOP2_TSQ630
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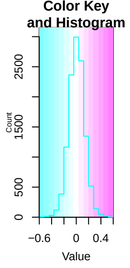

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TUB3
YTA7
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
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IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
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ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
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ADH3
HHO1
OCA1
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AAH1
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MAE1
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EGD2
HEF3
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MSN1
MSH3
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RPS0B
RRP8
YOL098C
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RPL24A
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NOP6
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VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
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TDH1
EGD1
SAN1
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SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
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NOP2_TSQ624
NOP2_TSQ630
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RFM1
DBP3
PUF6
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SSZ1
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R78K
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K129F
N102K
E115I
Q147L
E115A
K129I
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F58A
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R108D
K132H
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Y157A
D79A
T34G
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D79S
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G80A
Q147E
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R108L
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NTER3XFLAG WT
R112A
R112S
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K143Y
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K143W

Color Key
and Histogram
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DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
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VPS71
ANT1
WTM1
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HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
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STI1
OYE2
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
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CHD1
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RBG1
ADH3
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OCA1
PSE1_TSQ683
AAH1
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SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
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RVB2_DAMP
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SVF1
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HEF3
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MSN1
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SRL2
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OPI1
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STB4
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APA1
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R108L
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NTER3XFLAG WT
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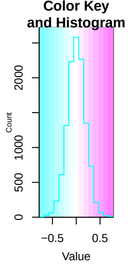

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VPS71
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ALD4
NUR1
HSP42
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DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
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NHP10
GBP2
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SWI3
STM1
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MSH2
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GCN3
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OYE2
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SSA1
PET10
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ADH6
RSC4_TSQ498
RTT102
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SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
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RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
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MAE1
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RVB2_DAMP
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SVF1
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SCJ1
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SKN7
SPA2
YAR1
RPO21_DAmP
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THI20
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GDH1
ABF2
CST6
LCL2
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RSC2
YCR087C.A
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ARO9
ASG1
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NOP2_TSQ624
NOP2_TSQ630
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DBP3
PUF6
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R78K
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NTER3XFLAG WT
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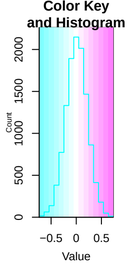

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HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
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IDH2
SUB1
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TDH3
HTZ1
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SWC5
VPS71
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DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
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ELO1
MSH2
PDR1
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REE1
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GCN3
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AIM36
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OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
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HAL5
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RVB1_DAMP
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MUK1
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RPS0B
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YOL098C
ZUO1
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RPL24A
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VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
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STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
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CST6
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ARO9
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TUB3
YTA7
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
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OYE2
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
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SRY1
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ISW1
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TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD5
CDC3_TSQ130
CDC3_TSQ885
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RBG1
ADH3
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PSE1_TSQ683
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EGD2
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RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
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VPS13
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OPI1
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DPB4
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TUB3
YTA7
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HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
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IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
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WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
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GBP2
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OYE2
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PET10
RPO21_TSQ804
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ADH6
RSC4_TSQ498
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SRY1
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ORC3_TSQ351
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CDC3_TSQ130
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OCA1
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RRP8
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DPB4
LSM6
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YTA7
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HPC2
HIR2
HIR3
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RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
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SWR1
VPS72
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WTM1
ALD4
NUR1
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YKU70
DEP1
SIN3
RCO1
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SPT8
POB3_TSQ846
RNA1_TSQ172
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GBP2
SNF5
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ELO1
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PET10
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ADH6
RSC4_TSQ498
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SRY1
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ISW1
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RFC5_TSQ887
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ORC2_TSQ331
ORC2_TSQ309
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ORC2_TSQ295
ORC2_TSQ311
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RAD6
CDC3_TSQ130
CDC3_TSQ885
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HHO1
OCA1
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T139A
GSP1−NAT
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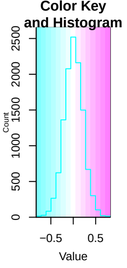

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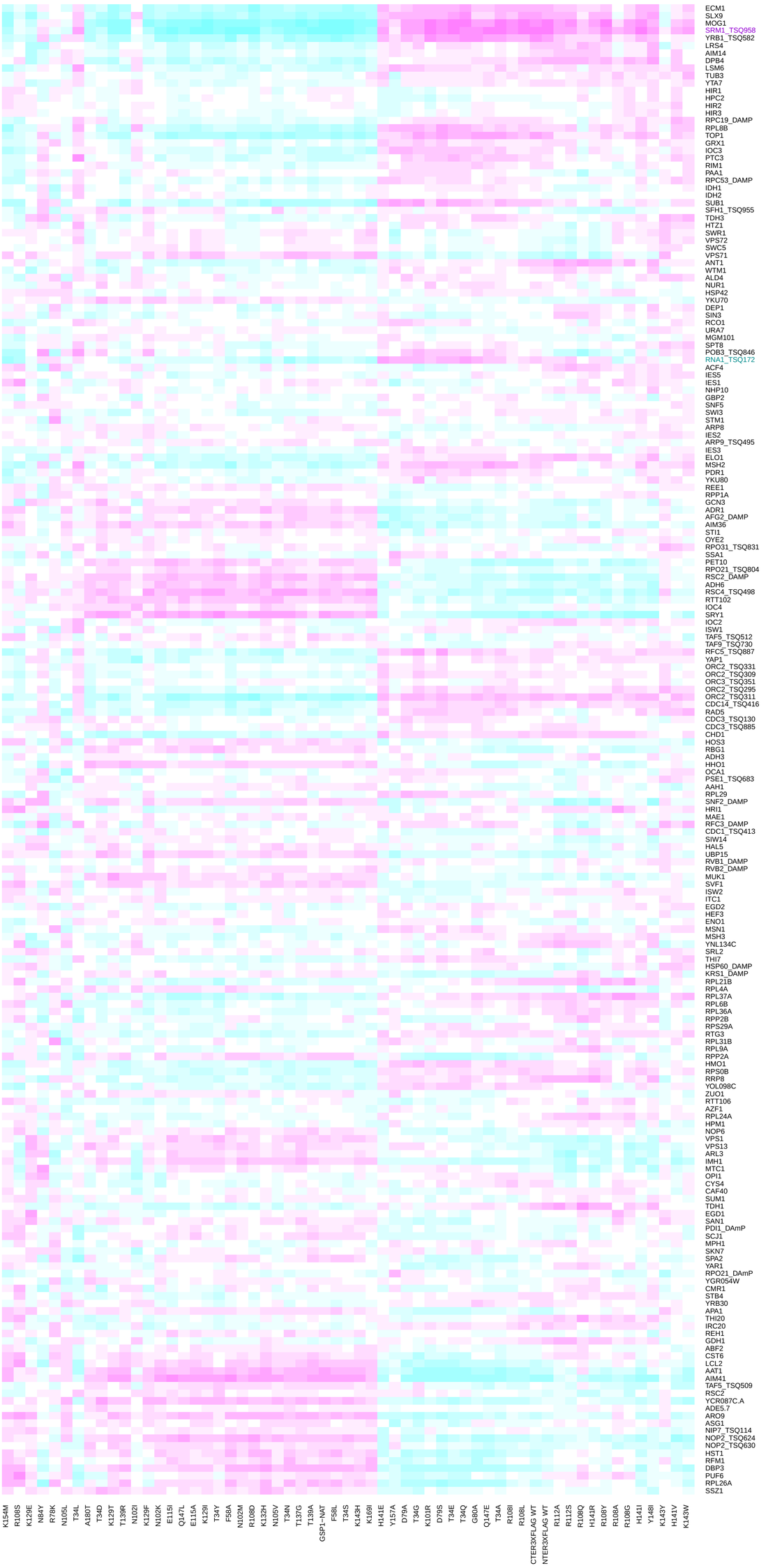

Color Key
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YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
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KRS1_DAMP
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RPL37A
RPL6B
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RTG3
RPL31B
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RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
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1500
2500
−0.6
0
0.4
Value
generation of precursor metabolites and energy
ECM1
SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD5
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
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500
1000
1500
2000
−0.5
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0.5
Value
generation of precursor metabolites and energy_GO_30_3
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SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
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AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
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T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
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R108L
CTER3XFLAG WT
NTER3XFLAG WT
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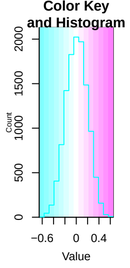
K143W



budding_GO_30_6

Color Key
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YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
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TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
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R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
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500
1000
2000
−0.5
0
0.5
Value
budding_GO_30_3
ECM1
SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
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AZF1
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NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
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R112S
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R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
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1000
1500
2000
2500
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0
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Value
cell wall organization or biogenesis
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SLX9
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YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
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KRS1_DAMP
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RPL37A
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RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
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CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
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F58L
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K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
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T34A
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R108L
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NTER3XFLAG WT
R112A
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
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ADH3
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OCA1
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RPL29
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HRI1
MAE1
RFC3_DAMP
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RVB1_DAMP
RVB2_DAMP
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SVF1
ISW2
ITC1
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HEF3
ENO1
MSN1
MSH3
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KRS1_DAMP
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RPL6B
RPL36A
RPP2B
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RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
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TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
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NOP2_TSQ630
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RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
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R108G
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Y148I
K143Y
H141V
K143W

Color Key
and Histogram
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LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
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OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
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HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
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MAE1
RFC3_DAMP
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RVB2_DAMP
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SVF1
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HEF3
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MSN1
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SRL2
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KRS1_DAMP
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RPL37A
RPL6B
RPL36A
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RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
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RPL24A
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NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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AIM41
TAF5_TSQ509
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YCR087C.A
ADE5.7
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NOP2_TSQ624
NOP2_TSQ630
HST1
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DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
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R78K
N105L
T34L
A180T
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K129T
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Q147L
E115A
K129I
T34Y
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GSP1−NAT
F58L
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K169I
H141E
Y157A
D79A
T34G
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D79S
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Q147E
T34A
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R108L
CTER3XFLAG WT
NTER3XFLAG WT
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Color Key
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SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
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GCN3
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AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
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SVF1
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ITC1
EGD2
HEF3
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MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
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RPL4A
RPL37A
RPL6B
RPL36A
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RTG3
RPL31B
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RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
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RPL24A
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NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
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DBP3
PUF6
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Q147L
E115A
K129I
T34Y
F58A
N102M
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K132H
N105V
T34N
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T139A
GSP1−NAT
F58L
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K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
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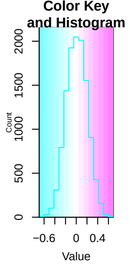
K143W



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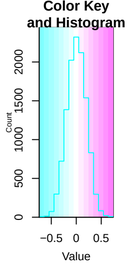

chromatin binding

Color Key
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SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
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HAL5
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RVB1_DAMP
RVB2_DAMP
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SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
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RRP8
YOL098C
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VPS13
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IMH1
MTC1
OPI1
CYS4
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TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
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NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
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SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
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A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
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K132H
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GSP1−NAT
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Y157A
D79A
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G80A
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R108L
CTER3XFLAG WT
NTER3XFLAG WT
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R112S
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Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
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SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
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ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
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RAD6
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ADH3
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HEF3
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YOL098C
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ARL3
IMH1
MTC1
OPI1
CYS4
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SCJ1
MPH1
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SPA2
YAR1
RPO21_DAmP
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STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
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RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
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DBP3
PUF6
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E115I
Q147L
E115A
K129I
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F58A
N102M
R108D
K132H
N105V
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F58L
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H141E
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D79A
T34G
K101R
D79S
T34E
T34Q
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Q147E
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NTER3XFLAG WT
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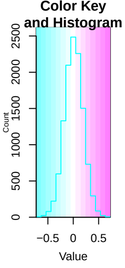

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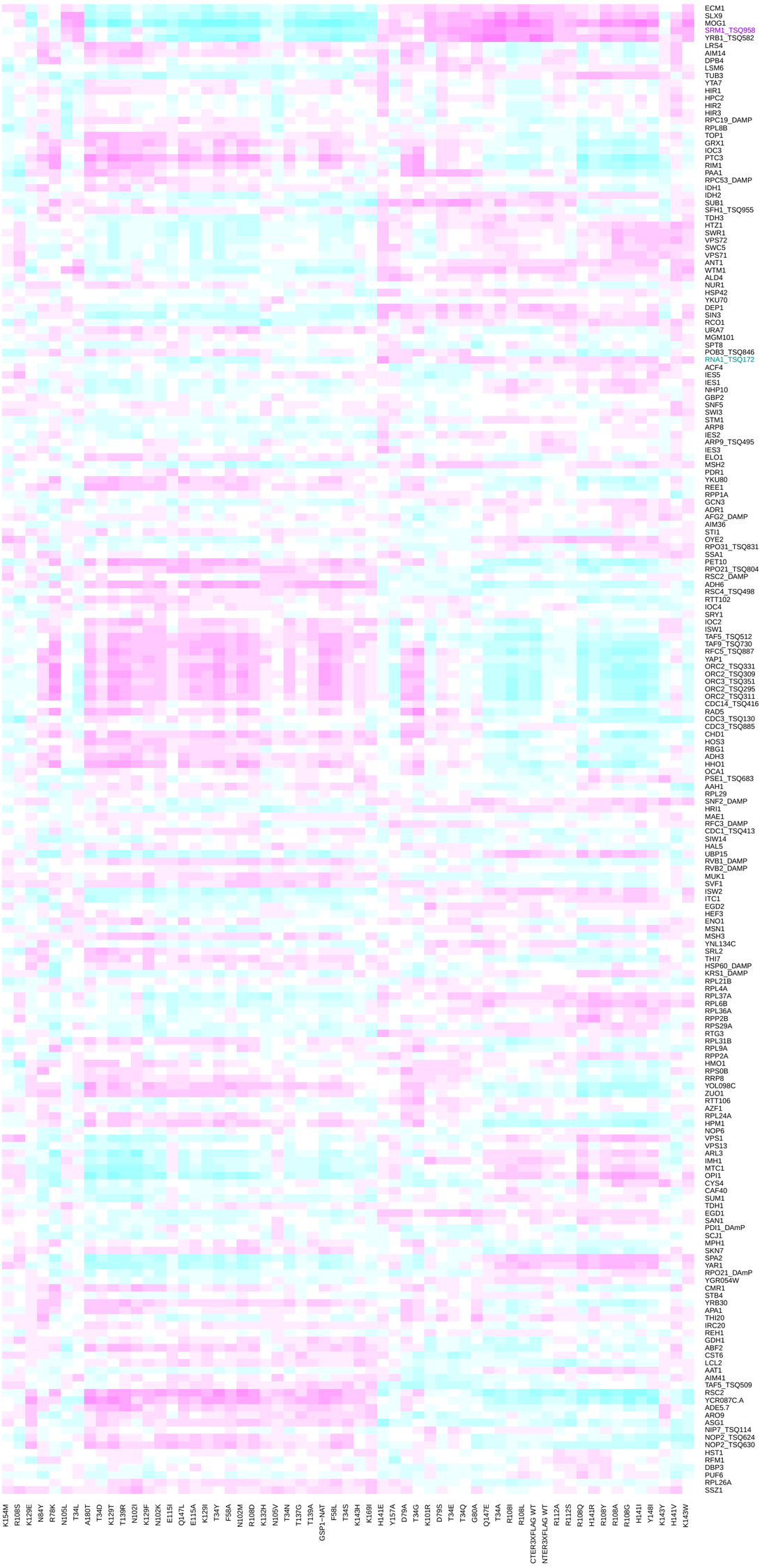

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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
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KRS1_DAMP
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RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
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NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
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R78K
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T139R
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K129F
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E115I
Q147L
E115A
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T34Y
F58A
N102M
R108D
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N105V
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GSP1−NAT
F58L
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K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
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Y148I
K143Y
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K143W

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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
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OYE2
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD5
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
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HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
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ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
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RPL21B
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RPL6B
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RRP8
YOL098C
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VPS1
VPS13
ARL3
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MTC1
OPI1
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SPA2
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NTER3XFLAG WT
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HPC2
HIR2
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RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
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SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
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SSA1
PET10
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ADH6
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SRY1
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ISW1
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TAF9_TSQ730
RFC5_TSQ887
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ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
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RAD6
CDC3_TSQ130
CDC3_TSQ885
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ADH3
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RVB2_DAMP
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MTC1
OPI1
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SPA2
YAR1
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CMR1
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IRC20
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CST6
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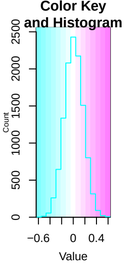

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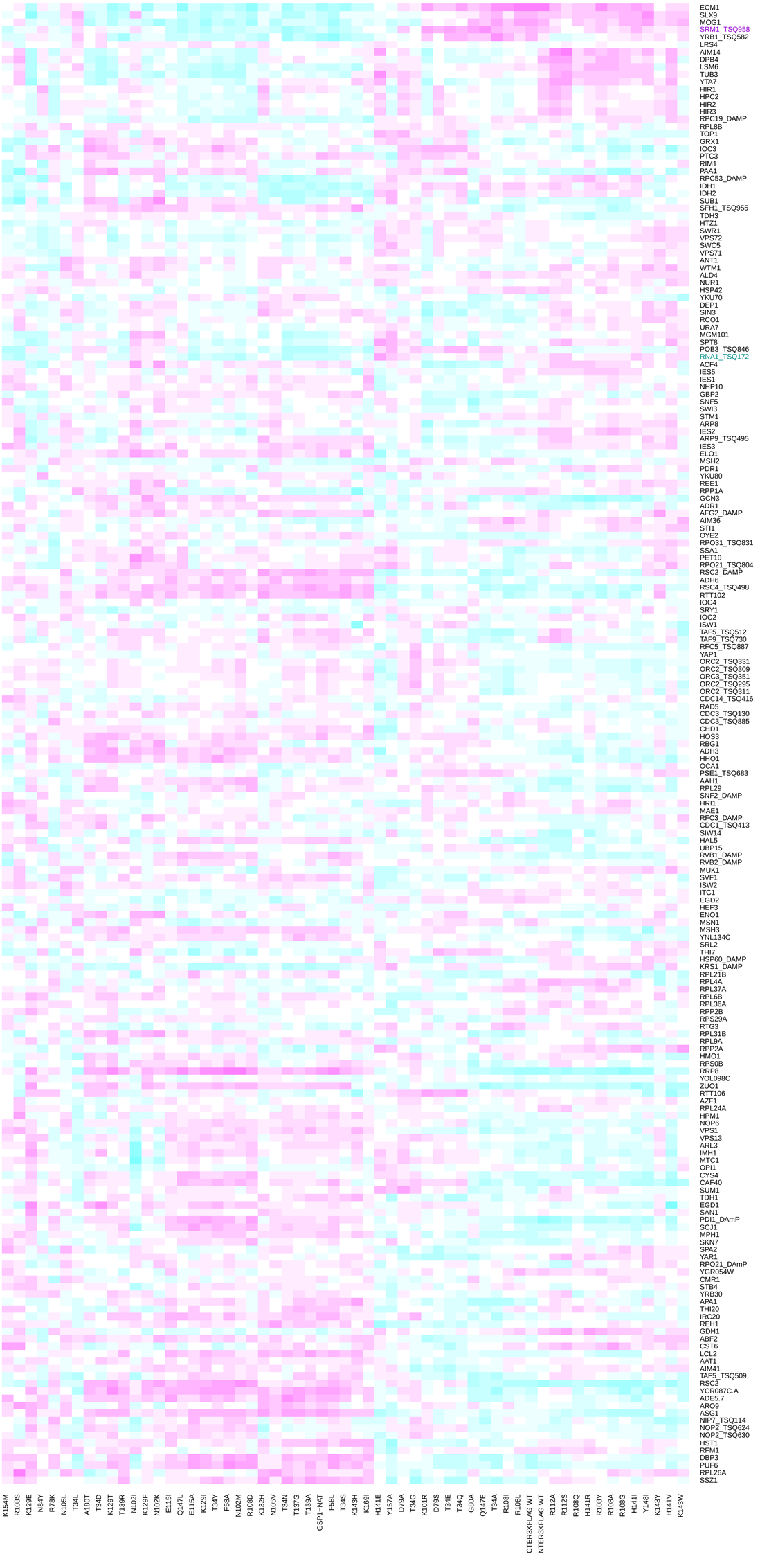

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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
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REE1
RPP1A
GCN3
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AIM36
STI1
OYE2
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
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SRY1
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ISW1
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TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
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HHO1
OCA1
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AAH1
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MAE1
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RVB2_DAMP
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SVF1
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MSH3
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SRL2
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KRS1_DAMP
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RPL36A
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RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
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NOP6
VPS1
VPS13
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IMH1
MTC1
OPI1
CYS4
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PDI1_DAmP
SCJ1
MPH1
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SPA2
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STB4
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APA1
THI20
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REH1
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ABF2
CST6
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ADE5.7
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ASG1
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NOP2_TSQ630
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DBP3
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N84Y
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A180T
T34D
K129T
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K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
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T139A
GSP1−NAT
F58L
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H141E
Y157A
D79A
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K143W

Color Key
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HIR2
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GRX1
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PTC3
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RPC53_DAMP
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IDH2
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TDH3
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ALD4
NUR1
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RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
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OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
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ADH3
HHO1
OCA1
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OPI1
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T139R
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K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
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R108Y
R108A
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H141I
Y148I
K143Y
H141V
K143W

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and Histogram
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DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
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OYE2
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
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SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
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RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
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HAL5
UBP15
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RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
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RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
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HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
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TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
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LCL2
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AIM41
TAF5_TSQ509
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HST1
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AIM14
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TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
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KRS1_DAMP
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RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
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HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
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SCJ1
MPH1
SKN7
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RPO21_DAmP
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CST6
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ADE5.7
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ASG1
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NOP2_TSQ630
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DBP3
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NTER3XFLAG WT
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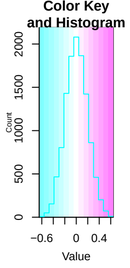

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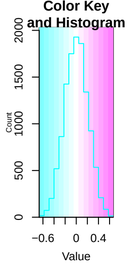

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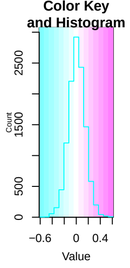

cellular response to DNA damage stimulus

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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
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ADH3
HHO1
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AAH1
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MSH3
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RPL6B
RPL36A
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RPP2A
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RPS0B
RRP8
YOL098C
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VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
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TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
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CMR1
STB4
YRB30
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THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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RSC2
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ADE5.7
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NOP2_TSQ624
NOP2_TSQ630
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PUF6
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G80A
Q147E
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NTER3XFLAG WT
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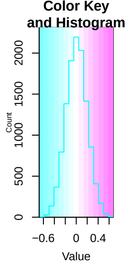

tRNA processing

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HIR2
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RPL8B
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GRX1
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ALD4
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MGM101
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GCN3
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OYE2
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MAE1
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YOL098C
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VPS13
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IMH1
MTC1
OPI1
CYS4
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TDH1
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SPA2
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TOP1
GRX1
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PTC3
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RPC53_DAMP
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T137G
T139A
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H141E
Y157A
D79A
T34G
K101R
D79S
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T34Q
G80A
Q147E
T34A
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R108L
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NTER3XFLAG WT
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Y148I
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K143W

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WTM1
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DEP1
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RCO1
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MGM101
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POB3_TSQ846
RNA1_TSQ172
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IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
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PDR1
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RSC4_TSQ498
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ISW1
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RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
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HHO1
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PSE1_TSQ683
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NTER3XFLAG WT
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Color Key
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MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
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VPS72
SWC5
VPS71
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WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
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IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
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ELO1
MSH2
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GCN3
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
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SRY1
IOC2
ISW1
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TAF9_TSQ730
RFC5_TSQ887
YAP1
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ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
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ADH3
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OPI1
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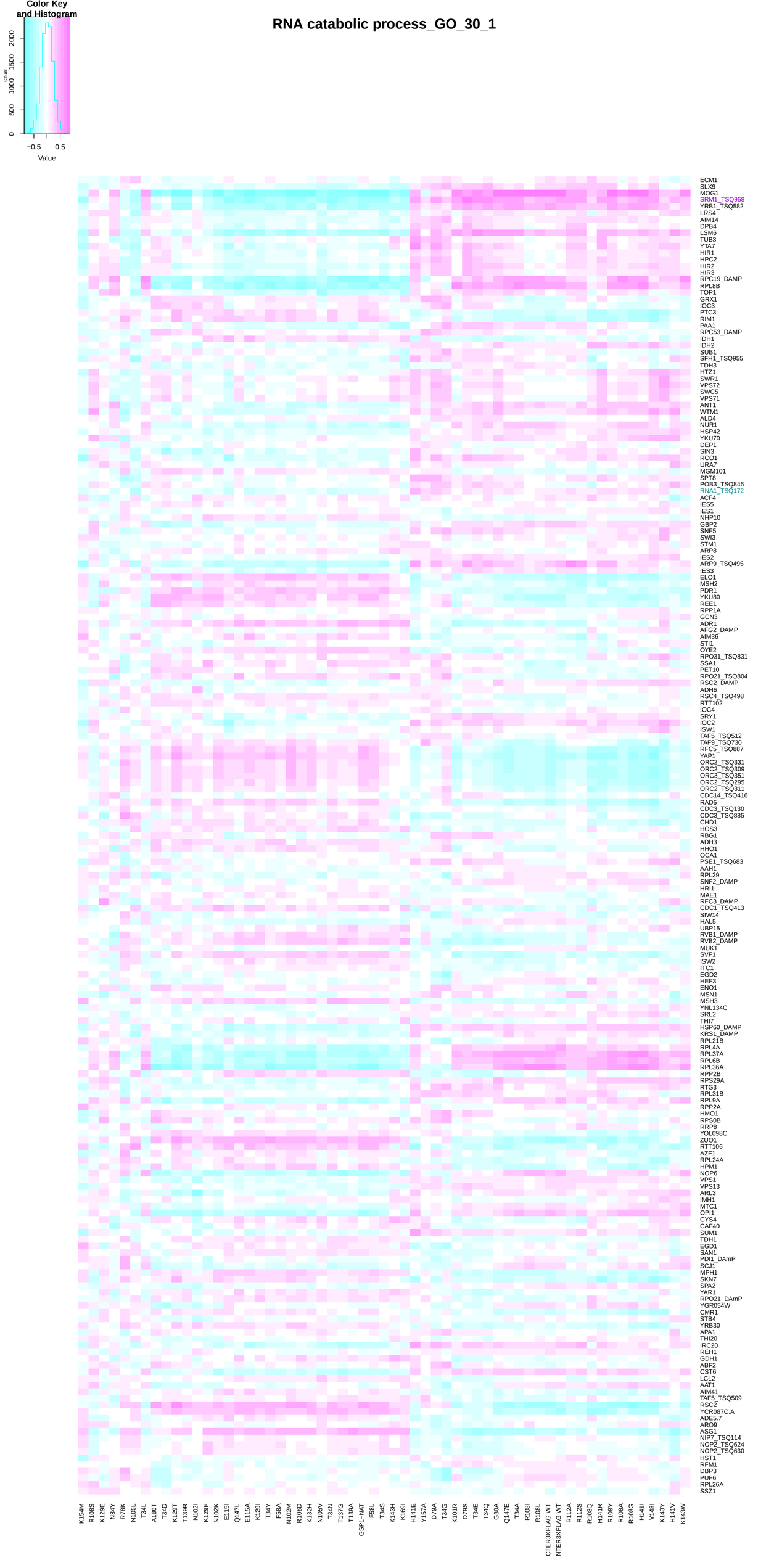
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GRX1
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TDH3
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VPS71
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ALD4
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YKU70
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RCO1
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MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
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IES5
IES1
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GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
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ELO1
MSH2
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OYE2
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SSA1
PET10
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RSC2_DAMP
ADH6
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ISW1
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TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
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RAD6
CDC3_TSQ130
CDC3_TSQ885
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ADH3
HHO1
OCA1
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OPI1
CYS4
CAF40
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ARO9
ASG1
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NOP2_TSQ630
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NTER3XFLAG WT
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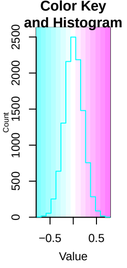

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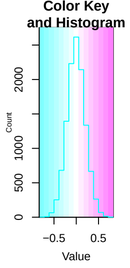

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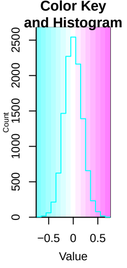

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HIR2
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RPC19_DAMP
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TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
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TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
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YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
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SWI3
STM1
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IES2
ARP9_TSQ495
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PDR1
YKU80
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GCN3
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AFG2_DAMP
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OYE2
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SSA1
PET10
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ADH6
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TAF9_TSQ730
RFC5_TSQ887
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ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
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CDC14_TSQ416
RAD5
CDC3_TSQ130
CDC3_TSQ885
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RBG1
ADH3
HHO1
OCA1
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AAH1
RPL29
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MAE1
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RRP8
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R108L
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NTER3XFLAG WT
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R112S
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R108G
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K143Y
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K143W

Color Key
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DPB4
LSM6
TUB3
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RPC19_DAMP
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PTC3
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URA7
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SPT8
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GBP2
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ARP9_TSQ495
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R108L
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NTER3XFLAG WT
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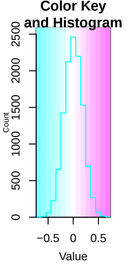

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PTC3
RIM1
PAA1
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IDH2
SUB1
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TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
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REE1
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GCN3
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AIM36
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OYE2
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SSA1
PET10
RPO21_TSQ804
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ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
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ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
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RRP8
YOL098C
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HPM1
NOP6
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MTC1
OPI1
CYS4
CAF40
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TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
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K129E
N84Y
R78K
N105L
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T34D
K129T
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E115I
Q147L
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F58A
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Y157A
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AIM14
DPB4
LSM6
TUB3
YTA7
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
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PDR1
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GCN3
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SSA1
PET10
RPO21_TSQ804
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ADH6
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SRY1
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RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
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HAL5
UBP15
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RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
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OPI1
CYS4
CAF40
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HIR2
HIR3
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TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
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IDH2
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HTZ1
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VPS71
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ALD4
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YKU70
DEP1
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MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
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IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
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REE1
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GCN3
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OYE2
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SSA1
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RPO21_TSQ804
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SRY1
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ISW1
TAF5_TSQ512
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ORC2_TSQ309
ORC3_TSQ351
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ORC2_TSQ311
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CDC3_TSQ130
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RRP8
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YTA7
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HPC2
HIR2
HIR3
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RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
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IDH2
SUB1
SFH1_TSQ955
TDH3
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VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
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IES1
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ARP9_TSQ495
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OYE2
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
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SRY1
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TAF9_TSQ730
RFC5_TSQ887
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ORC2_TSQ309
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ORC2_TSQ311
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RAD6
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NOP2_TSQ624
NOP2_TSQ630
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NTER3XFLAG WT
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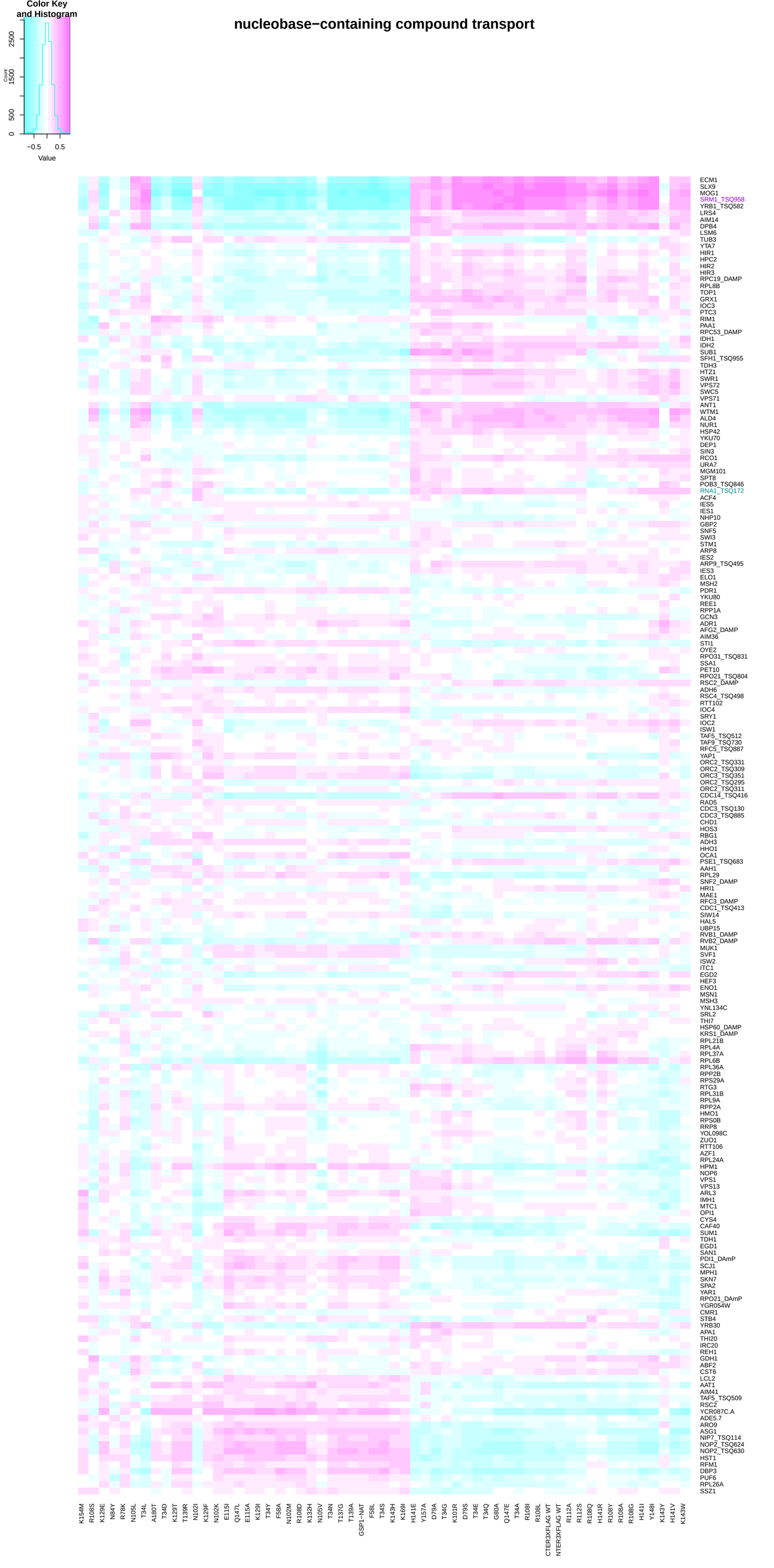
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TUB3
YTA7
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HPC2
HIR2
HIR3
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TOP1
GRX1
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PTC3
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ARP9_TSQ495
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
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SRY1
IOC2
ISW1
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TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
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ORC2_TSQ295
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HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
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HRI1
MAE1
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SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
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HEF3
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MSH3
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SRL2
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PDI1_DAmP
SCJ1
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SKN7
SPA2
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APA1
THI20
IRC20
REH1
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CST6
LCL2
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GSP1−NAT
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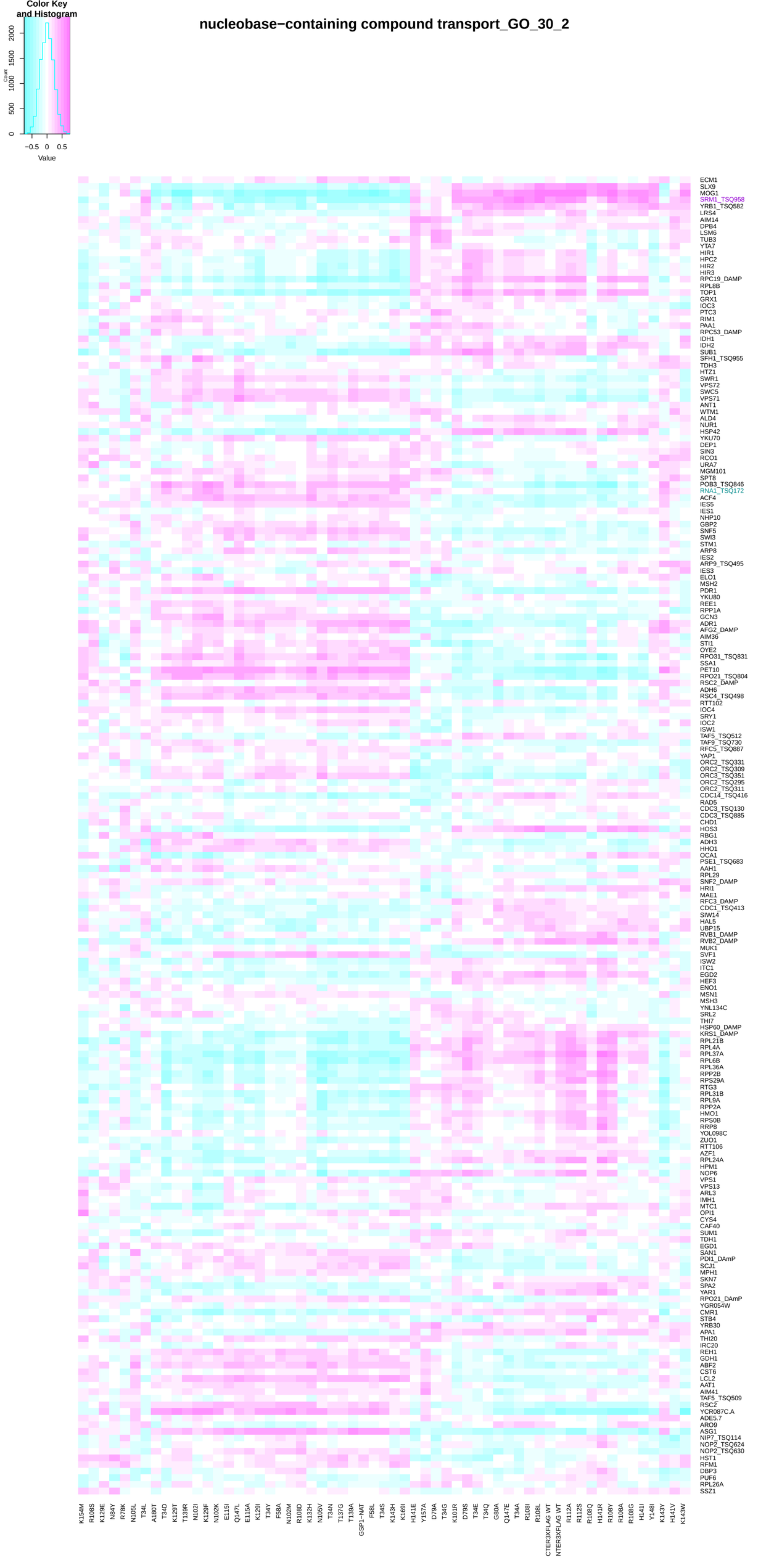
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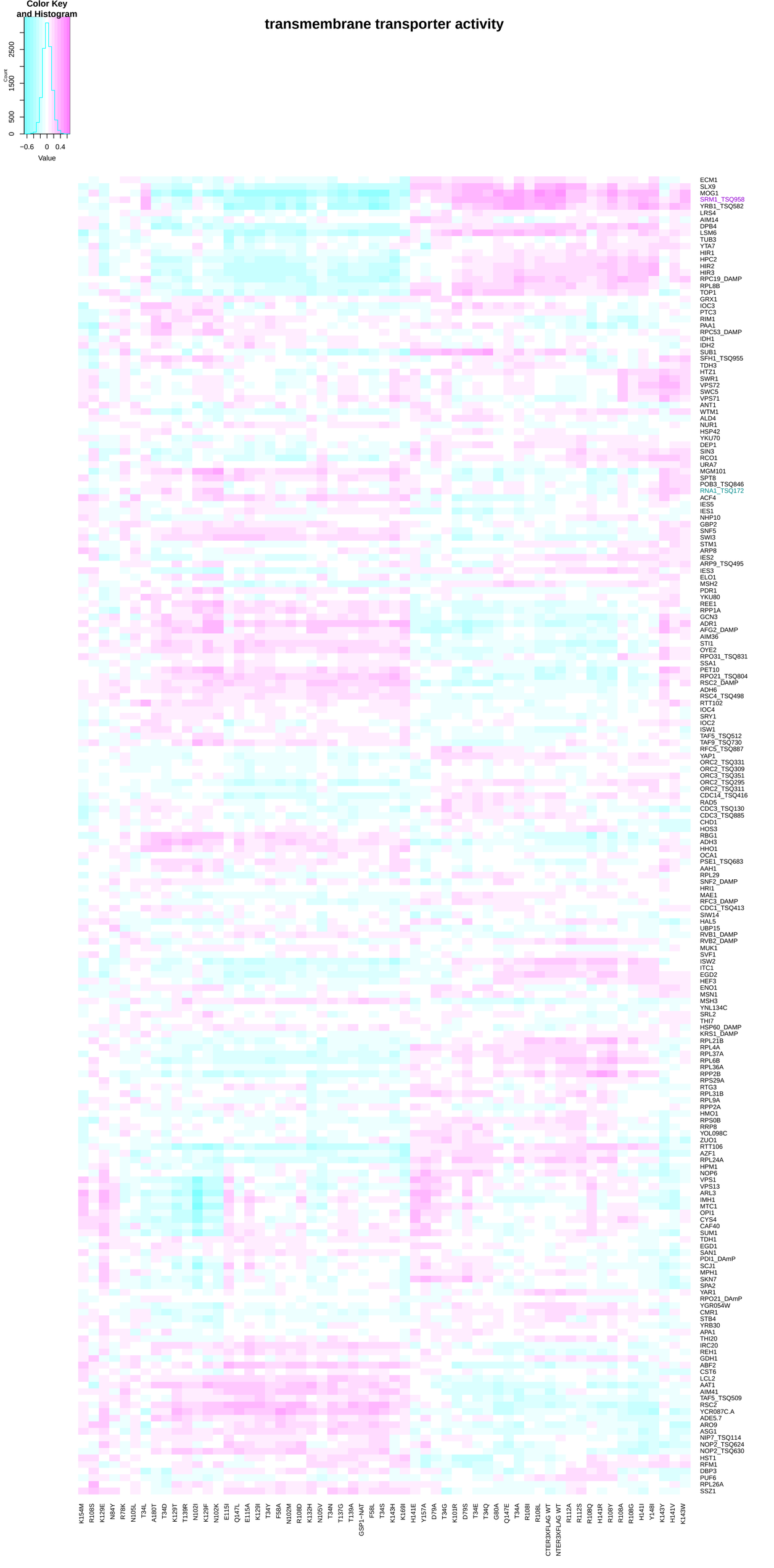
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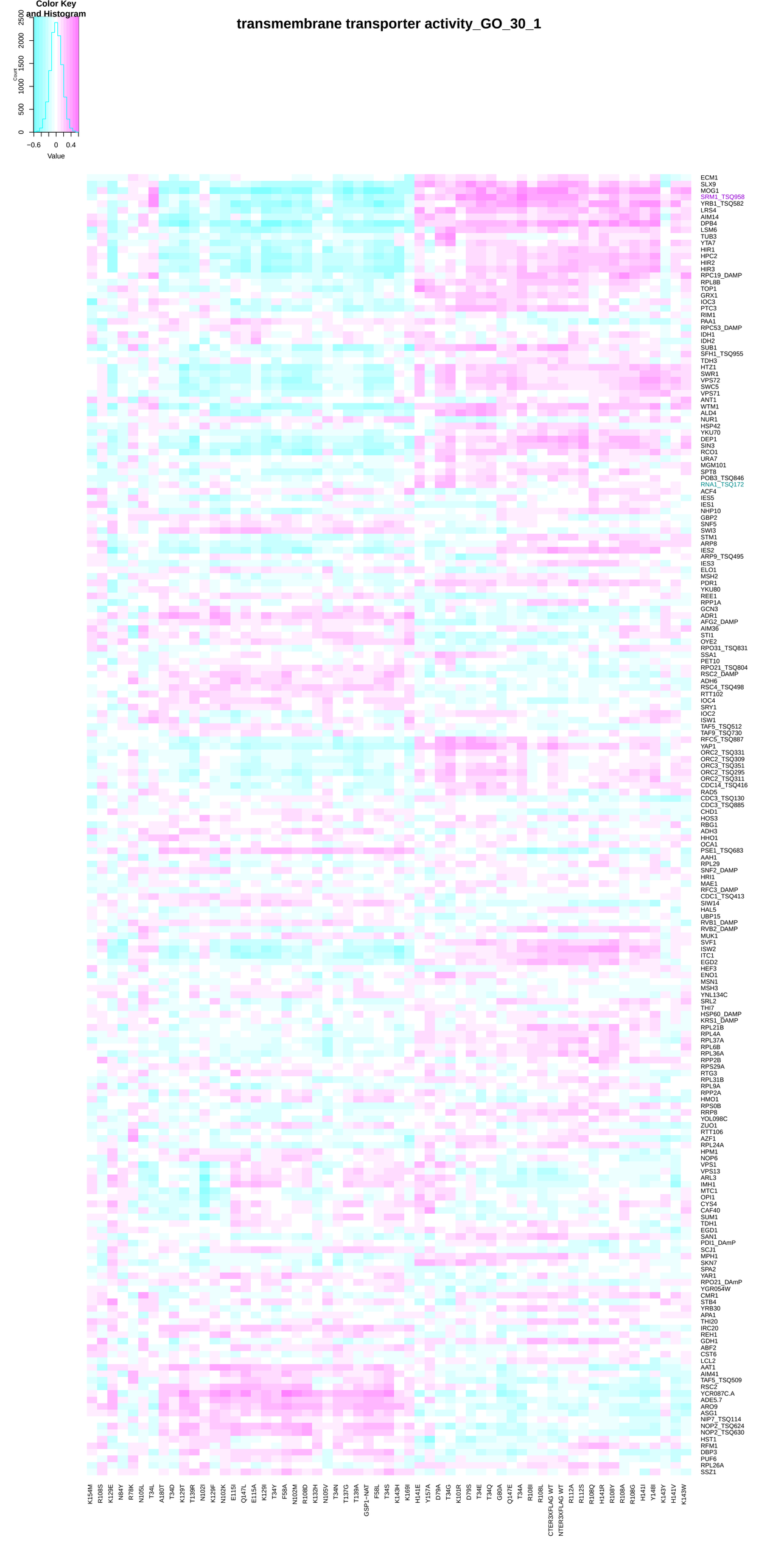
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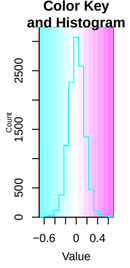
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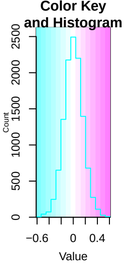

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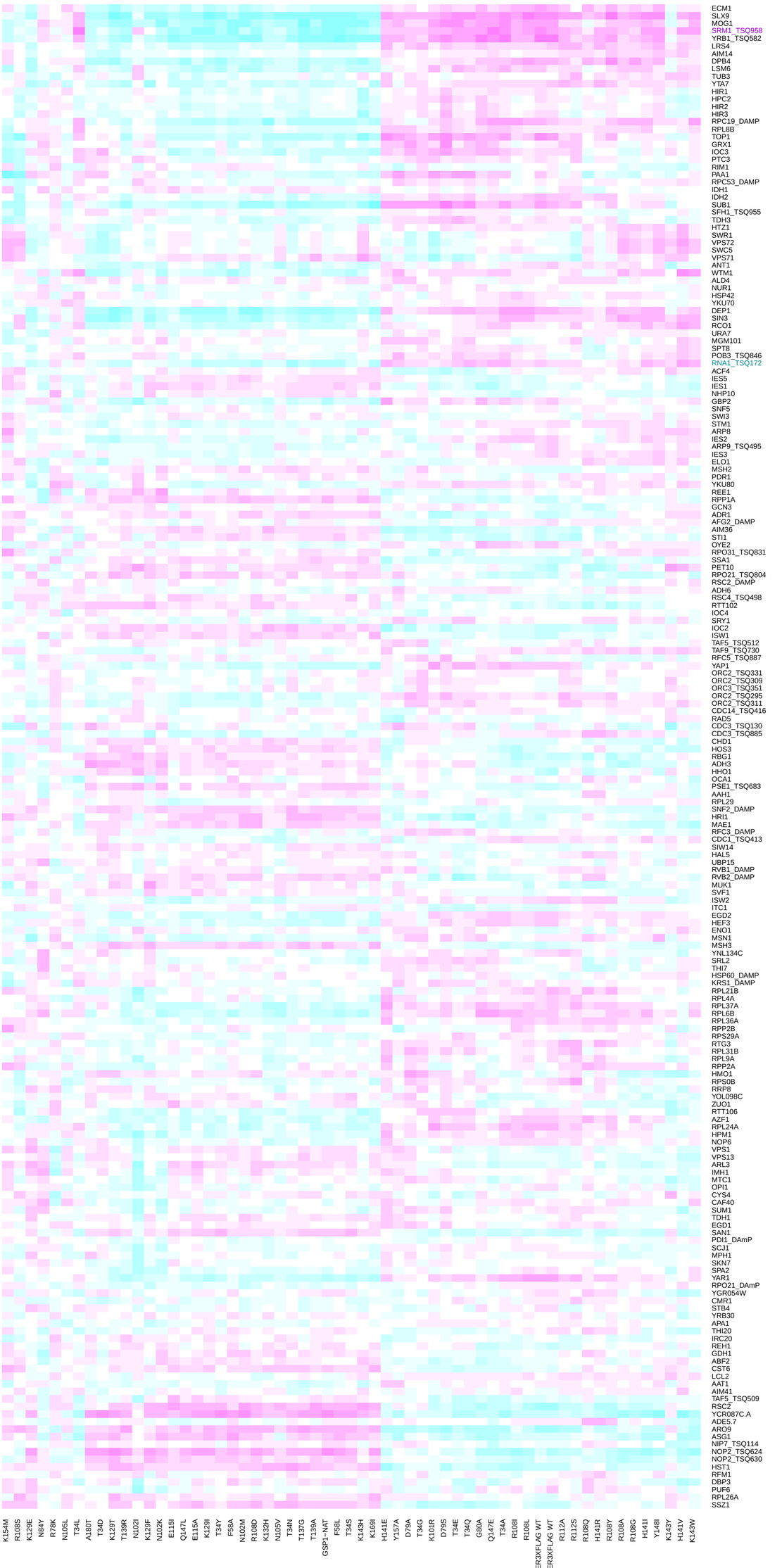

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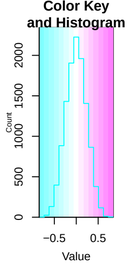
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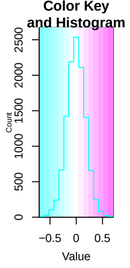

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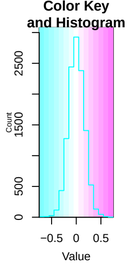
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SSA1
PET10
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RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
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AAH1
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RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
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PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
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CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
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RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
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N105L
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T34D
K129T
T139R
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TUB3
YTA7
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HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
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IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
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WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
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RNA1_TSQ172
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IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
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ARP9_TSQ495
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GCN3
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SSA1
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SRY1
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TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
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EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
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RPL37A
RPL6B
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RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
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NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
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SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
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STB4
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APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
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ARO9
ASG1
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DBP3
PUF6
RPL26A
SSZ1
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R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
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R108Y
R108A
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H141I
Y148I
K143Y
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K143W

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and Histogram
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DPB4
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TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
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RPL37A
RPL6B
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RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
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RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
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HST1
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DBP3
PUF6
RPL26A
SSZ1
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R78K
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E115I
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F58L
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K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
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R108Y
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R108G
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Y148I
K143Y
H141V
K143W

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DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
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SRL2
THI7
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KRS1_DAMP
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RPL37A
RPL6B
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RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
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MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
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SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
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CMR1
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THI20
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REH1
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ABF2
CST6
LCL2
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RSC2
YCR087C.A
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ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
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HST1
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DBP3
PUF6
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R108D
K132H
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T139A
GSP1−NAT
F58L
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H141E
Y157A
D79A
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Q147E
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NTER3XFLAG WT
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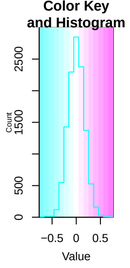

rRNA processing

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DPB4
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TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
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HEF3
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MSN1
MSH3
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SRL2
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RPS29A
RTG3
RPL31B
RPL9A
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VPS1
VPS13
ARL3
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MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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AIM41
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YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
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R108S
K129E
N84Y
R78K
N105L
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A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
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K143H
K169I
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Y157A
D79A
T34G
K101R
D79S
T34E
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Q147E
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NTER3XFLAG WT
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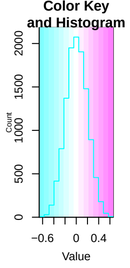

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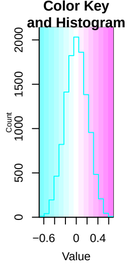

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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
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STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
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RPL29
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MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
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AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
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R78K
N105L
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T34D
K129T
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K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
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T139A
GSP1−NAT
F58L
T34S
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K169I
H141E
Y157A
D79A
T34G
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D79S
T34E
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G80A
Q147E
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CTER3XFLAG WT
NTER3XFLAG WT
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R112S
R108Q
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R108Y
R108A
R108G
H141I
Y148I
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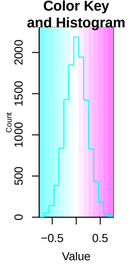
H141V
K143W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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
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UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
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KRS1_DAMP
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RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
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1500
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Golgi and ER_GO_30_9
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SLX9
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SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
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K169I
H141E
Y157A
D79A
T34G
K101R
D79S
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T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
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R108Y
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R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
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MOG1
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YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
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RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
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SSZ1
K154M
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K129E
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R78K
N105L
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A180T
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K129T
T139R
N102I
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E115I
Q147L
E115A
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F58A
N102M
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GSP1−NAT
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H141E
Y157A
D79A
T34G
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D79S
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Q147E
T34A
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R108L
CTER3XFLAG WT
NTER3XFLAG WT
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R112S
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Color Key
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MOG1
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YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
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KRS1_DAMP
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RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
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T137G
T139A
GSP1−NAT
F58L
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K169I
H141E
Y157A
D79A
T34G
K101R
D79S
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G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
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R108Y
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R108G
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Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
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1000
1500
2000
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Value
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YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
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RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
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RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
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T34N
T137G
T139A
GSP1−NAT
F58L
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H141E
Y157A
D79A
T34G
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T34Q
G80A
Q147E
T34A
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NTER3XFLAG WT
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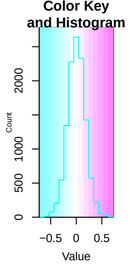

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DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
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RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
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GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
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AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
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ASG1
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NOP2_TSQ630
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DBP3
PUF6
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SSZ1
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K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
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T139A
GSP1−NAT
F58L
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K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
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K141V
K143W

Color Key
and Histogram
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1000
1500
2000
−0.6
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0.4
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SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD5
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
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HAL5
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RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
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HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
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RPL36A
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RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
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RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
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CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
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YAR1
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CMR1
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THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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AIM41
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YCR087C.A
ADE5.7
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ASG1
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NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
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SSZ1
K154M
R108S
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A180T
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NTER3XFLAG WT
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Color Key
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DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
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SRY1
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TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
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ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
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ADH3
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VPS13
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IMH1
MTC1
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CYS4
CAF40
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ASG1
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NOP2_TSQ624
NOP2_TSQ630
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RFM1
DBP3
PUF6
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NTER3XFLAG WT
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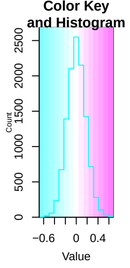

endocytosis

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DPB4
LSM6
TUB3
YTA7
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HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
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ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
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ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
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KRS1_DAMP
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RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
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RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
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E115I
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E115A
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R108D
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N105V
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GSP1−NAT
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H141E
Y157A
D79A
T34G
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D79S
T34E
T34Q
G80A
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NTER3XFLAG WT
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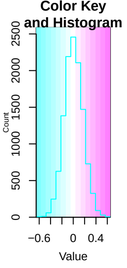

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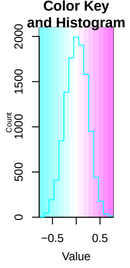

Golgi and ER_GO_30_3

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2500
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Value
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SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
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RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
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HRI1
MAE1
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SVF1
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ITC1
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HEF3
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MSN1
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YNL134C
SRL2
THI7
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KRS1_DAMP
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RPP2B
RPS29A
RTG3
RPL31B
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RPP2A
HMO1
RPS0B
RRP8
YOL098C
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NOP6
VPS1
VPS13
ARL3
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MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
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SSZ1
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R108S
K129E
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T34L
A180T
T34D
K129T
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K129F
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K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
K141V
K143W

Color Key
and Histogram
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DPB4
LSM6
TUB3
YTA7
HIR1
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HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
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VPS72
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MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
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GBP2
SNF5
SWI3
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MSH2
PDR1
YKU80
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OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
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IOC4
SRY1
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ISW1
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TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
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HHO1
OCA1
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AAH1
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NOP6
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VPS13
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MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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ARO9
ASG1
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DBP3
PUF6
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SSZ1
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E115A
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1500
2000
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SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
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OCA1
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MAE1
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HEF3
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YNL134C
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RPL4A
RPL37A
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RTG3
RPL31B
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HMO1
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YOL098C
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VPS13
ARL3
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MTC1
OPI1
CYS4
CAF40
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TDH1
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SAN1
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SCJ1
MPH1
SKN7
SPA2
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THI20
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GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
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R78K
N105L
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K132H
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Y157A
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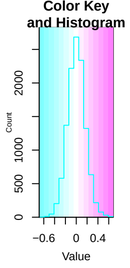

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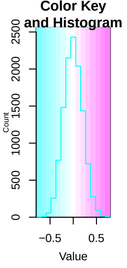

organelle fusion

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MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
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YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
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UBP15
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RVB2_DAMP
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SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
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KRS1_DAMP
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RPP2A
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RPS0B
RRP8
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NOP6
VPS1
VPS13
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IMH1
MTC1
OPI1
CYS4
CAF40
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TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
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IRC20
REH1
GDH1
ABF2
CST6
LCL2
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YCR087C.A
ADE5.7
ARO9
ASG1
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NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
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NTER3XFLAG WT
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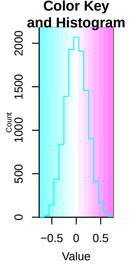
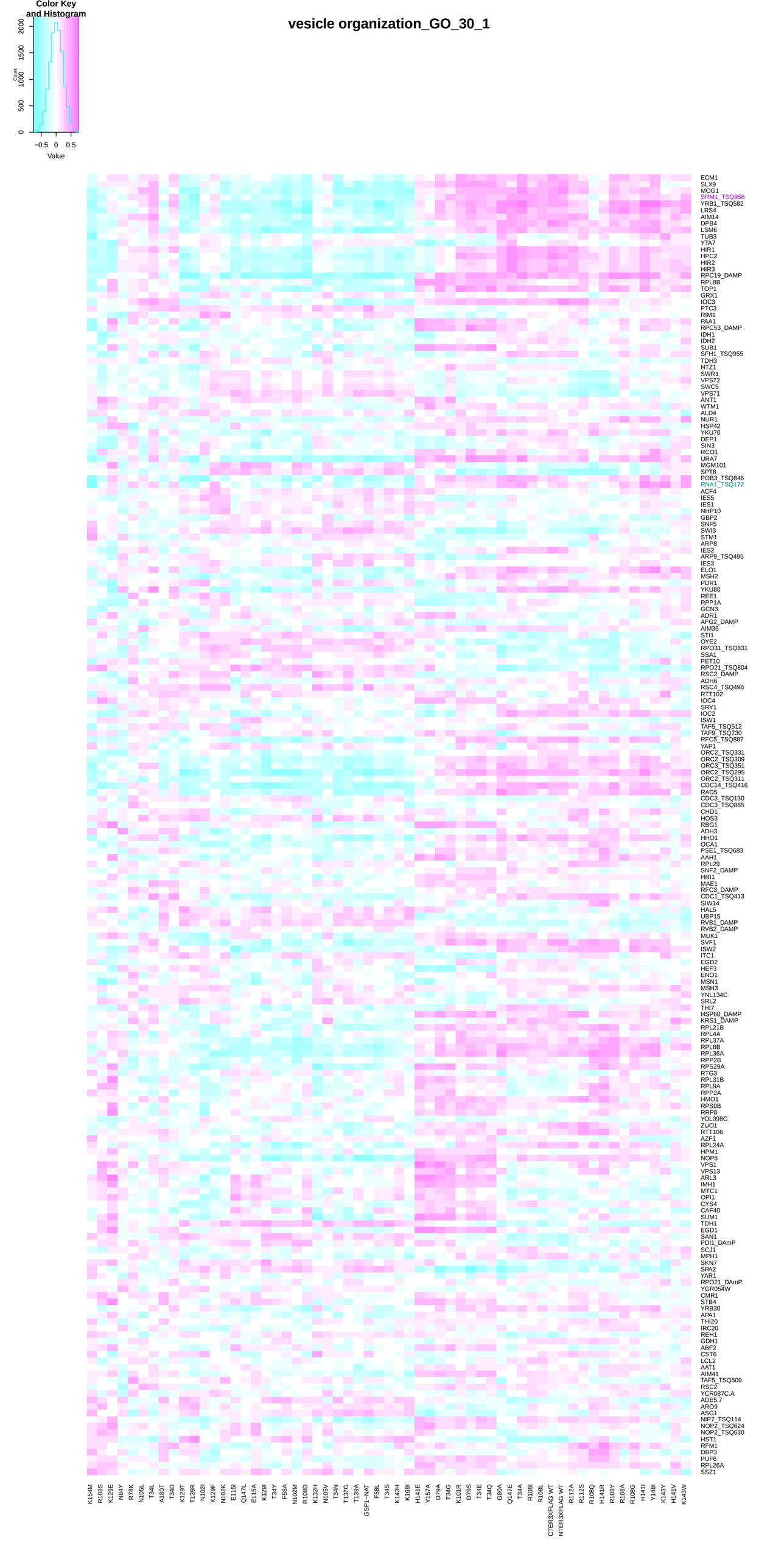


vesicle organization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DPB4
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TUB3
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HPC2
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TOP1
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SWC5
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DEP1
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SPT8
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GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
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AIM36
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OYE2
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
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SRY1
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ISW1
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TAF9_TSQ730
RFC5_TSQ887
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ORC3_TSQ351
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ORC2_TSQ311
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RAD6
CDC3_TSQ130
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MAE1
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HEF3
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MTC1
OPI1
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YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
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IDH1
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OPI1
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PUF6
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K129E
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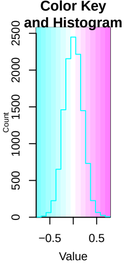

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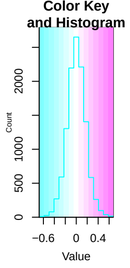
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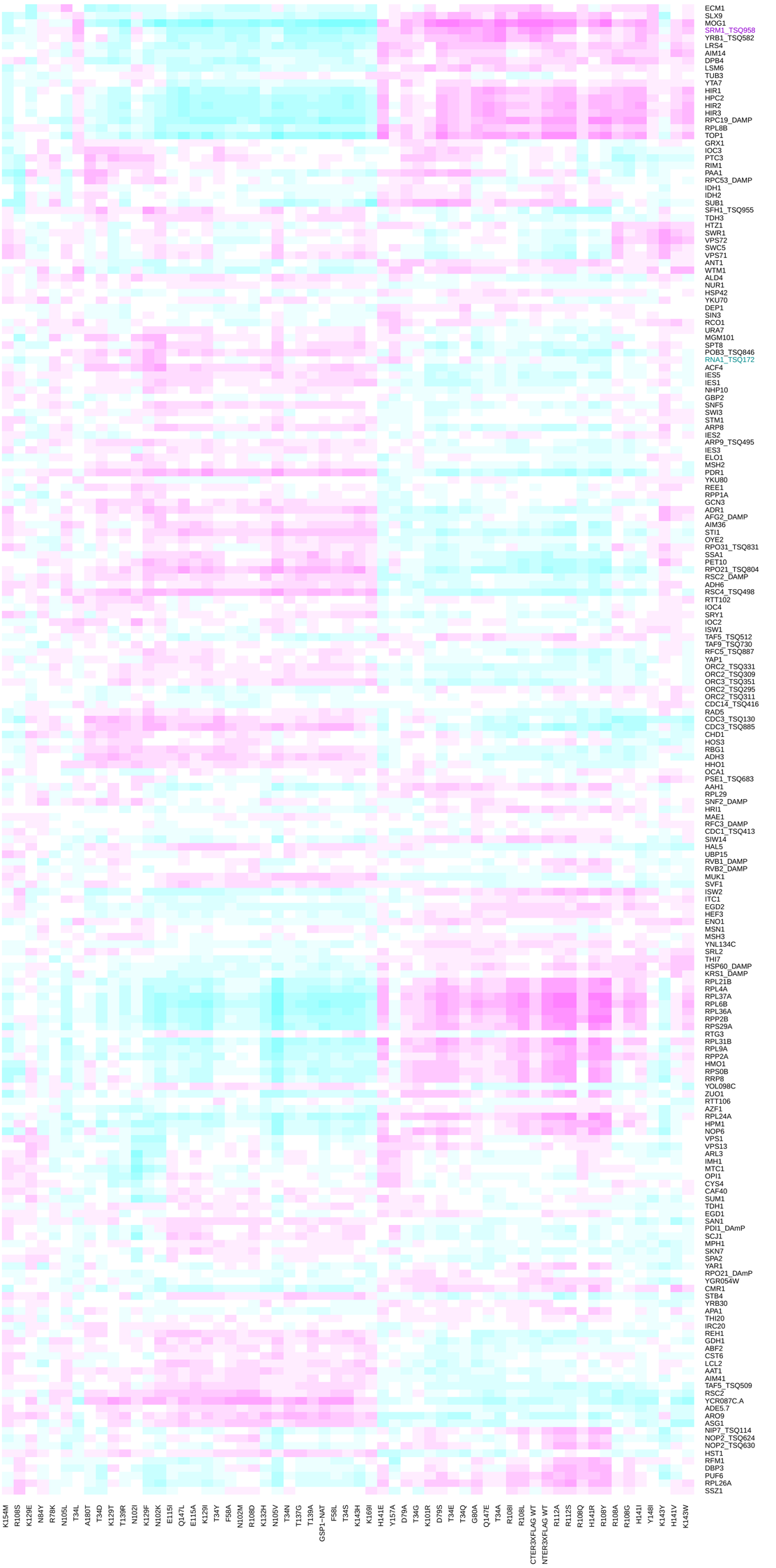
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IOC3
PTC3
RIM1
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WTM1
ALD4
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SSA1
PET10
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ISW1
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TAF9_TSQ730
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ORC2_TSQ331
ORC2_TSQ309
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OPI1
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SCJ1
MPH1
SKN7
SPA2
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RPO21_DAmP
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Color Key
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RPL8B
TOP1
GRX1
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PAA1
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SUB1
SFH1_TSQ955
TDH3
HTZ1
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RCO1
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RNA1_TSQ172
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SSA1
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ORC2_TSQ295
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RAD6
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ADH3
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OCA1
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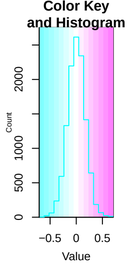

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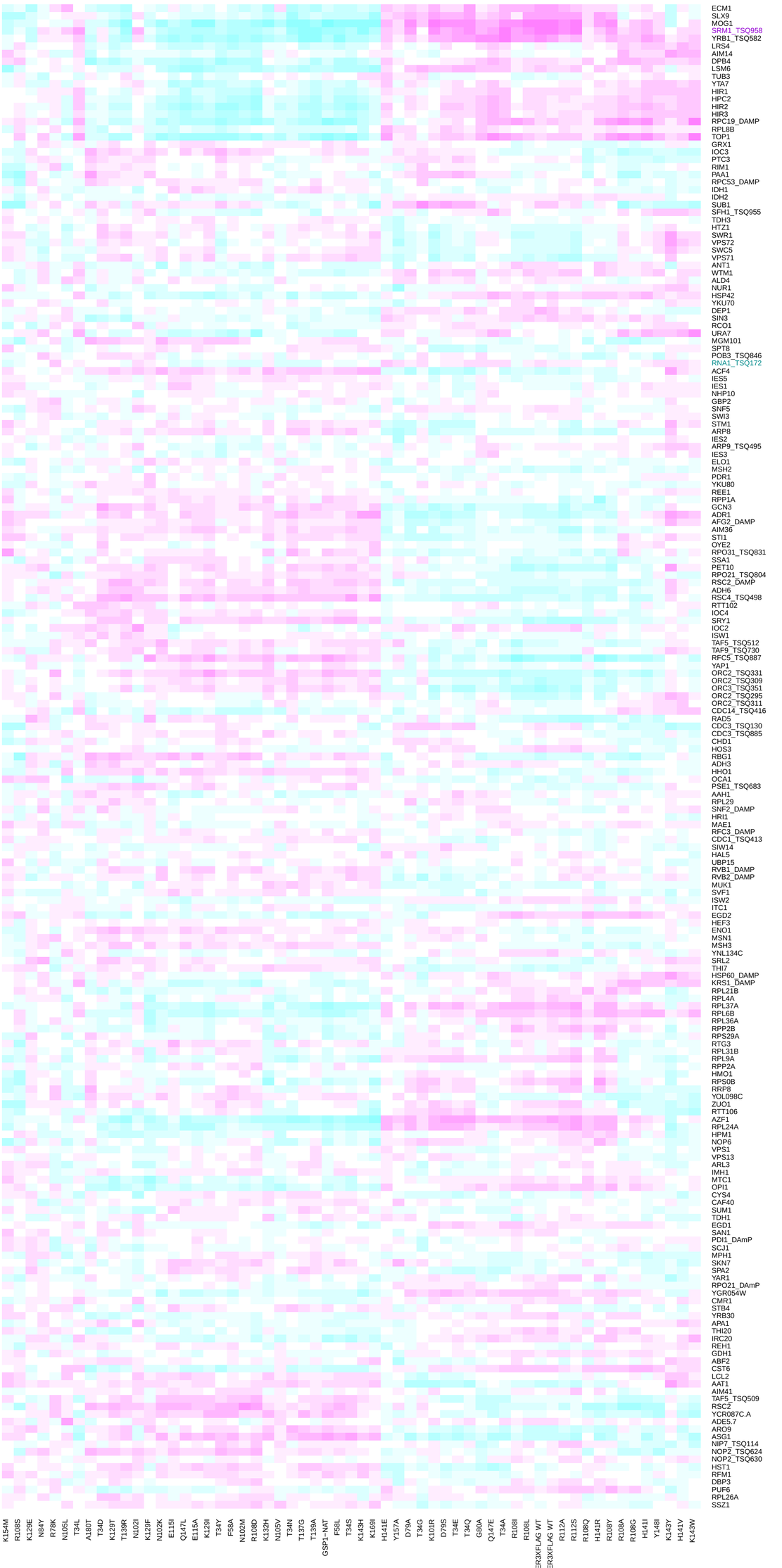

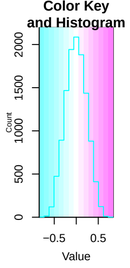

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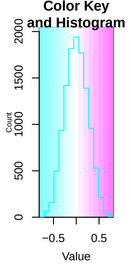

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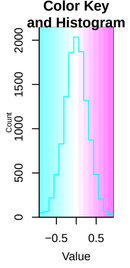

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DPB4
LSM6
TUB3
YTA7
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
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SWC5
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URA7
MGM101
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
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SRY1
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ISW1
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TAF9_TSQ730
RFC5_TSQ887
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ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
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RAD6
CDC3_TSQ130
CDC3_TSQ885
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ADH3
HHO1
OCA1
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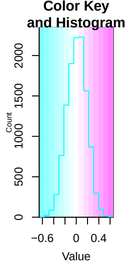

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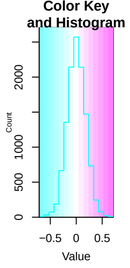

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YRB1_TSQ582
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DPB4
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TUB3
YTA7
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HIR3
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RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
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VPS72
SWC5
VPS71
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WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
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ELO1
MSH2
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YKU80
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RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
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TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
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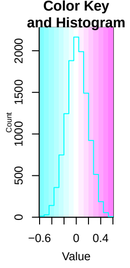
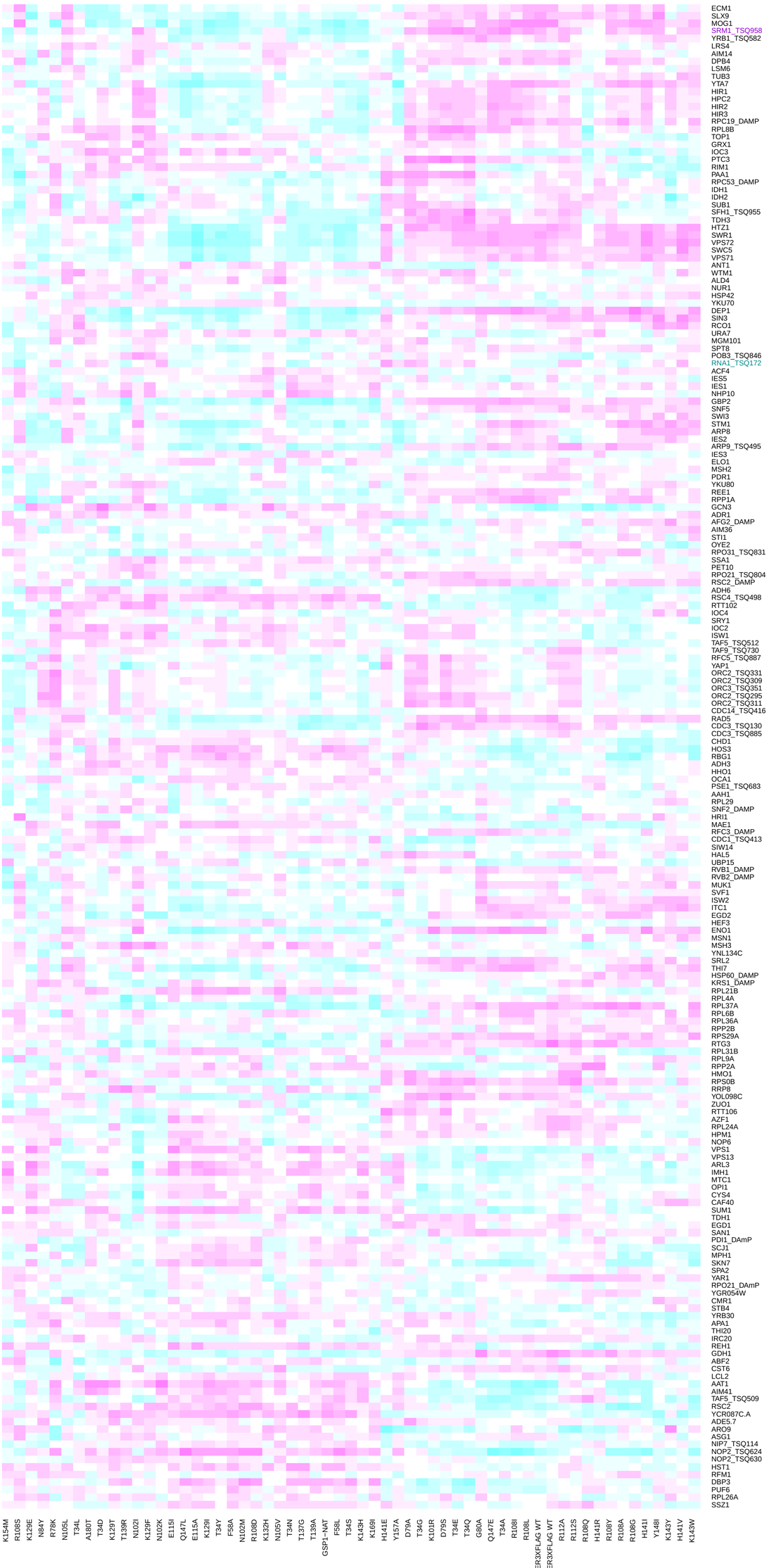


monocarboxylic acid metabolic process_GO_30_1



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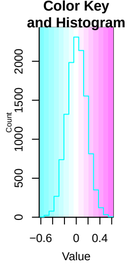

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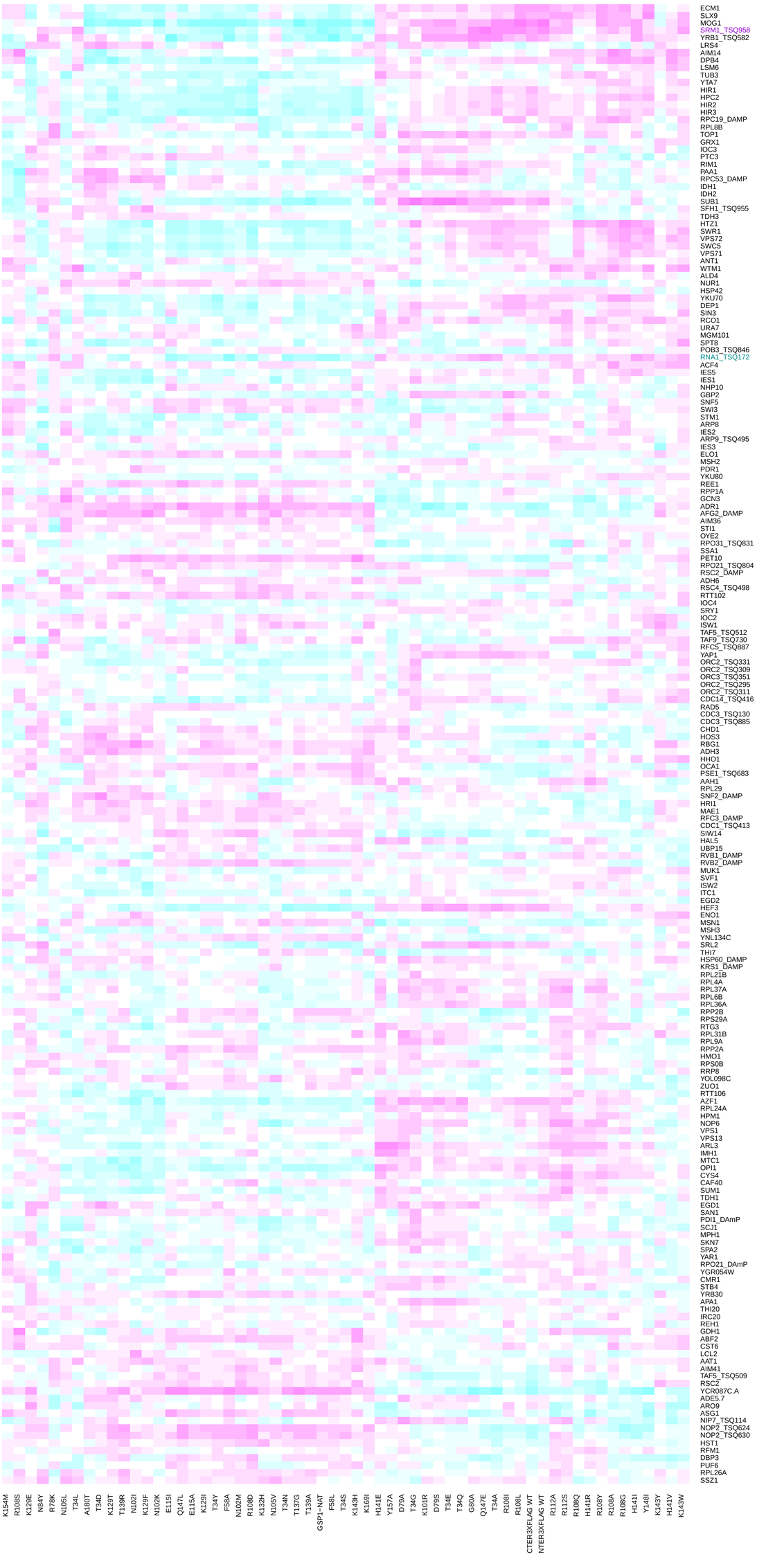

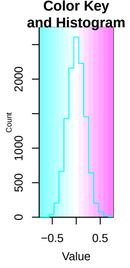

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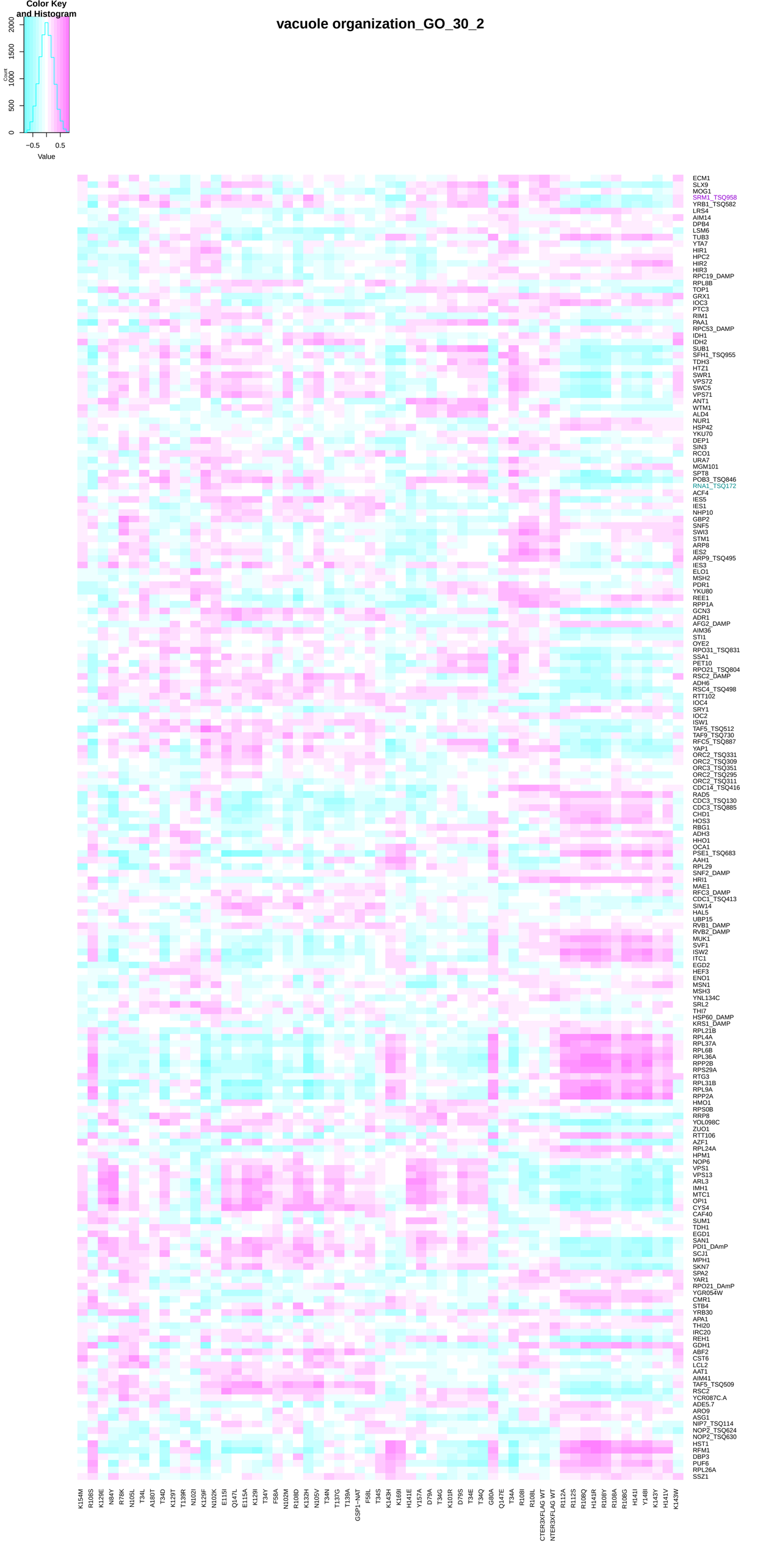
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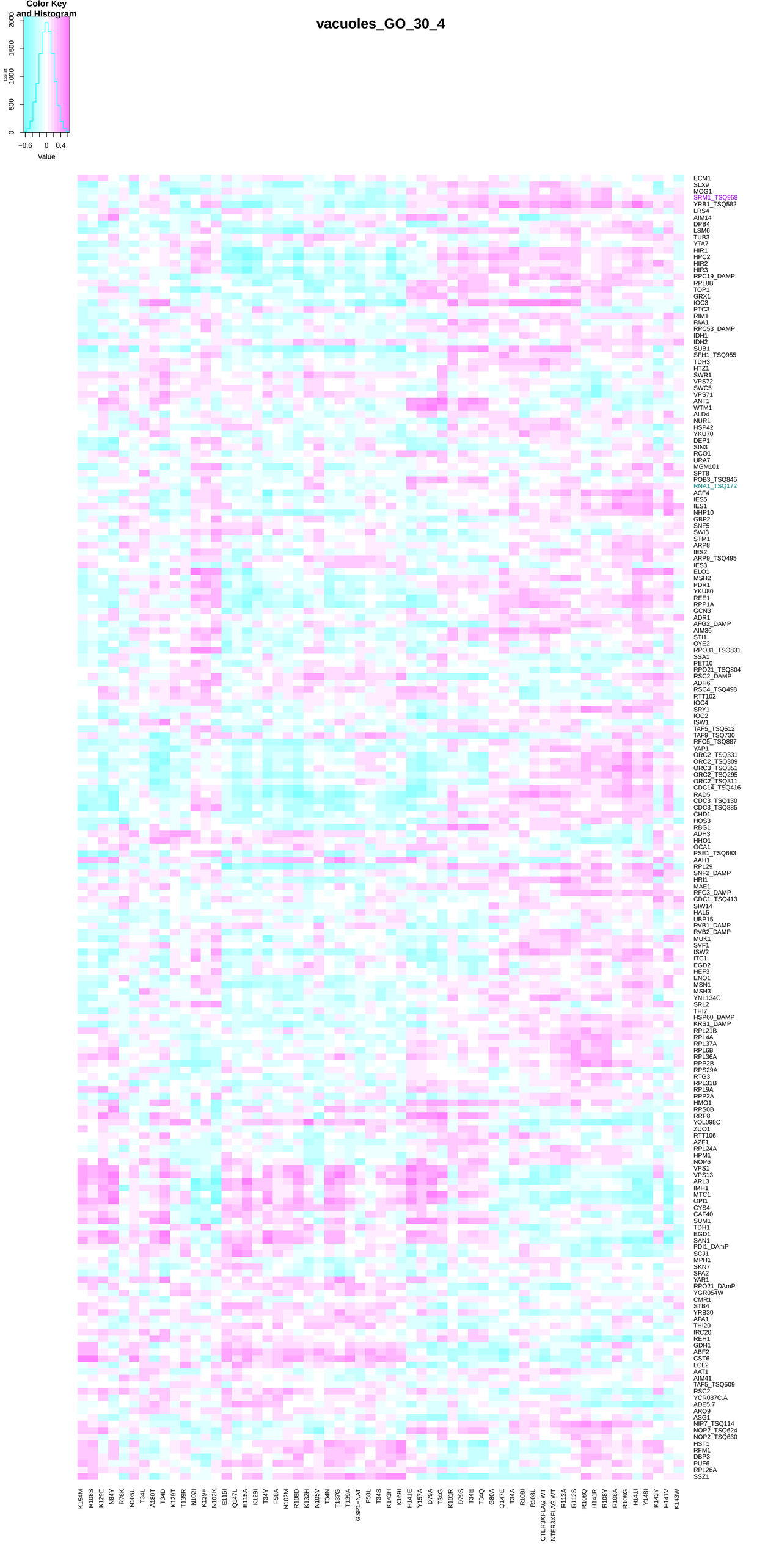
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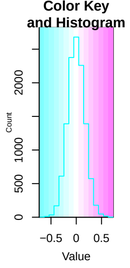

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IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
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AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
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RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
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ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
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1500
2000
2500
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MOG1
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YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
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RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
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R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
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1500
2000
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0.5
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MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
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K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
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R108G
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Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
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2000
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DPB4
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TUB3
YTA7
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HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
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RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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YCR087C.A
ADE5.7
ARO9
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NOP2_TSQ630
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DBP3
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K129E
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R78K
N105L
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K129F
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E115A
K129I
T34Y
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N102M
R108D
K132H
N105V
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T137G
T139A
GSP1−NAT
F58L
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K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
Value
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SLX9
MOG1
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YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
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HPC2
HIR2
HIR3
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RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
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IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
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OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
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SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
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UBP15
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RVB2_DAMP
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SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
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RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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AIM41
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RSC2
YCR087C.A
ADE5.7
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ASG1
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NOP2_TSQ630
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DBP3
PUF6
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R78K
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N102I
K129F
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E115I
Q147L
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K129I
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CTER3XFLAG WT
NTER3XFLAG WT
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Color Key
and Histogram
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LSM6
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HIR2
HIR3
RPC19_DAMP
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TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
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SWR1
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SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
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KRS1_DAMP
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RPL36A
RPP2B
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RTG3
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RPL9A
RPP2A
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RPS0B
RRP8
YOL098C
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SCJ1
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RPO21_DAmP
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PUF6
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K129T
T139R
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K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
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K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
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G80A
Q147E
T34A
R108I
R108L
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NTER3XFLAG WT
R112A
R112S
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R108Y
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R108G
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Y148I
K143Y
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YTA7
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HIR3
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RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
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IDH2
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SFH1_TSQ955
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SWC5
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ALD4
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DEP1
SIN3
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RNA1_TSQ172
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IES1
NHP10
GBP2
SNF5
SWI3
STM1
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IES2
ARP9_TSQ495
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GCN3
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ISW1
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TAF9_TSQ730
RFC5_TSQ887
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ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
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OCA1
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MTC1
OPI1
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TDH1
EGD1
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PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
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STB4
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NTER3XFLAG WT
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TUB3
YTA7
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
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ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
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GCN3
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OYE2
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
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HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
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MAE1
RFC3_DAMP
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RVB2_DAMP
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CYS4
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PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
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STB4
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ABF2
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H141E
Y157A
D79A
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D79S
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G80A
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NTER3XFLAG WT
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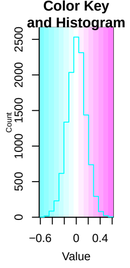
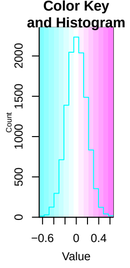


DNA recombination



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DPB4
LSM6
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YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
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GCN3
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AFG2_DAMP
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OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
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SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
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ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
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HRI1
MAE1
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RVB2_DAMP
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HEF3
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OPI1
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TDH1
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SAN1
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SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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AIM41
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YCR087C.A
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ASG1
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Q147L
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Q147E
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Y148I
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K143W

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TUB3
YTA7
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HIR2
HIR3
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RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
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IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
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SWI3
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ARP8
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ARP9_TSQ495
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ELO1
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GCN3
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RAD6
CDC3_TSQ130
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OCA1
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YNL134C
SRL2
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OPI1
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GBP2
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ARP9_TSQ495
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ELO1
MSH2
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GCN3
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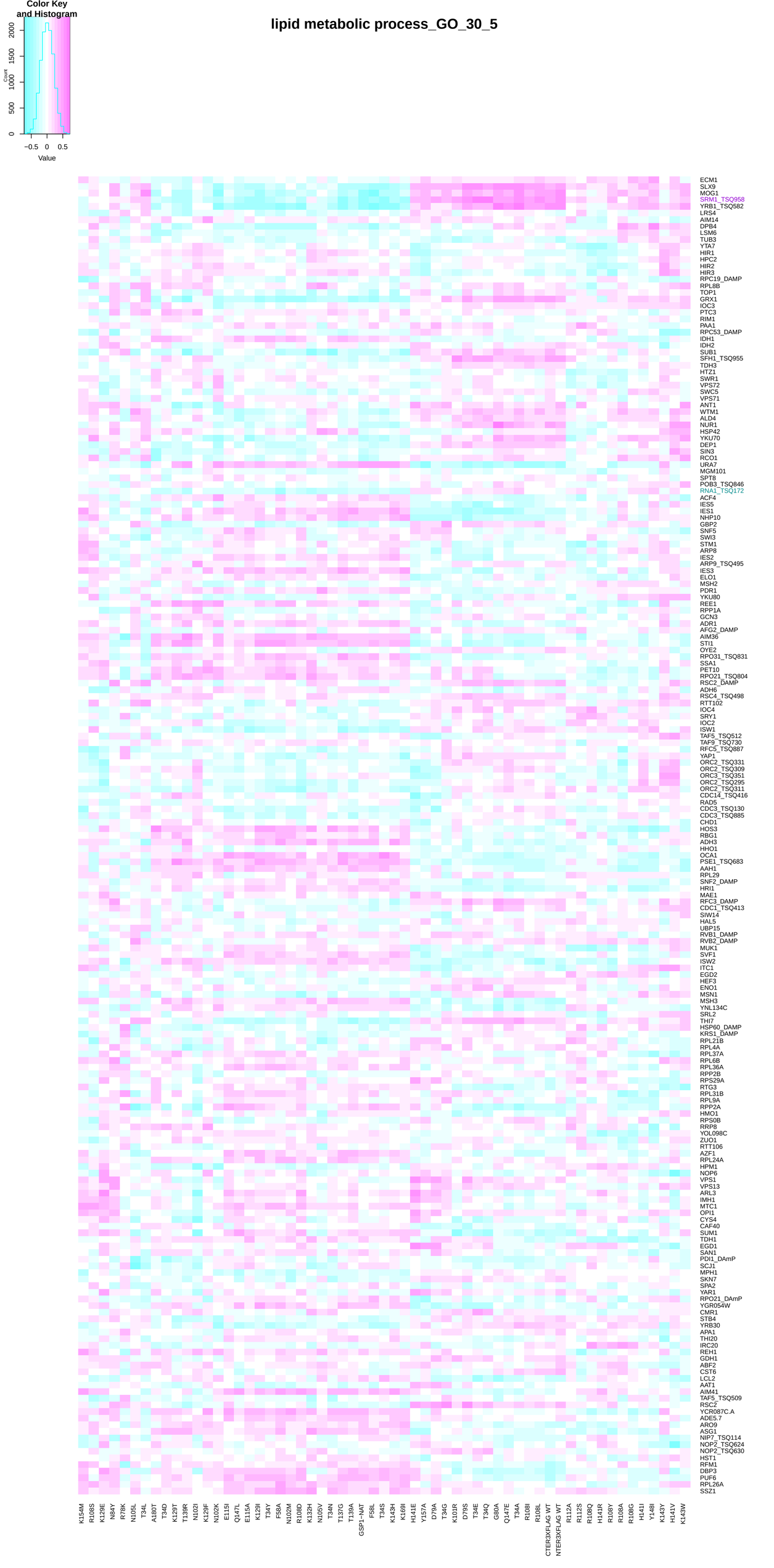
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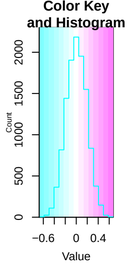

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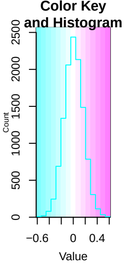

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SPT8
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TAF9_TSQ730
RFC5_TSQ887
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ISW1
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TAF9_TSQ730
RFC5_TSQ887
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ORC2_TSQ309
ORC3_TSQ351
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OCA1
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OPI1
CYS4
CAF40
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TDH1
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SAN1
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SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
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YRB30
APA1
THI20
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REH1
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SSZ1
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RPC19_DAMP
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PTC3
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RPC53_DAMP
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IDH2
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SFH1_TSQ955
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HTZ1
SWR1
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SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
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YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
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YKU80
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GCN3
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OYE2
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SSA1
PET10
RPO21_TSQ804
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ADH6
RSC4_TSQ498
RTT102
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SRY1
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ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
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ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
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ADH3
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OCA1
PSE1_TSQ683
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MAE1
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RPL37A
RPL6B
RPL36A
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HMO1
RPS0B
RRP8
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OPI1
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THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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AIM41
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RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
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SSZ1
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Color Key
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2500
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TOP1
GRX1
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TDH3
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SWC5
VPS71
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WTM1
ALD4
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HSP42
YKU70
DEP1
SIN3
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MGM101
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IES1
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GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
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GCN3
ADR1
AFG2_DAMP
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STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
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ADH6
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SRY1
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TAF9_TSQ730
RFC5_TSQ887
YAP1
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ORC2_TSQ295
ORC2_TSQ311
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RAD6
CDC3_TSQ130
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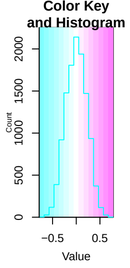

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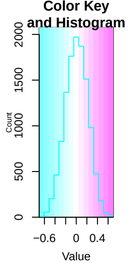

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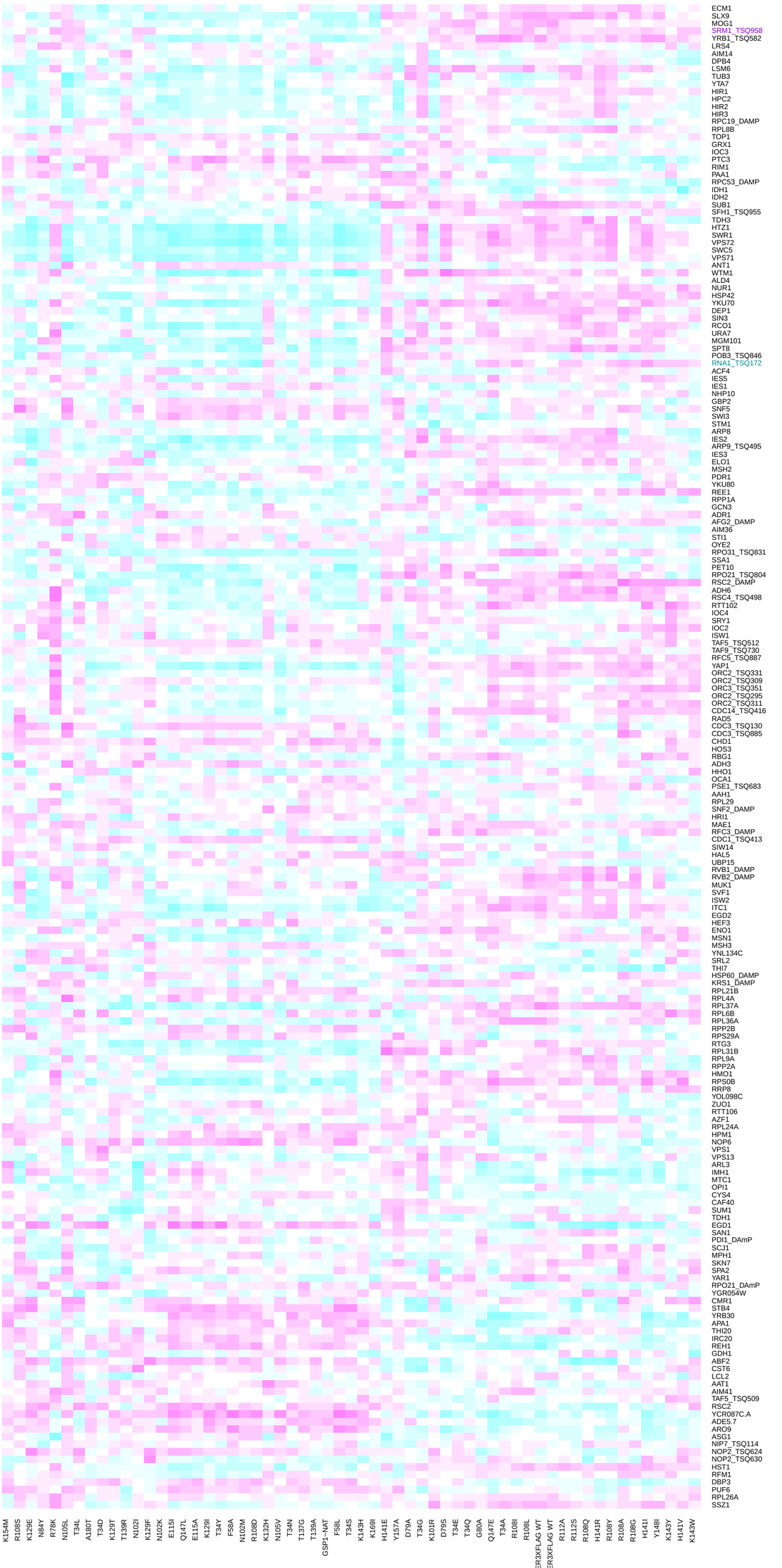

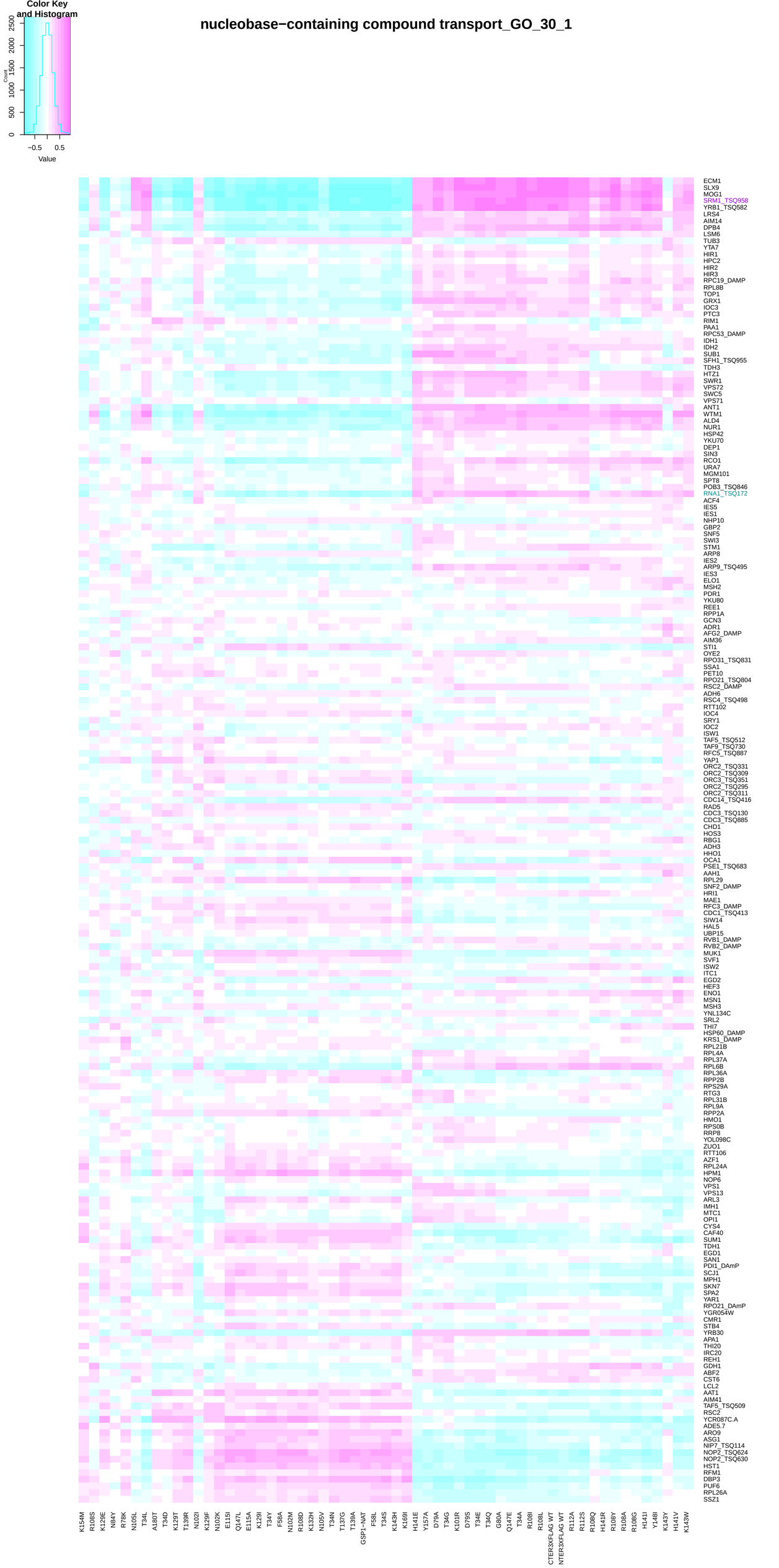
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TUB3
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PTC3
RIM1
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IDH2
SUB1
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VPS72
SWC5
VPS71
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ALD4
NUR1
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DEP1
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RNA1_TSQ172
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IES1
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GBP2
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ARP9_TSQ495
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SSA1
PET10
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ADH6
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SRY1
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ISW1
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TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
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ORC3_TSQ351
ORC2_TSQ295
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RAD6
CDC3_TSQ130
CDC3_TSQ885
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HOS3
RBG1
ADH3
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OCA1
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RPL29
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MAE1
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UBP15
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MSN1
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RTG3
RPL31B
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HMO1
RPS0B
RRP8
YOL098C
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VPS13
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MTC1
OPI1
CYS4
CAF40
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TDH1
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MPH1
SKN7
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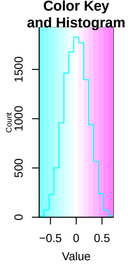

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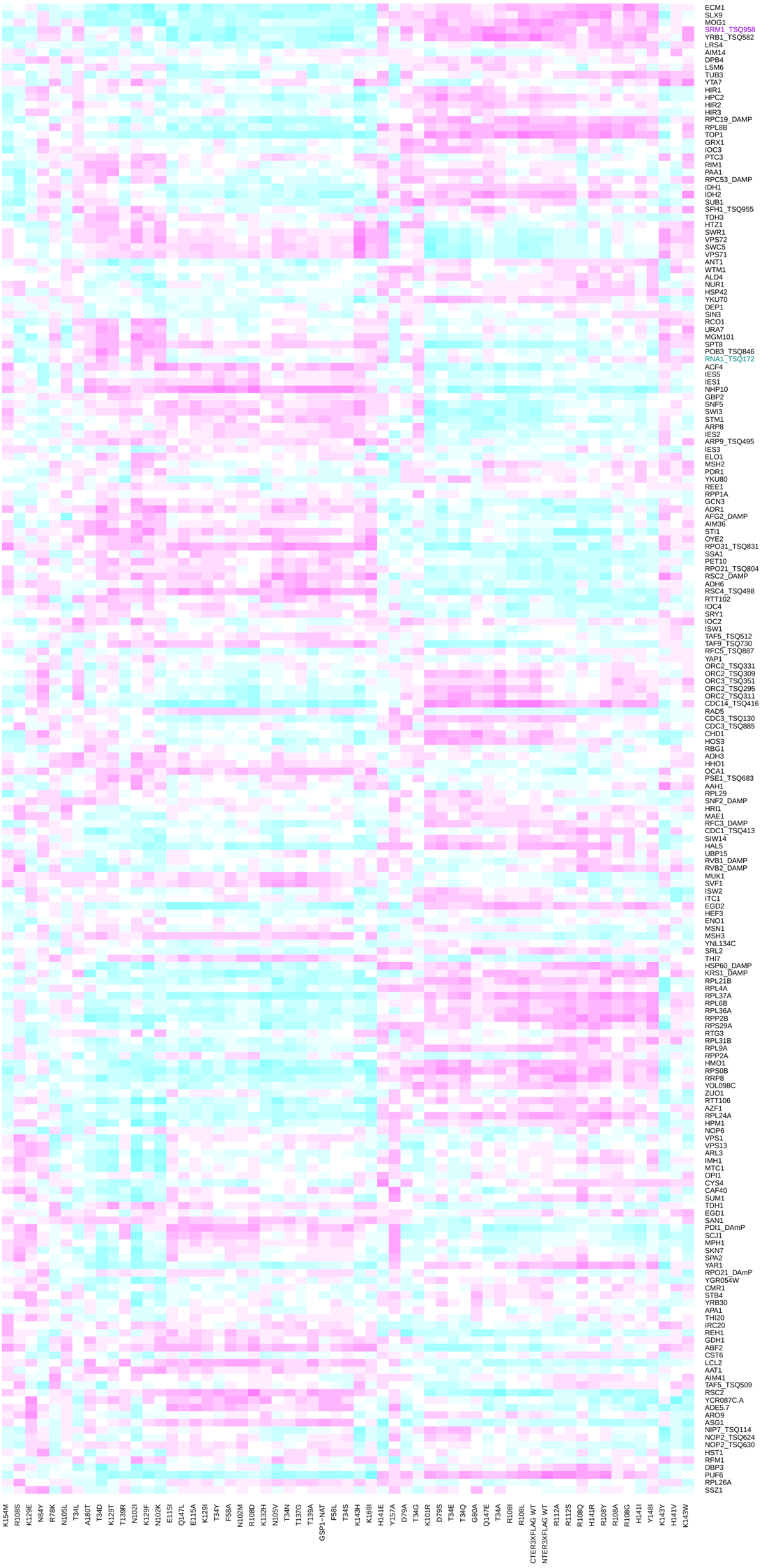

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HPC2
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RPL8B
TOP1
GRX1
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PTC3
RIM1
PAA1
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MGM101
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IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
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YKU80
REE1
RPP1A
GCN3
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OYE2
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SSA1
PET10
RPO21_TSQ804
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ADH6
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RTT102
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SRY1
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ISW1
TAF5_TSQ512
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RFC5_TSQ887
YAP1
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ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
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CHD1
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SWI3
STM1
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GCN3
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ISW1
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TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
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ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
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SVF1
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YRB30
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ABF2
CST6
LCL2
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ASG1
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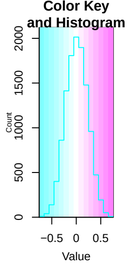

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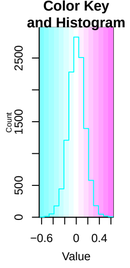
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DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
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IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
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OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
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HHO1
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SCJ1
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SKN7
SPA2
YAR1
RPO21_DAmP
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STB4
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GDH1
ABF2
CST6
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E115I
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NTER3XFLAG WT
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TUB3
YTA7
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
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GBP2
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ARP9_TSQ495
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GCN3
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SSA1
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ADH6
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SRY1
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TAF9_TSQ730
RFC5_TSQ887
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ORC2_TSQ309
ORC3_TSQ351
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ORC2_TSQ311
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OCA1
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MAE1
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YKU70
DEP1
SIN3
RCO1
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MGM101
SPT8
POB3_TSQ846
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SWI3
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RAD5
CDC3_TSQ130
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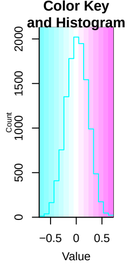

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LSM6
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YTA7
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
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GCN3
ADR1
AFG2_DAMP
AIM36
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OYE2
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SSA1
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RSC2_DAMP
ADH6
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TAF9_TSQ730
RFC5_TSQ887
YAP1
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ADH3
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AAH1
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OPI1
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SAN1
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SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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ADE5.7
ARO9
ASG1
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NOP2_TSQ630
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DBP3
PUF6
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Y157A
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T34G
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R108L
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NTER3XFLAG WT
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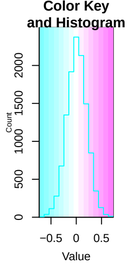
K143W



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DPB4
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TUB3
YTA7
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HPC2
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HIR3
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TOP1
GRX1
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PTC3
RIM1
PAA1
RPC53_DAMP
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IDH2
SUB1
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TDH3
HTZ1
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ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
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STI1
OYE2
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
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SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
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RPL6B
RPL36A
RPP2B
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RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
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PUF6
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
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ARP9_TSQ495
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GCN3
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OYE2
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SSA1
PET10
RPO21_TSQ804
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ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
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KRS1_DAMP
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RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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TAF5_TSQ509
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ADE5.7
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LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
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MAE1
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RVB2_DAMP
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SVF1
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HEF3
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MSH3
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HMO1
RPS0B
RRP8
YOL098C
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NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
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RPO21_DAmP
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Y157A
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YTA7
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
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IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
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SRY1
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ISW1
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RFC5_TSQ887
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ORC2_TSQ331
ORC2_TSQ309
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ORC2_TSQ295
ORC2_TSQ311
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RAD6
CDC3_TSQ130
CDC3_TSQ885
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ADH3
HHO1
OCA1
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AAH1
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MTC1
OPI1
CYS4
CAF40
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TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
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STB4
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THI20
IRC20
REH1
GDH1
ABF2
CST6
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ASG1
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NOP2_TSQ624
NOP2_TSQ630
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RFM1
DBP3
PUF6
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R78K
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Y157A
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NTER3XFLAG WT
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Color Key
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DPB4
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HIR2
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GRX1
IOC3
PTC3
RIM1
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IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
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WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
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ACF4
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IES1
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GBP2
SNF5
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STM1
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GCN3
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SSA1
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SRY1
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ISW1
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TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
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CHD1
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AAH1
RPL29
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HRI1
MAE1
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HAL5
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RVB2_DAMP
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SVF1
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ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
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KRS1_DAMP
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RPL6B
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RPS29A
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OPI1
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SKN7
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GDH1
ABF2
CST6
LCL2
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RSC2
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ADE5.7
ARO9
ASG1
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NOP2_TSQ630
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RFM1
DBP3
PUF6
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R78K
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K129I
T34Y
F58A
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GSP1−NAT
F58L
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Y157A
D79A
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T34A
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R108L
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NTER3XFLAG WT
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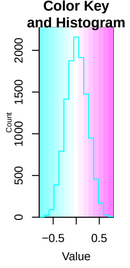
K143W



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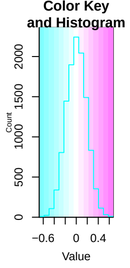

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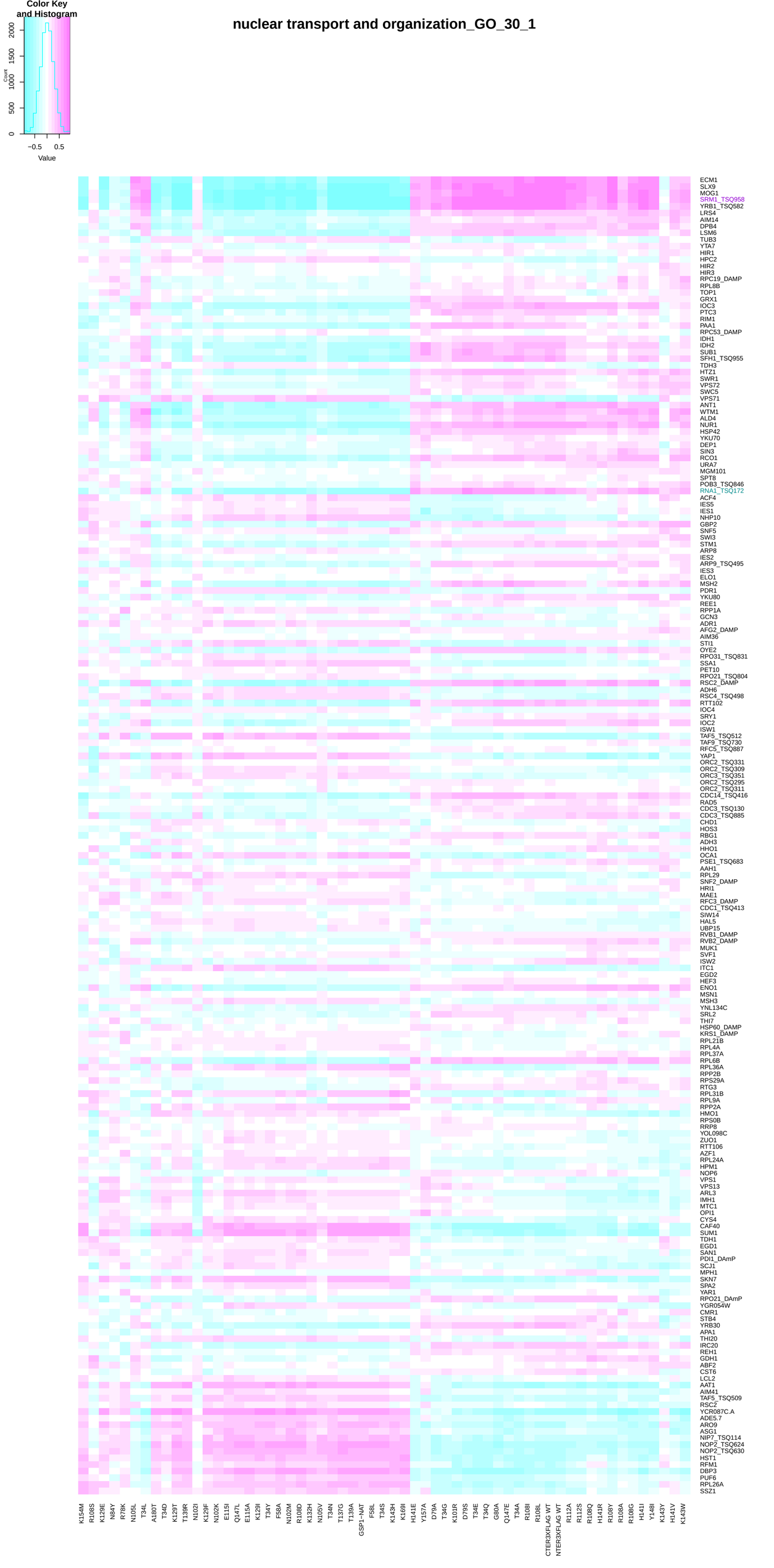
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DPB4
LSM6
TUB3
YTA7
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
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IOC3
PTC3
RIM1
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RPC53_DAMP
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IDH2
SUB1
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HTZ1
SWR1
VPS72
SWC5
VPS71
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WTM1
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NUR1
HSP42
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DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
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AFG2_DAMP
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STI1
OYE2
RPO31_TSQ831
SSA1
PET10
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RSC2_DAMP
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IOC4
SRY1
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ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
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ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
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CDC14_TSQ416
RAD6
CDC3_TSQ130
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RVB2_DAMP
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MSH3
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SRL2
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RPL6B
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RPS29A
RTG3
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RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
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VPS13
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IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
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IRC20
REH1
GDH1
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CST6
LCL2
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ADE5.7
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ASG1
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NOP2_TSQ630
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RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
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R112S
R108Q
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R108Y
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R108G
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Y148I
K143Y
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K143W

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DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
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RPC53_DAMP
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IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
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SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
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ADH6
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SRY1
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ISW1
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TAF9_TSQ730
RFC5_TSQ887
YAP1
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ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
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HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
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RVB2_DAMP
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SVF1
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HEF3
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RPL6B
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RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
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RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
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RSC2
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ARO9
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NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
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SSZ1
K154M
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T34L
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K129I
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F58A
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Y157A
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G80A
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R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
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TUB3
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HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
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HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
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KRS1_DAMP
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RPL4A
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RPL6B
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RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
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NOP6
VPS1
VPS13
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MTC1
OPI1
CYS4
CAF40
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TDH1
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PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
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GSP1−NAT
F58L
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K169I
H141E
Y157A
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T34G
K101R
D79S
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T34Q
G80A
Q147E
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NTER3XFLAG WT
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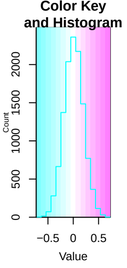
K143W



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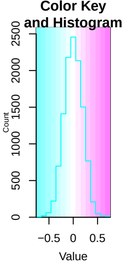

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YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
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ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
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RVB2_DAMP
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SVF1
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MSN1
MSH3
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HMO1
RPS0B
RRP8
YOL098C
ZUO1
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VPS13
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MTC1
OPI1
CYS4
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TDH1
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SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
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TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
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SSZ1
K154M
R108S
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N84Y
R78K
N105L
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A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
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T137G
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GSP1−NAT
F58L
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K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
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R108Y
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R108G
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Y148I
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H141V
K143W

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SRM1_TSQ958
YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
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RPP1A
GCN3
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AFG2_DAMP
AIM36
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OYE2
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
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SRY1
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TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
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ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
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ADH3
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OCA1
PSE1_TSQ683
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RVB2_DAMP
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SVF1
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ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
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KRS1_DAMP
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RPL37A
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RPP2A
HMO1
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RRP8
YOL098C
ZUO1
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NOP6
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VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
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EGD1
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PDI1_DAmP
SCJ1
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SKN7
SPA2
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RPO21_DAmP
YGR054W
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STB4
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APA1
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REH1
GDH1
ABF2
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LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
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NOP2_TSQ624
NOP2_TSQ630
HST1
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DBP3
PUF6
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R78K
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VPS71
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ALD4
NUR1
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YKU70
DEP1
SIN3
RCO1
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MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
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IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
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STI1
OYE2
RPO31_TSQ831
SSA1
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RSC4_TSQ498
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IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
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ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
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HAL5
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RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
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RPS29A
RTG3
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RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
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RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
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NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
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T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Golgi vesicle transport_GO_30_3
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YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
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ITC1
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HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
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KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
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T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
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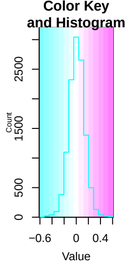

meiotic cell cycle

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MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
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RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
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GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
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CTER3XFLAG WT
NTER3XFLAG WT
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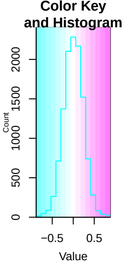

lipid binding_GO_30_2

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YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
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HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
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RPP2B
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RTG3
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RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
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NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
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APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
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RSC2
YCR087C.A
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ARO9
ASG1
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NOP2_TSQ624
NOP2_TSQ630
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DBP3
PUF6
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Q147L
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GSP1−NAT
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Y157A
D79A
T34G
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D79S
T34E
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G80A
Q147E
T34A
R108I
R108L
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NTER3XFLAG WT
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R112S
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K143Y
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K143W

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YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
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HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
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UBP15
RVB1_DAMP
RVB2_DAMP
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SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
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KRS1_DAMP
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RPL6B
RPL36A
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RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
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RPL24A
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NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
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TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
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YGR054W
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IRC20
REH1
GDH1
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LCL2
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YCR087C.A
ADE5.7
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NOP2_TSQ630
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RFM1
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R78K
N105L
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F58A
N102M
R108D
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N105V
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F58L
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Color Key
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LSM6
TUB3
YTA7
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
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UBP15
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RVB2_DAMP
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SVF1
ISW2
ITC1
EGD2
HEF3
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MSN1
MSH3
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SRL2
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RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
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RSC2
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ARO9
ASG1
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NOP2_TSQ624
NOP2_TSQ630
HST1
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DBP3
PUF6
RPL26A
SSZ1
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K129E
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A180T
T34D
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T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
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K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
0
500
1000
1500
2000
−0.6
0
0.4
Value
telomere organization
ECM1
SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
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HAL5
UBP15
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RVB2_DAMP
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SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
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HMO1
RPS0B
RRP8
YOL098C
ZUO1
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RPL24A
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NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
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REH1
GDH1
ABF2
CST6
LCL2
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YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
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R78K
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E115I
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F58A
N102M
R108D
K132H
N105V
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F58L
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K143H
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Y157A
D79A
T34G
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D79S
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T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
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R108Y
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R108G
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Y148I
K143Y
H141V
K143W

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1500
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SRM1_TSQ958
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LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
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RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
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R108Q
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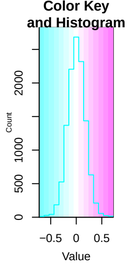
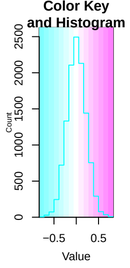
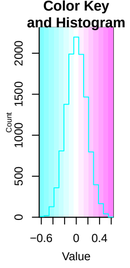
K143W



regulation of transport



regulation of transport_GO_30_1



vacuole_GO_30_3

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YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
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KRS1_DAMP
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RPL4A
RPL37A
RPL6B
RPL36A
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RTG3
RPL31B
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RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
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ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
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RFM1
DBP3
PUF6
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K154M
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N105L
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E115I
Q147L
E115A
K129I
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F58A
N102M
R108D
K132H
N105V
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T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
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Count
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1500
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0.4
Value
vacuoles_GO_30_6
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SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
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RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
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HRI1
MAE1
RFC3_DAMP
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SVF1
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HEF3
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MSN1
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RPL37A
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RPP2A
HMO1
RPS0B
RRP8
YOL098C
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MTC1
OPI1
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SCJ1
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SKN7
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YAR1
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ABF2
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NOP2_TSQ630
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DBP3
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Y157A
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NTER3XFLAG WT
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
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IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
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GCN3
ADR1
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OYE2
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SSA1
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RSC2_DAMP
ADH6
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SRY1
IOC2
ISW1
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TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
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ADH3
HHO1
OCA1
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MAE1
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RVB2_DAMP
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HEF3
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VPS13
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MTC1
OPI1
CYS4
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TDH1
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SCJ1
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THI20
IRC20
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ABF2
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NOP2_TSQ630
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RFM1
DBP3
PUF6
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SSZ1
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R78K
N105L
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A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
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K169I
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Y157A
D79A
T34G
K101R
D79S
T34E
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Q147E
T34A
R108I
R108L
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NTER3XFLAG WT
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HIR2
HIR3
RPC19_DAMP
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TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
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ARP9_TSQ495
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ELO1
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GCN3
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SSA1
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ADH6
RSC4_TSQ498
RTT102
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SRY1
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ISW1
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TAF9_TSQ730
RFC5_TSQ887
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ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
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CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
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YOL098C
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TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
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YGR054W
CMR1
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THI20
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GDH1
ABF2
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NTER3XFLAG WT
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
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GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
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HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
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SVF1
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ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
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SRL2
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KRS1_DAMP
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RPL4A
RPL37A
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RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
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HPM1
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VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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AIM41
TAF5_TSQ509
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ADE5.7
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NOP2_TSQ630
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DBP3
PUF6
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GSP1−NAT
F58L
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Y157A
D79A
T34G
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D79S
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NTER3XFLAG WT
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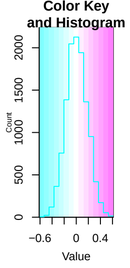

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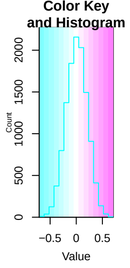

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LSM6
TUB3
YTA7
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HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
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IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
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VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
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YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
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RVB2_DAMP
MUK1
SVF1
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ITC1
EGD2
HEF3
ENO1
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RPS0B
RRP8
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SCJ1
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SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
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STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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YCR087C.A
ADE5.7
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ASG1
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NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
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R78K
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Y157A
D79A
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K101R
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T34E
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G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
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R108G
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Y148I
K143Y
H141V
K143W

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YRB1_TSQ582
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DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
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SWR1
VPS72
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ALD4
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HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
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IES2
ARP9_TSQ495
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ELO1
MSH2
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REE1
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GCN3
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AFG2_DAMP
AIM36
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OYE2
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
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OCA1
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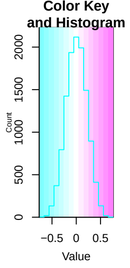
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GRX1
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PTC3
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PAA1
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SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
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ALD4
NUR1
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YKU70
DEP1
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ORC3_TSQ351
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H141E
Y157A
D79A
T34G
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D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
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R112S
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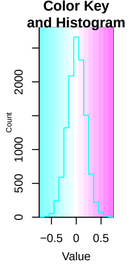
Golgi and ER_GO_30_4



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DPB4
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TUB3
YTA7
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
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KRS1_DAMP
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RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
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RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
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RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
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T34D
K129T
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D79A
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D79S
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Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
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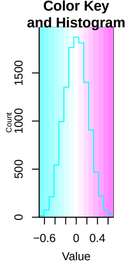
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SRM1_TSQ958
YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
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KRS1_DAMP
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RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
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RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
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THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
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NOP2_TSQ624
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HST1
RFM1
DBP3
PUF6
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SSZ1
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R78K
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T139R
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H141E
Y157A
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D79S
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G80A
Q147E
T34A
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R108L
CTER3XFLAG WT
NTER3XFLAG WT
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Color Key
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
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MAE1
RFC3_DAMP
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RVB1_DAMP
RVB2_DAMP
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SVF1
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HEF3
ENO1
MSN1
MSH3
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KRS1_DAMP
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RPL37A
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RPL31B
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HMO1
RPS0B
RRP8
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VPS13
ARL3
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MTC1
OPI1
CYS4
CAF40
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TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
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IRC20
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GDH1
ABF2
CST6
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ASG1
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Y157A
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D79S
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Q147E
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R108L
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NTER3XFLAG WT
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K143W

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DPB4
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TUB3
YTA7
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
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GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
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UBP15
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RVB2_DAMP
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SVF1
ISW2
ITC1
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HEF3
ENO1
MSN1
MSH3
YNL134C
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THI7
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KRS1_DAMP
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RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
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VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
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TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
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YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
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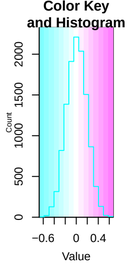

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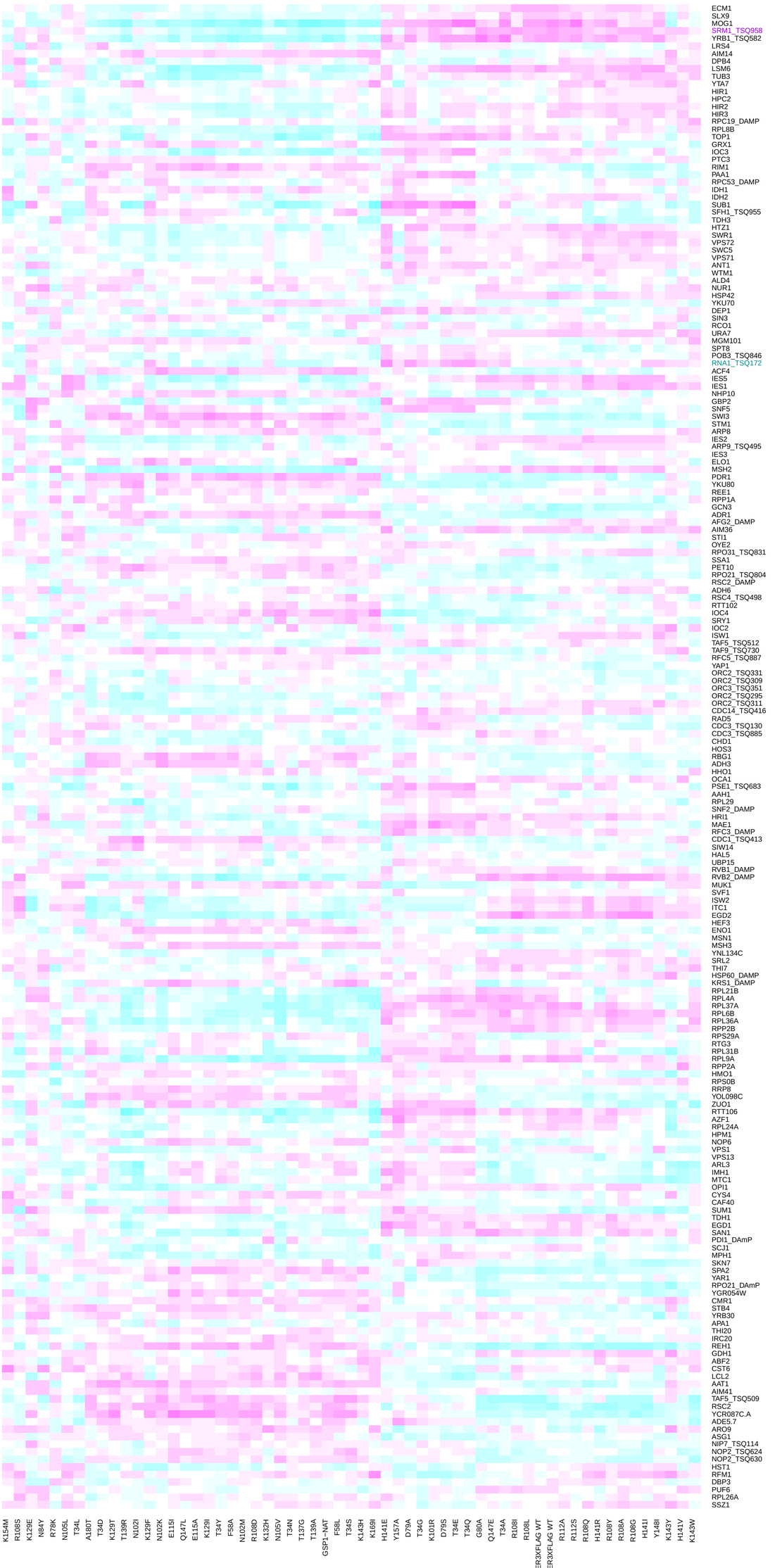
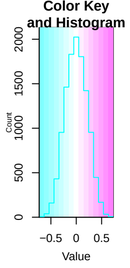
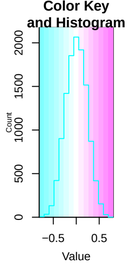




cellular bud_GO_30_4



Golgi and ER_GO_30_14

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YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
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TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
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RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
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RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
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HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
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TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
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ASG1
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NOP2_TSQ624
NOP2_TSQ630
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Q147L
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TOP1
GRX1
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PTC3
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IDH2
SUB1
SFH1_TSQ955
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SWR1
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VPS71
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WTM1
ALD4
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HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
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GBP2
SNF5
SWI3
STM1
ARP8
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ARP9_TSQ495
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ELO1
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REE1
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RFC5_TSQ887
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ORC2_TSQ309
ORC3_TSQ351
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CDC14_TSQ416
RAD6
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OCA1
PSE1_TSQ683
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YOL098C
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OPI1
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CAF40
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SKN7
SPA2
YAR1
RPO21_DAmP
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CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
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LCL2
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PUF6
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CTER3XFLAG WT
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TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
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RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
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MAE1
RFC3_DAMP
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RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
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SRL2
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RTG3
RPL31B
RPL9A
RPP2A
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RPS0B
RRP8
YOL098C
ZUO1
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IMH1
MTC1
OPI1
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CAF40
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TDH1
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SAN1
PDI1_DAmP
SCJ1
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SKN7
SPA2
YAR1
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CMR1
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NOP2_TSQ630
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E115I
Q147L
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Y157A
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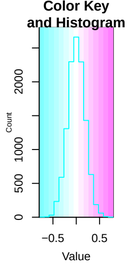

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GRX1
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PTC3
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SIN3
RCO1
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SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
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ELO1
MSH2
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REE1
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GCN3
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PET10
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ADH6
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RFC5_TSQ887
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ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
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OCA1
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MAE1
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HEF3
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MSN1
MSH3
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RPS0B
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OPI1
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SCJ1
MPH1
SKN7
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CST6
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T34A
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R108L
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NTER3XFLAG WT
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Color Key
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YRB1_TSQ582
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TUB3
YTA7
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HPC2
HIR2
HIR3
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TOP1
GRX1
IOC3
PTC3
RIM1
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IDH2
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SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
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YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
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GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
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ADH6
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SRY1
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ISW1
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TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
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RBG1
ADH3
HHO1
OCA1
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AAH1
RPL29
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MAE1
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HEF3
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MSH3
YNL134C
SRL2
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REH1
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ADE5.7
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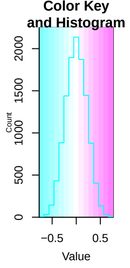

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HIR3
RPC19_DAMP
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TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
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IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
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ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
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STI1
OYE2
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SSA1
PET10
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ADH6
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SRY1
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RFC5_TSQ887
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ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
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OPI1
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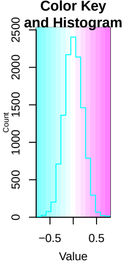

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TUB3
YTA7
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HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
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IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
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RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
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HAL5
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RVB2_DAMP
MUK1
SVF1
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RRP8
YOL098C
ZUO1
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AZF1
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IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
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IRC20
REH1
GDH1
ABF2
CST6
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PUF6
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SSZ1
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H141E
Y157A
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T34G
K101R
D79S
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Q147E
T34A
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R108L
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NTER3XFLAG WT
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Y148I
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H141V
K143W

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DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
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GCN3
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STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
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HRI1
MAE1
RFC3_DAMP
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UBP15
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RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
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HEF3
ENO1
MSN1
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KRS1_DAMP
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RPL37A
RPL6B
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RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
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RPS0B
RRP8
YOL098C
ZUO1
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AZF1
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NOP6
VPS1
VPS13
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MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
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SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
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CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
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YCR087C.A
ADE5.7
ARO9
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NOP2_TSQ630
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NTER3XFLAG WT
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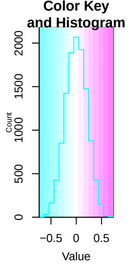

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DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
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GCN3
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OYE2
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
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HRI1
MAE1
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MUK1
SVF1
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ITC1
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HEF3
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KRS1_DAMP
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RPL37A
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RPL36A
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RPL31B
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MTC1
OPI1
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CAF40
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TDH1
EGD1
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SCJ1
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SKN7
SPA2
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YGR054W
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REH1
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G80A
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NTER3XFLAG WT
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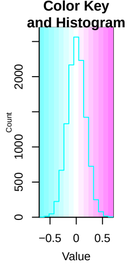

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DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
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IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
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GCN3
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AFG2_DAMP
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STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
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SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
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AAH1
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RFC3_DAMP
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RVB2_DAMP
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MTC1
OPI1
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TDH1
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SCJ1
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SKN7
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REH1
GDH1
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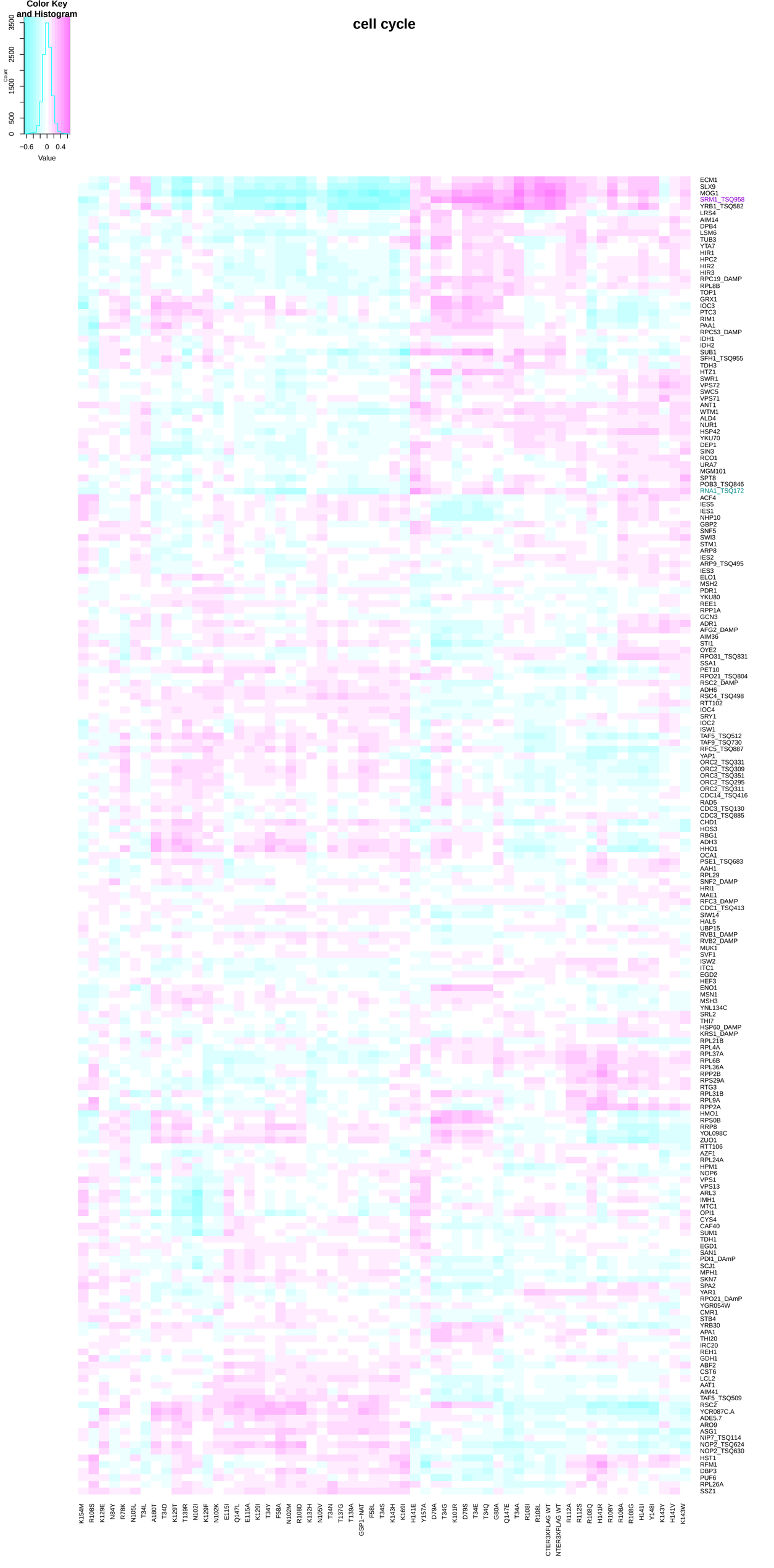
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YTA7
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
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HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
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RNA1_TSQ172
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IES5
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NHP10
GBP2
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TAF9_TSQ730
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Color Key
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DPB4
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IDH2
SUB1
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TDH3
HTZ1
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SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
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KRS1_DAMP
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RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
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R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
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1000
1500
2000
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Value
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SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K160I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
0
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1000
1500
−0.6
0
0.4
Value
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SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
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AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
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R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
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E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
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K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
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R108Y
R108A
R108G
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Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
0
500
1000
1500
2000
−0.6
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0.4
Value
cellular respiration
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SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
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R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
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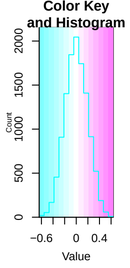
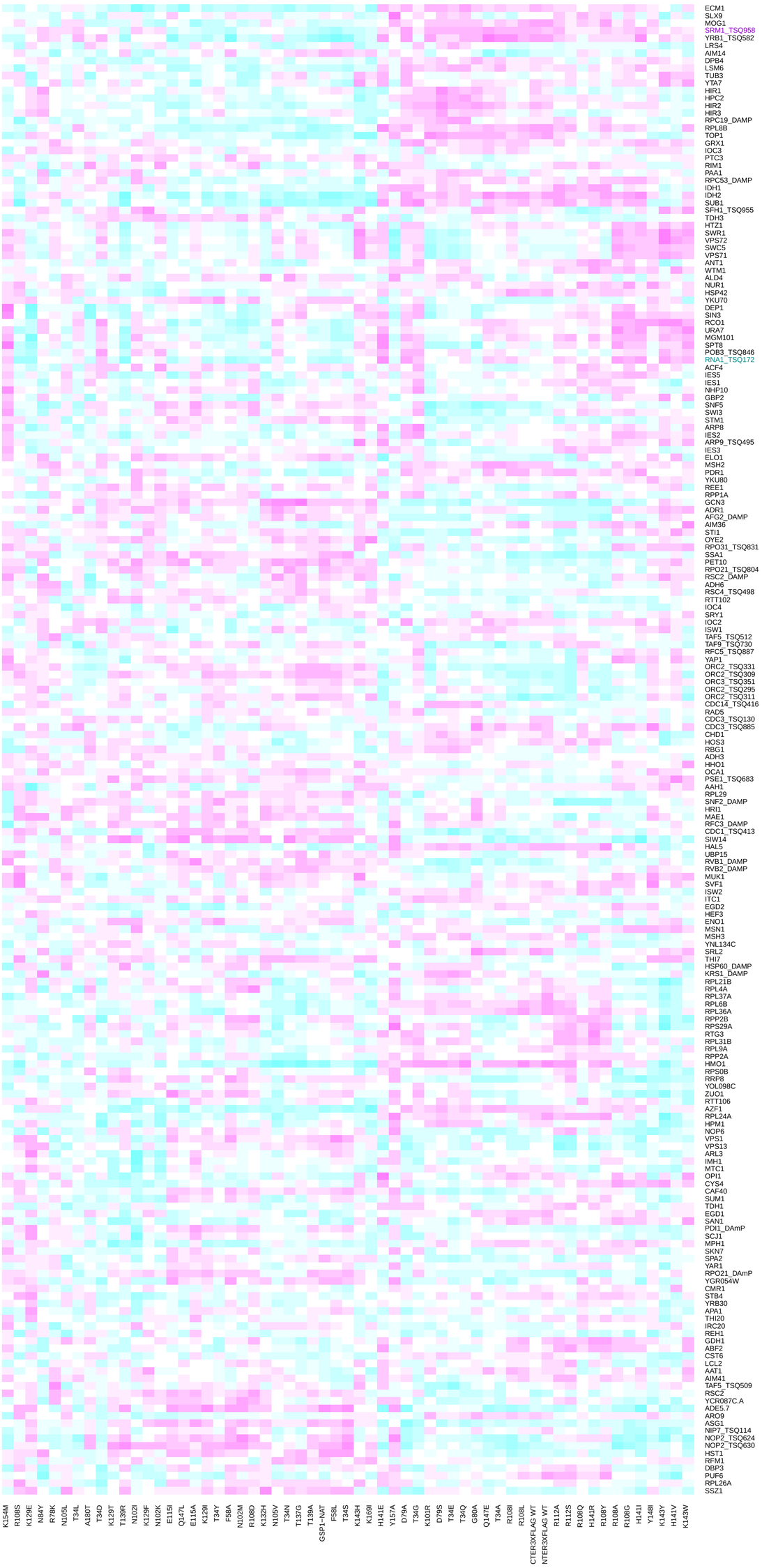
H141V
K143W



cellular respiration_GO_30_1



Color Key
and Histogram
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SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
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RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
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T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
0
500
1000
1500
2000
−0.6
0
0.4
Value
response to oxidative stress_GO_30_1
ECM1
SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
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ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
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MAE1
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CDC1_TSQ413
SIW14
HAL5
UBP15
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RVB2_DAMP
MUK1
SVF1
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ITC1
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HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
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KRS1_DAMP
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HMO1
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RRP8
YOL098C
ZUO1
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AZF1
RPL24A
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NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
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NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
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A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
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F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
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R112S
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H141R
R108Y
R108A
R108G
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Y148I
K143Y
H141V
K143W

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YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
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SRL2
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RPL36A
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RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
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R112S
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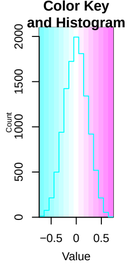
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W



ribosome_GO_30_5

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and Histogram
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SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
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RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
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NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
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R78K
N105L
T34L
A180T
T34D
K129T
T139R
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K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
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K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
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MOG1
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YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
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RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
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RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
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AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
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SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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YCR087C.A
ADE5.7
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NOP2_TSQ624
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D79A
T34G
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NTER3XFLAG WT
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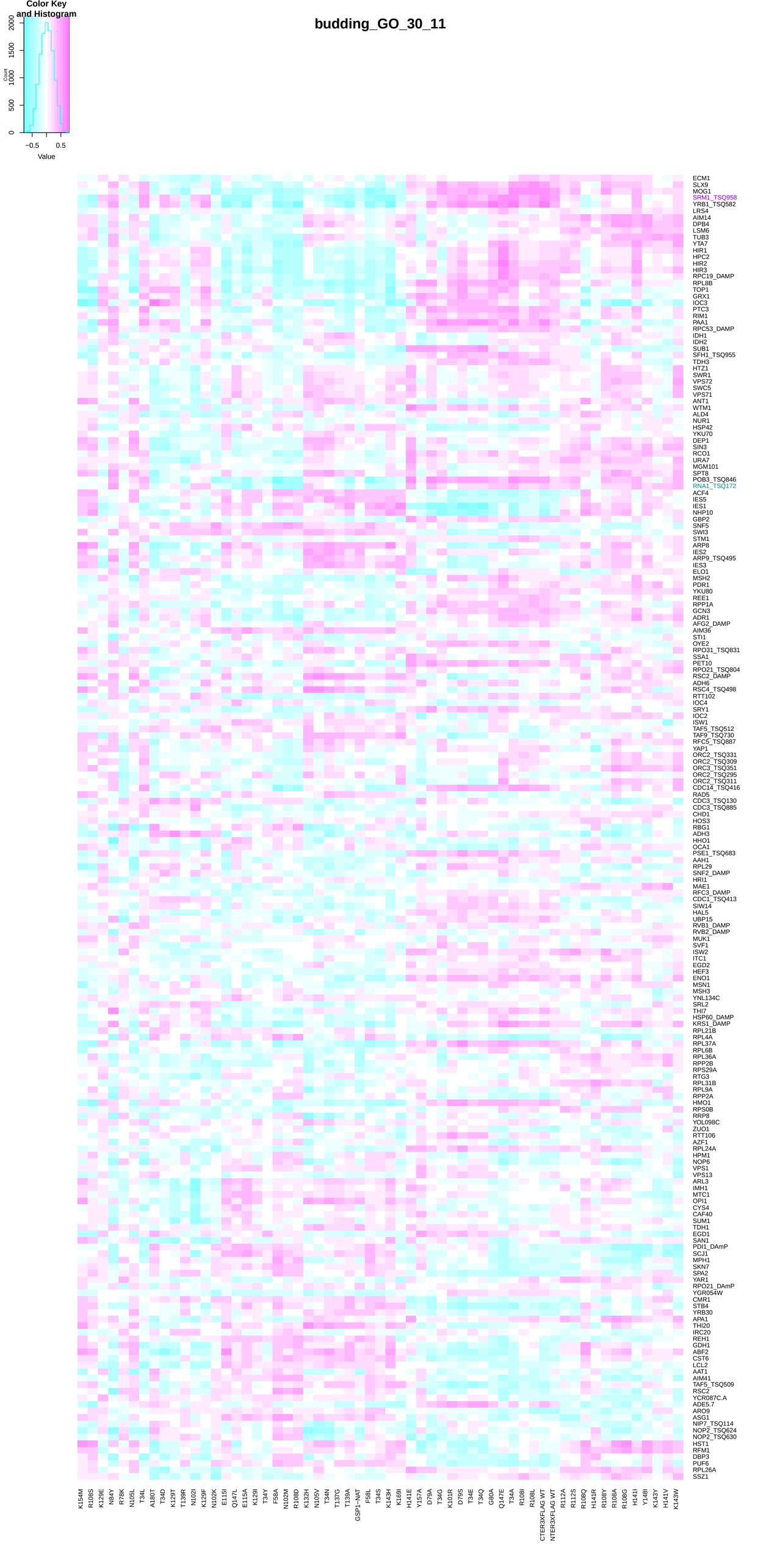
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YTA7
HIR1
HPC2
HIR2
HIR3
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TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
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STI1
OYE2
RPO31_TSQ831
SSA1
PET10
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RSC2_DAMP
ADH6
RSC4_TSQ498
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SRY1
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ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
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RBG1
ADH3
HHO1
OCA1
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AAH1
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HRI1
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RFC3_DAMP
CDC1_TSQ413
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UBP15
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RVB2_DAMP
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SVF1
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ITC1
EGD2
HEF3
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MSN1
MSH3
YNL134C
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RPP2A
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RPS0B
RRP8
YOL098C
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IMH1
MTC1
OPI1
CYS4
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TDH1
EGD1
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PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
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YGR054W
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IRC20
REH1
GDH1
ABF2
CST6
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NOP2_TSQ630
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DBP3
PUF6
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NTER3XFLAG WT
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K143Y
H141V
K143W

Color Key
and Histogram
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DPB4
LSM6
TUB3
YTA7
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
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AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
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HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
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SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
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RPL4A
RPL37A
RPL6B
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RPP2B
RPS29A
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RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
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HPM1
NOP6
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VPS13
ARL3
IMH1
MTC1
OPI1
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TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
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IDH2
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SWI3
STM1
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IES2
ARP9_TSQ495
IES3
ELO1
MSH2
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GCN3
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SSA1
PET10
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RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
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SRY1
IOC2
ISW1
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TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
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HRI1
MAE1
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UBP15
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SCJ1
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SKN7
SPA2
YAR1
RPO21_DAmP
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ABF2
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YCR087C.A
ADE5.7
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ASG1
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NTER3XFLAG WT
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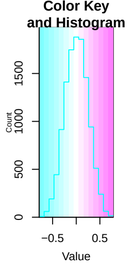

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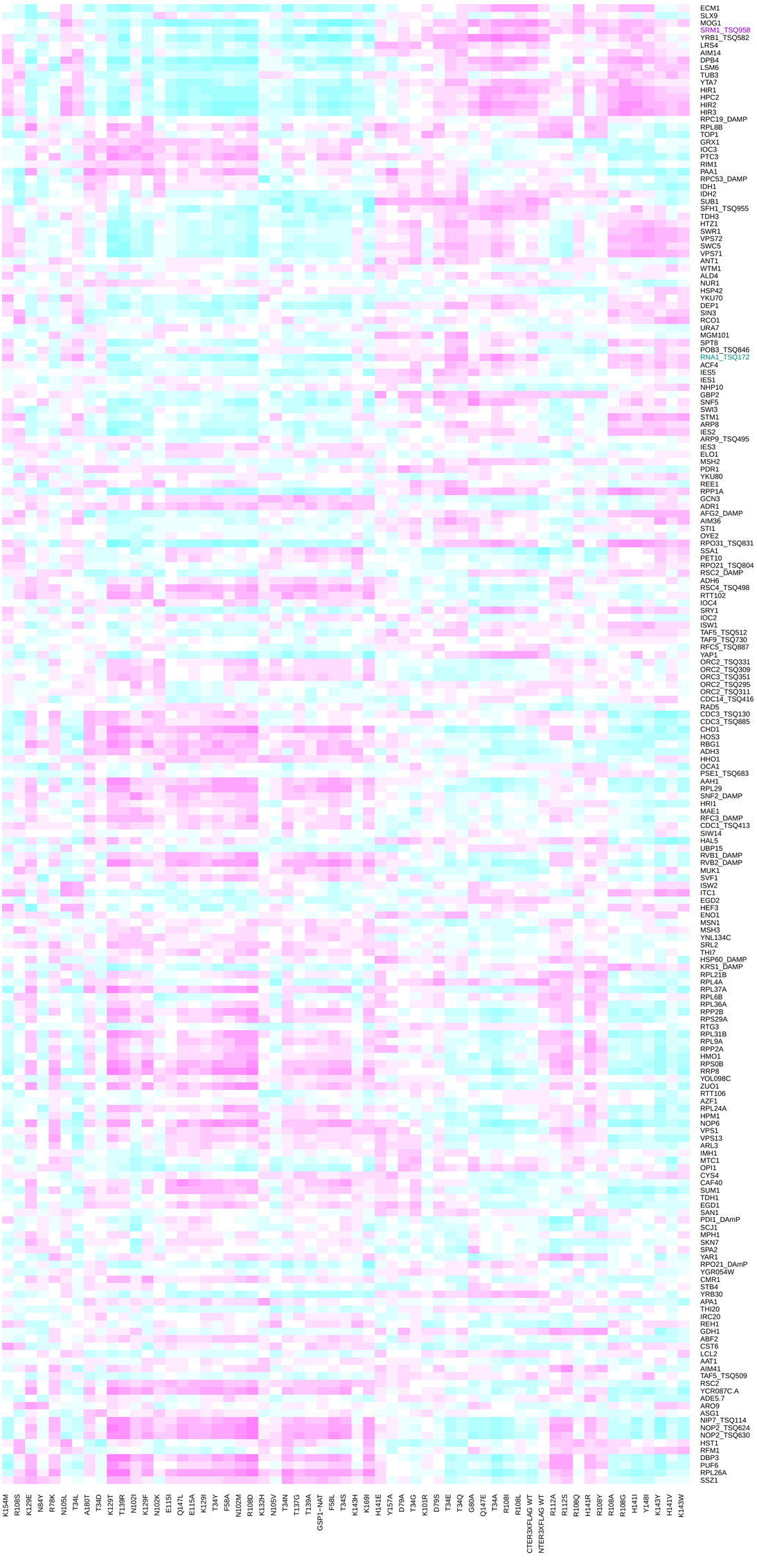

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TUB3
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HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
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YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
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STI1
OYE2
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
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RAD6
CDC3_TSQ130
CDC3_TSQ885
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ADH3
HHO1
OCA1
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AAH1
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MAE1
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SVF1
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RPL37A
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RPL36A
RPP2B
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RTG3
RPL31B
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RPP2A
HMO1
RPS0B
RRP8
YOL098C
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VPS13
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PDI1_DAmP
SCJ1
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SKN7
SPA2
YAR1
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YGR054W
CMR1
STB4
YRB30
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IRC20
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GDH1
ABF2
CST6
LCL2
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ADE5.7
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HST1
RFM1
DBP3
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SSZ1
K154M
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E115A
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TUB3
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
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SUB1
SFH1_TSQ955
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MGM101
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GBP2
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SWI3
STM1
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ARP9_TSQ495
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ELO1
MSH2
PDR1
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GCN3
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AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
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SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
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RAD6
CDC3_TSQ130
CDC3_TSQ885
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RBG1
ADH3
HHO1
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OPI1
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PDI1_DAmP
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SKN7
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PUF6
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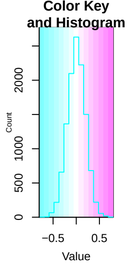

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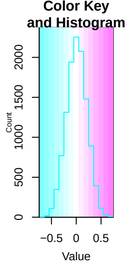

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DPB4
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TUB3
YTA7
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HIR3
RPC19_DAMP
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GRX1
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DEP1
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RCO1
URA7
MGM101
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IES1
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GBP2
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ARP9_TSQ495
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MSH2
PDR1
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GCN3
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OYE2
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SSA1
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RPO21_TSQ804
RSC2_DAMP
ADH6
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ORC2_TSQ309
ORC3_TSQ351
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ORC2_TSQ311
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TUB3
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HIR2
HIR3
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GRX1
IOC3
PTC3
RIM1
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IDH2
SUB1
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VPS71
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ALD4
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YKU70
DEP1
SIN3
RCO1
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POB3_TSQ846
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IES1
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GBP2
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ARP9_TSQ495
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SRY1
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ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
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ARL3
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MTC1
OPI1
CYS4
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GDH1
ABF2
CST6
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RSC2
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ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
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DBP3
PUF6
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R78K
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N102M
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H141V
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
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RPL37A
RPL6B
RPL36A
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RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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AIM41
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RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
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NOP2_TSQ630
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DBP3
PUF6
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SSZ1
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R108S
K129E
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R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
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T139A
GSP1−NAT
F58L
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K169I
H141E
Y157A
D79A
T34G
K101R
D79S
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T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
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R108Y
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R108G
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Y148I
K143Y
H141V
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Color Key
and Histogram
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1500
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
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GCN3
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AFG2_DAMP
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OYE2
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
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HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
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SRL2
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HSP60_DAMP
KRS1_DAMP
RPL21B
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RPL37A
RPL6B
RPL36A
RPP2B
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RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
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AZF1
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NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
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GDH1
ABF2
CST6
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AAT1
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RFM1
DBP3
PUF6
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SSZ1
K154M
R108S
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E115I
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E115A
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H141E
Y157A
D79A
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K101R
D79S
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Q147E
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CTER3XFLAG WT
NTER3XFLAG WT
R112A
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YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
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IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
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RBG1
ADH3
HHO1
OCA1
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MAE1
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HEF3
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RPL6B
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RTG3
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HMO1
RPS0B
RRP8
YOL098C
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VPS13
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IMH1
MTC1
OPI1
CYS4
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TDH1
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SCJ1
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YAR1
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CMR1
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THI20
IRC20
REH1
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Y157A
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T34G
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D79S
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G80A
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NTER3XFLAG WT
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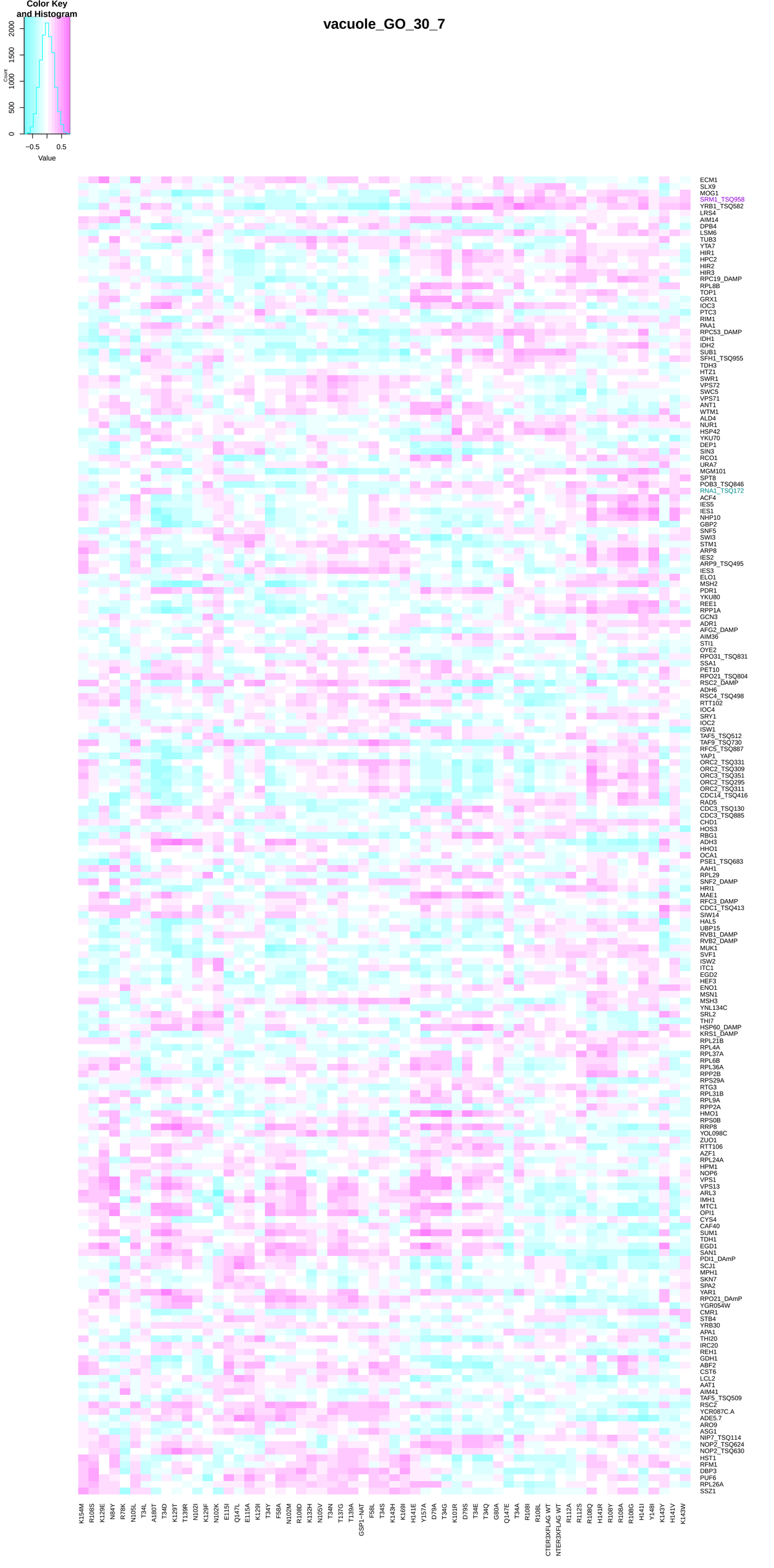
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
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MAE1
RFC3_DAMP
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RVB2_DAMP
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KRS1_DAMP
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RPP2A
HMO1
RPS0B
RRP8
YOL098C
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VPS13
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OPI1
CYS4
CAF40
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TDH1
EGD1
SAN1
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SCJ1
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SKN7
SPA2
YAR1
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YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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YCR087C.A
ADE5.7
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NOP2_TSQ624
NOP2_TSQ630
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DBP3
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R78K
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K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
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R108D
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GSP1−NAT
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Q147E
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NTER3XFLAG WT
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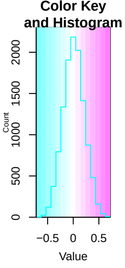

transcription from RNA polymerase II promoter_GO_30_5

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YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
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GCN3
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AFG2_DAMP
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OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
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MAE1
RFC3_DAMP
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HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
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ITC1
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HEF3
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MSH3
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SRL2
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RPS0B
RRP8
YOL098C
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AZF1
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NOP6
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VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
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PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
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YGR054W
CMR1
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YRB30
APA1
THI20
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ABF2
CST6
LCL2
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YCR087C.A
ADE5.7
ARO9
ASG1
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NOP2_TSQ630
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RFM1
DBP3
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Y157A
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NTER3XFLAG WT
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Y148I
K143Y
H141V
K143W

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1500
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YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
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HSP60_DAMP
KRS1_DAMP
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RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
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TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
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A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
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Count
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1000
1500
2000
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0.4
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vacuoles_GO_30_2
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SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
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SUB1
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TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
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RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
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R112S
R108Q
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R108Y
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Y148I
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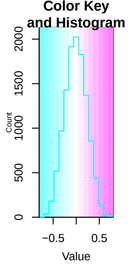
H141V
K143W



cell wall organization or biogenesis_GO_30_3

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1500
2000
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MOG1
SRM1_TSQ958
YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
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RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
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T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
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R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
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KRS1_DAMP
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RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
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TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
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NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
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R78K
N105L
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A180T
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T139R
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E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
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T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
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G80A
Q147E
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NTER3XFLAG WT
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R112S
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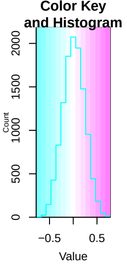
Golgi apparatus_GO_30_3



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YRB1_TSQ582
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DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
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RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
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KRS1_DAMP
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RPL6B
RPL36A
RPP2B
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RTG3
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RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
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RPL24A
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ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
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PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
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STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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AIM41
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RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
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RFM1
DBP3
PUF6
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SSZ1
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R78K
N105L
T34L
A180T
T34D
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N102I
K129F
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E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1-NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
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R112S
R108Q
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R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
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DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
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IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
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500
1000
1500
2000
2500
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0
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Value
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ECM1
SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
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1000
1500
2000
−0.6
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0.4
Value
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SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
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1500
2000
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YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
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Value
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SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
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SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
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K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
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R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
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1000
1500
2000
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Value
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SLX9
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SRM1_TSQ958
YRB1_TSQ582
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DPB4
LSM6
TUB3
YTA7
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
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RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
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1000
1500
2000
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Value
vacuole organization_GO_30_1
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SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
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1500
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Value
vacuole_GO_30_1
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SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
0
500
1000
2000
−0.5
0.5
Value
endomembrane system_GO_30_1
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SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
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SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
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R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
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Value
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SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
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500
1000
1500
2000
−0.5
0
0.5
Value
lipid metabolic process_GO_30_1
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SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
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ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
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MSH3
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SRL2
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KRS1_DAMP
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RPL4A
RPL37A
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RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
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RPL24A
HPM1
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VPS13
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SPA2
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GDH1
ABF2
CST6
LCL2
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ASG1
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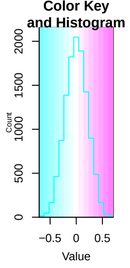

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DPB4
LSM6
TUB3
YTA7
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
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RTG3
RPL31B
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RPP2A
HMO1
RPS0B
RRP8
YOL098C
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RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
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SSZ1
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K129E
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R78K
N105L
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T34D
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N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
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GSP1−NAT
F58L
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K169I
H141E
Y157A
D79A
T34G
K101R
D79S
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T34Q
G80A
Q147E
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NTER3XFLAG WT
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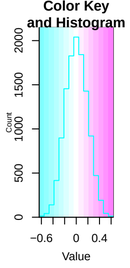

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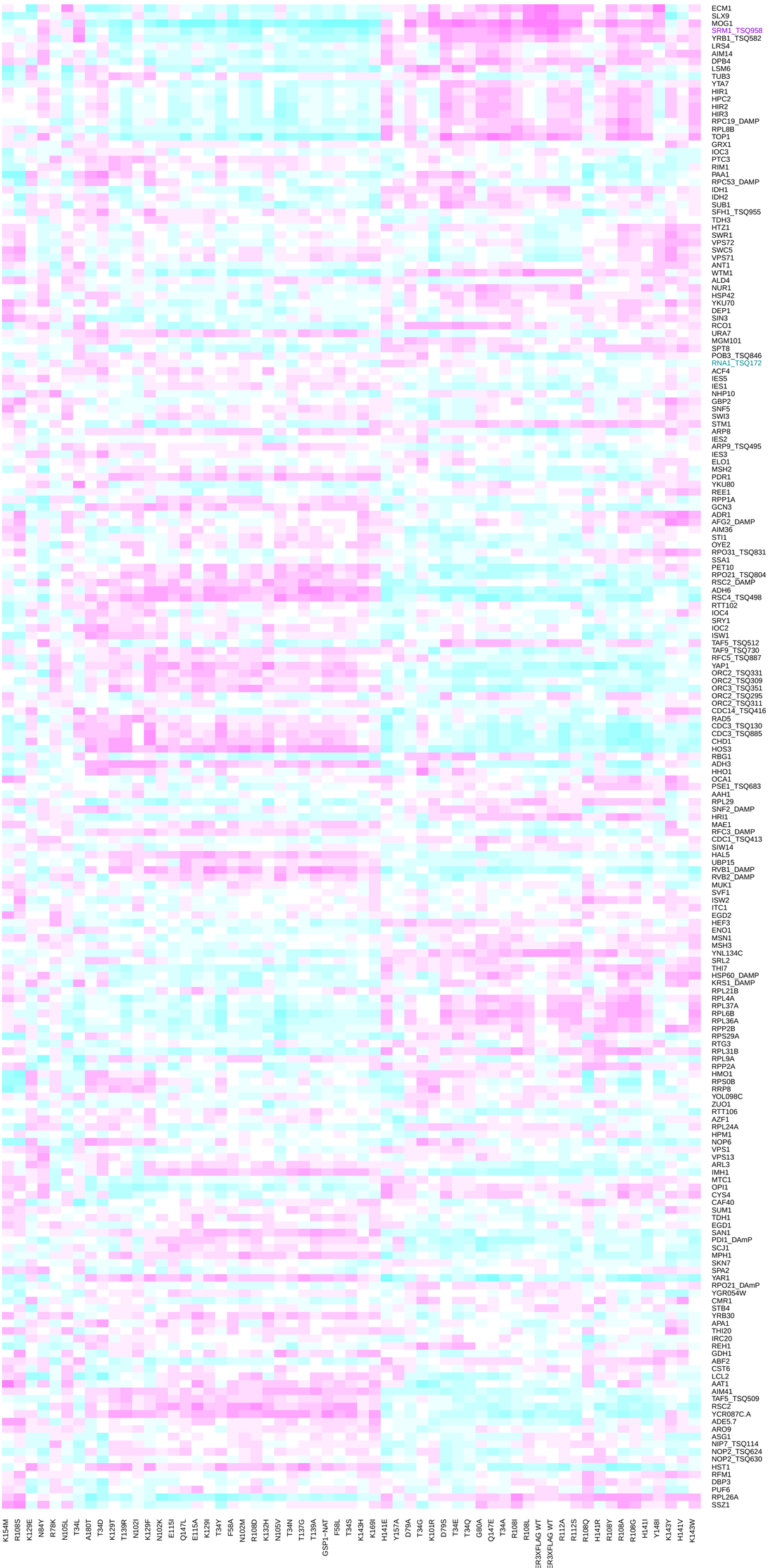

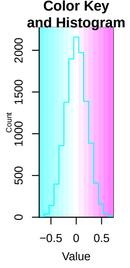

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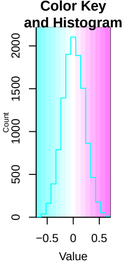

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SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
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IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
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HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
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KRS1_DAMP
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RPL37A
RPL6B
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RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
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RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
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STB4
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APA1
THI20
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REH1
GDH1
ABF2
CST6
LCL2
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ARO9
ASG1
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NOP2_TSQ624
NOP2_TSQ630
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DBP3
PUF6
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N102I
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N102K
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Q147L
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NTER3XFLAG WT
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TUB3
YTA7
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HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
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IDH2
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SFH1_TSQ955
TDH3
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VPS71
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ALD4
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YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
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IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
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ELO1
MSH2
PDR1
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GCN3
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OYE2
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
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SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
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ADH3
HHO1
OCA1
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MAE1
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RPL6B
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RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
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AZF1
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VPS13
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MTC1
OPI1
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CAF40
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MPH1
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Color Key
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TUB3
YTA7
HIR1
HPC2
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HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
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TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
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MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
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IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
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SSA1
PET10
RPO21_TSQ804
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ISW1
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TAF9_TSQ730
RFC5_TSQ887
YAP1
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ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
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RAD6
CDC3_TSQ130
CDC3_TSQ885
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RBG1
ADH3
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OCA1
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MAE1
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HEF3
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RPS0B
RRP8
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SPA2
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H141E
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D79A
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D79S
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G80A
Q147E
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NTER3XFLAG WT
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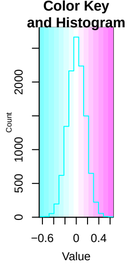
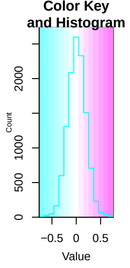


mitochondria and respiration_GO_30_2



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DPB4
LSM6
TUB3
YTA7
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
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IMH1
MTC1
OPI1
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CAF40
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TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
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CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
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DBP3
PUF6
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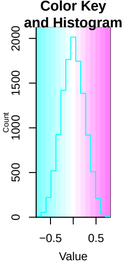
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DPB4
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TUB3
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GRX1
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PTC3
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SUB1
SFH1_TSQ955
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HTZ1
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DEP1
SIN3
RCO1
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MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
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GBP2
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ARP8
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ELO1
MSH2
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REE1
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SSA1
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RPO21_TSQ804
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ADH6
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SRY1
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ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
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CDC1_TSQ413
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CYS4
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TDH1
EGD1
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REH1
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ABF2
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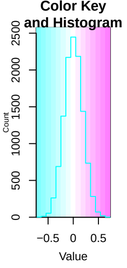

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LSM6
TUB3
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RPC19_DAMP
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TOP1
GRX1
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PTC3
RIM1
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SUB1
SFH1_TSQ955
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HTZ1
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ALD4
NUR1
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YKU70
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RCO1
URA7
MGM101
SPT8
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RNA1_TSQ172
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GBP2
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OYE2
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
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MAE1
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LSM6
TUB3
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HIR2
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RPL8B
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GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
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IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
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GCN3
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AFG2_DAMP
AIM36
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OYE2
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
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SRY1
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ISW1
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TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
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ADH3
HHO1
OCA1
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RRP8
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OPI1
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RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
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ALD4
NUR1
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YKU70
DEP1
SIN3
RCO1
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MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
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IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
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ELO1
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PDR1
YKU80
REE1
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GCN3
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OYE2
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SSA1
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ADH6
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SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
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ORC2_TSQ331
ORC2_TSQ309
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ORC2_TSQ295
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SPT8
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IES1
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STM1
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ARP9_TSQ495
IES3
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MPH1
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SPA2
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RPO21_DAmP
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ABF2
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NOP2_TSQ630
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PUF6
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SSZ1
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NTER3XFLAG WT
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TUB3
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GRX1
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PTC3
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VPS71
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ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
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GCN3
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AFG2_DAMP
AIM36
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OYE2
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
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SRY1
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ISW1
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TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
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ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
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MAE1
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RPP2A
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RPS0B
RRP8
YOL098C
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VPS13
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MTC1
OPI1
CYS4
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TDH1
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SCJ1
MPH1
SKN7
SPA2
YAR1
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STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
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RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
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NOP2_TSQ624
NOP2_TSQ630
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RFM1
DBP3
PUF6
RPL26A
SSZ1
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R108S
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N84Y
R78K
N105L
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T34D
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N102I
K129F
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E115I
Q147L
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K129I
T34Y
F58A
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K132H
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Y157A
D79A
T34G
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D79S
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T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
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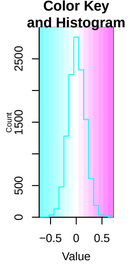
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TUB3
YTA7
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
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REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
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ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
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RAD5
CDC3_TSQ130
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MAE1
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RVB2_DAMP
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SVF1
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RPP2A
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RPS0B
RRP8
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MPH1
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SPA2
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REH1
GDH1
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CST6
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NOP2_TSQ630
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PUF6
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R78K
N105L
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T139R
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E115I
Q147L
E115A
K129I
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RPC19_DAMP
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TOP1
GRX1
IOC3
PTC3
RIM1
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SWC5
VPS71
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WTM1
ALD4
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YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
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ELO1
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GCN3
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AIM36
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SSA1
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ADH6
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SRY1
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TAF9_TSQ730
RFC5_TSQ887
YAP1
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ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
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OCA1
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MAE1
RFC3_DAMP
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RVB2_DAMP
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HEF3
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SKN7
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HIR3
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RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
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TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
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AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
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ADH6
RSC4_TSQ498
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SRY1
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ISW1
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TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
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OCA1
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ADE5.7
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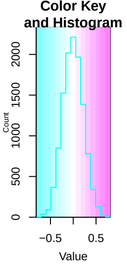

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YTA7
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HIR2
HIR3
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RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
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IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
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STI1
OYE2
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
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RVB2_DAMP
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REH1
GDH1
ABF2
CST6
LCL2
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YCR087C.A
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NOP2_TSQ630
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NTER3XFLAG WT
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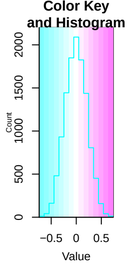

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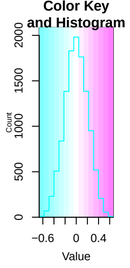

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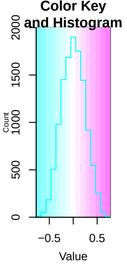

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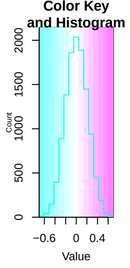

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YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
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ANT1
WTM1
ALD4
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DEP1
SIN3
RCO1
URA7
MGM101
SPT8
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IES1
NHP10
GBP2
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SWI3
STM1
ARP8
IES2
ARP9_TSQ495
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MSH2
PDR1
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GCN3
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OYE2
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
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ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
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MAE1
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ISW2
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HMO1
RPS0B
RRP8
YOL098C
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NOP6
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VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
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CMR1
STB4
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GDH1
ABF2
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RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
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NOP2_TSQ624
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HST1
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HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
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HTZ1
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GBP2
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GCN3
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OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
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ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
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ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
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RAD6
CDC3_TSQ130
CDC3_TSQ885
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RBG1
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MAE1
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RVB2_DAMP
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CAF40
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SCJ1
MPH1
SKN7
SPA2
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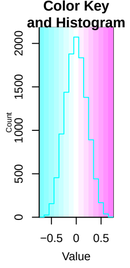

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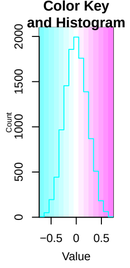

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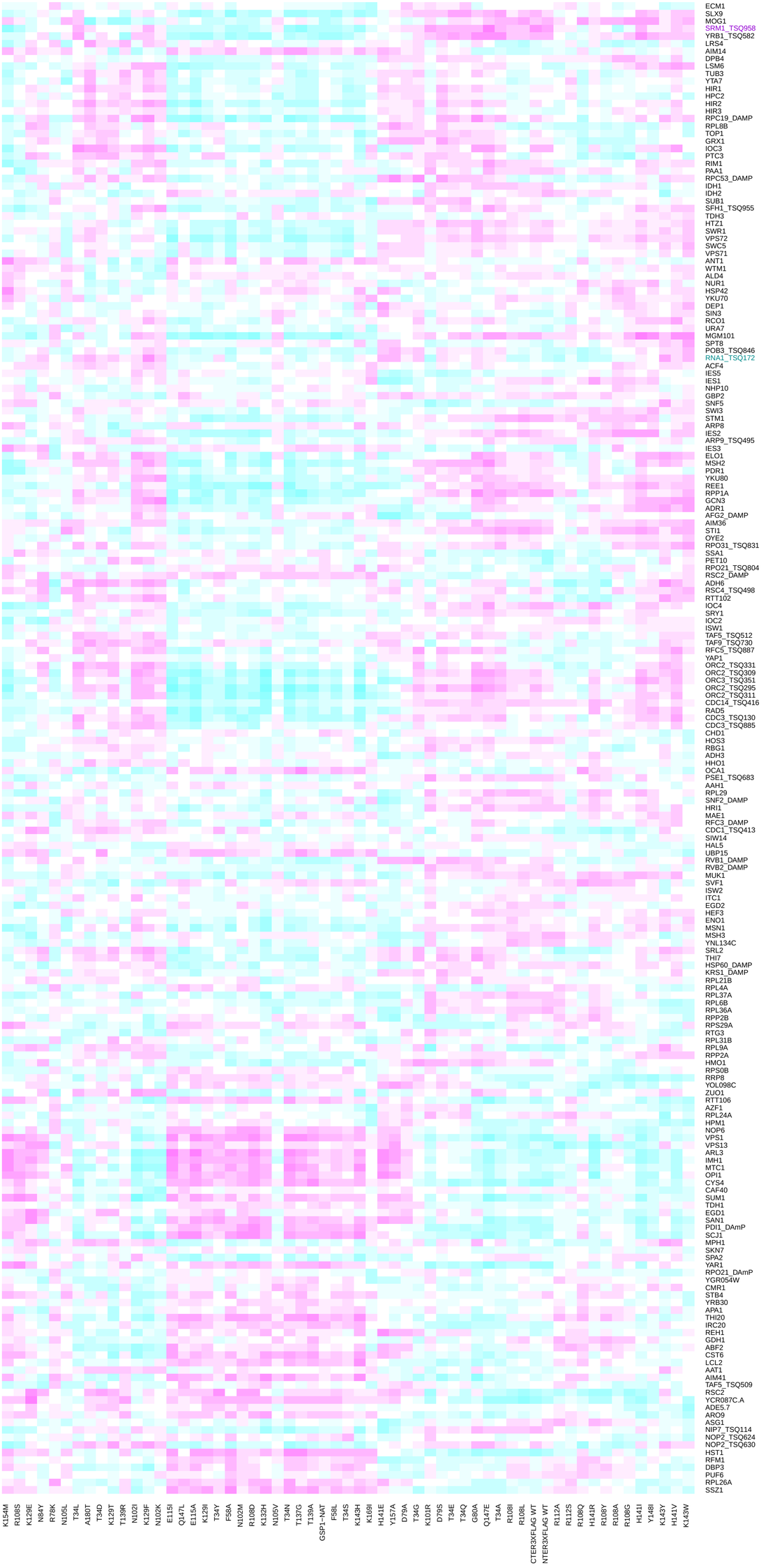

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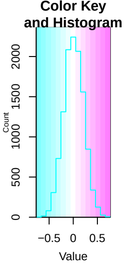

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PTC3
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PTC3
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ALD4
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RCO1
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SPT8
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IES1
NHP10
GBP2
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ARP9_TSQ495
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RFC5_TSQ887
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RPS29A
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HMO1
RPS0B
RRP8
YOL098C
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YTA7
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HPC2
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HIR3
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GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
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IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
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AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
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MSN1
MSH3
YNL134C
SRL2
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HSP60_DAMP
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RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
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RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
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NOP2_TSQ630
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RFM1
DBP3
PUF6
RPL26A
SSZ1
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R108S
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R78K
N105L
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T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
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H141E
Y157A
D79A
T34G
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D79S
T34E
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G80A
Q147E
T34A
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R108L
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NTER3XFLAG WT
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DPB4
LSM6
TUB3
YTA7
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
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GCN3
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OYE2
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SSA1
PET10
RPO21_TSQ804
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ADH6
RSC4_TSQ498
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SRY1
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ISW1
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TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
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RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
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HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
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UBP15
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RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
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THI7
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RTG3
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RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
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YCR087C.A
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ARO9
ASG1
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NOP2_TSQ630
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RFM1
DBP3
PUF6
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SSZ1
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R108S
K129E
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R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
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T139A
GSP1−NAT
F58L
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K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
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R112S
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Color Key
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HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
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OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
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RBG1
ADH3
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OCA1
PSE1_TSQ683
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MAE1
RFC3_DAMP
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UBP15
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RVB2_DAMP
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ITC1
EGD2
HEF3
ENO1
MSN1
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SRL2
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RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
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NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
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APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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TAF5_TSQ509
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NOP2_TSQ630
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DBP3
PUF6
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Y157A
D79A
T34G
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D79S
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G80A
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CTER3XFLAG WT
NTER3XFLAG WT
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Color Key
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DPB4
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TUB3
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
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IDH2
SUB1
SFH1_TSQ955
TDH3
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VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
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RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
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OYE2
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
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RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
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MAE1
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HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
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SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
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KRS1_DAMP
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RPL37A
RPL6B
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RPL9A
RPP2A
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RPS0B
RRP8
YOL098C
ZUO1
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NOP6
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VPS13
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IMH1
MTC1
OPI1
CYS4
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TDH1
EGD1
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PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
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THI20
IRC20
REH1
GDH1
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CST6
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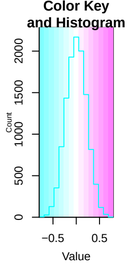
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GRX1
IOC3
PTC3
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SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
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ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
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RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
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AFG2_DAMP
AIM36
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OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
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ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
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ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
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HRI1
MAE1
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RVB2_DAMP
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SVF1
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ITC1
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HEF3
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MSN1
MSH3
YNL134C
SRL2
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OPI1
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SCJ1
MPH1
SKN7
SPA2
YAR1
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YGR054W
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STB4
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APA1
THI20
IRC20
REH1
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ABF2
CST6
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NOP2_TSQ630
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DBP3
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R78K
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Y157A
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T34A
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R108L
CTER3XFLAG WT
NTER3XFLAG WT
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R112S
R108Q
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H141V
K143W

Color Key
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HPC2
HIR2
HIR3
RPC19_DAMP
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GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
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IDH2
SUB1
SFH1_TSQ955
TDH3
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SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
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STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
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TAF9_TSQ730
RFC5_TSQ887
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ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
0
500
1000
1500
−0.5
0.5
Value
RNA processing_GO_30_2
ECM1
SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
0
500
1000
1500
2000
−0.5
0.5
Value
mitochondria and respiration_GO_30_15
ECM1
SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
0
500
1500
2500
−0.6
0
0.4
Value
cell cycle_GO_30_3
ECM1
SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
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500
1000
1500
−0.5
0.5
Value
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ECM1
SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
0
500
1000
1500
2000
−0.6
0
0.4
Value
ion transport_GO_30_2
ECM1
SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
Value
transmembrane transport_GO_30_4
ECM1
SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1-NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
0
500
1000
1500
2000
−0.6
0
0.4
Value
endomembrane system_GO_30_11
ECM1
SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
0
500
1000
1500
2000
−0.5
0.5
Value
mitochondrion_GO_30_13
ECM1
SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD5
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
0
500
1000
1500
−0.6
0
0.4
Value
cell cortex_GO_30_2
ECM1
SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
0
500
1000
1500
−0.5
0
0.5
Value
metabolic_GO_30_16
ECM1
SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
0
500
1000
1500
2000
−0.5
0.5
Value
vacuoles_GO_30_5
ECM1
SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
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YOL098C
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OPI1
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SCJ1
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Q147L
E115A
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N105V
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K143Y
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RPC19_DAMP
RPL8B
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PTC3
RIM1
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SFH1_TSQ955
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ALD4
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SIN3
RCO1
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SPT8
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HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
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IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
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SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
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GCN3
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OYE2
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ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
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RAD6
CDC3_TSQ130
CDC3_TSQ885
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ADH3
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OCA1
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AAH1
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RVB2_DAMP
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MSN1
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RPL6B
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RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
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AZF1
RPL24A
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NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
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TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
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STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
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ARO9
ASG1
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NOP2_TSQ630
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NTER3XFLAG WT
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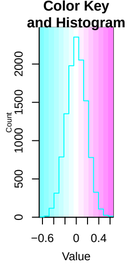
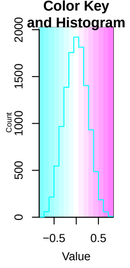


DNA replication



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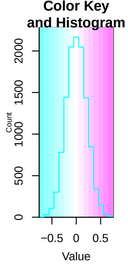

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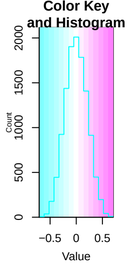

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DPB4
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TUB3
YTA7
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HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
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HTZ1
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VPS72
SWC5
VPS71
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WTM1
ALD4
NUR1
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YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
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GCN3
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SSA1
PET10
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SRY1
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TAF9_TSQ730
RFC5_TSQ887
YAP1
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ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
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RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
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ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
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SVF1
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HEF3
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MSN1
MSH3
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RPL31B
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HMO1
RPS0B
RRP8
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MTC1
OPI1
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SCJ1
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SKN7
SPA2
YAR1
RPO21_DAmP
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GDH1
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CST6
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NOP2_TSQ630
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DBP3
PUF6
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K101R
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G80A
Q147E
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R108I
R108L
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NTER3XFLAG WT
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R108Y
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Y148I
K143Y
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DPB4
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TUB3
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RPC19_DAMP
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TOP1
GRX1
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PTC3
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VPS72
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YKU70
DEP1
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HRI1
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RFC3_DAMP
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HEF3
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YNL134C
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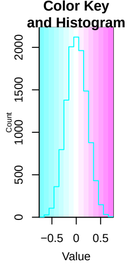
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PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
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RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
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1000
1500
2000
−0.5
0
0.5
Value
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SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
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HSP60_DAMP
KRS1_DAMP
RPL21B
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RPL37A
RPL6B
RPL36A
RPP2B
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RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
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AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
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500
1000
1500
2000
2500
−0.5
0.5
Value
transmembrane transporter activity_GO_30_4
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SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD5
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
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E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
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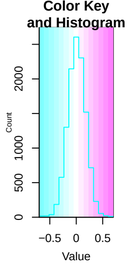

vacuoles_GO_30_3

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MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
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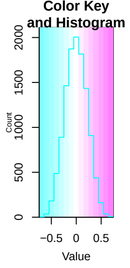
Y148I
K143Y
H141V
K143W



cell cycle_GO_30_10

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SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
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TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
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NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
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SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
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F58A
N102M
R108D
K132H
N105V
T34N
T137G
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GSP1−NAT
F58L
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K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
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R108L
CTER3XFLAG WT
NTER3XFLAG WT
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Y148I
K143Y
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Color Key
and Histogram
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SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
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HRI1
MAE1
RFC3_DAMP
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UBP15
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RVB2_DAMP
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EGD2
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HIR3
RPC19_DAMP
RPL8B
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GRX1
IOC3
PTC3
RIM1
PAA1
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TDH3
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VPS71
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ALD4
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YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
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IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
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PDR1
YKU80
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OYE2
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ADH6
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ISW1
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ORC2_TSQ309
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RAD6
CDC3_TSQ130
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GDH1
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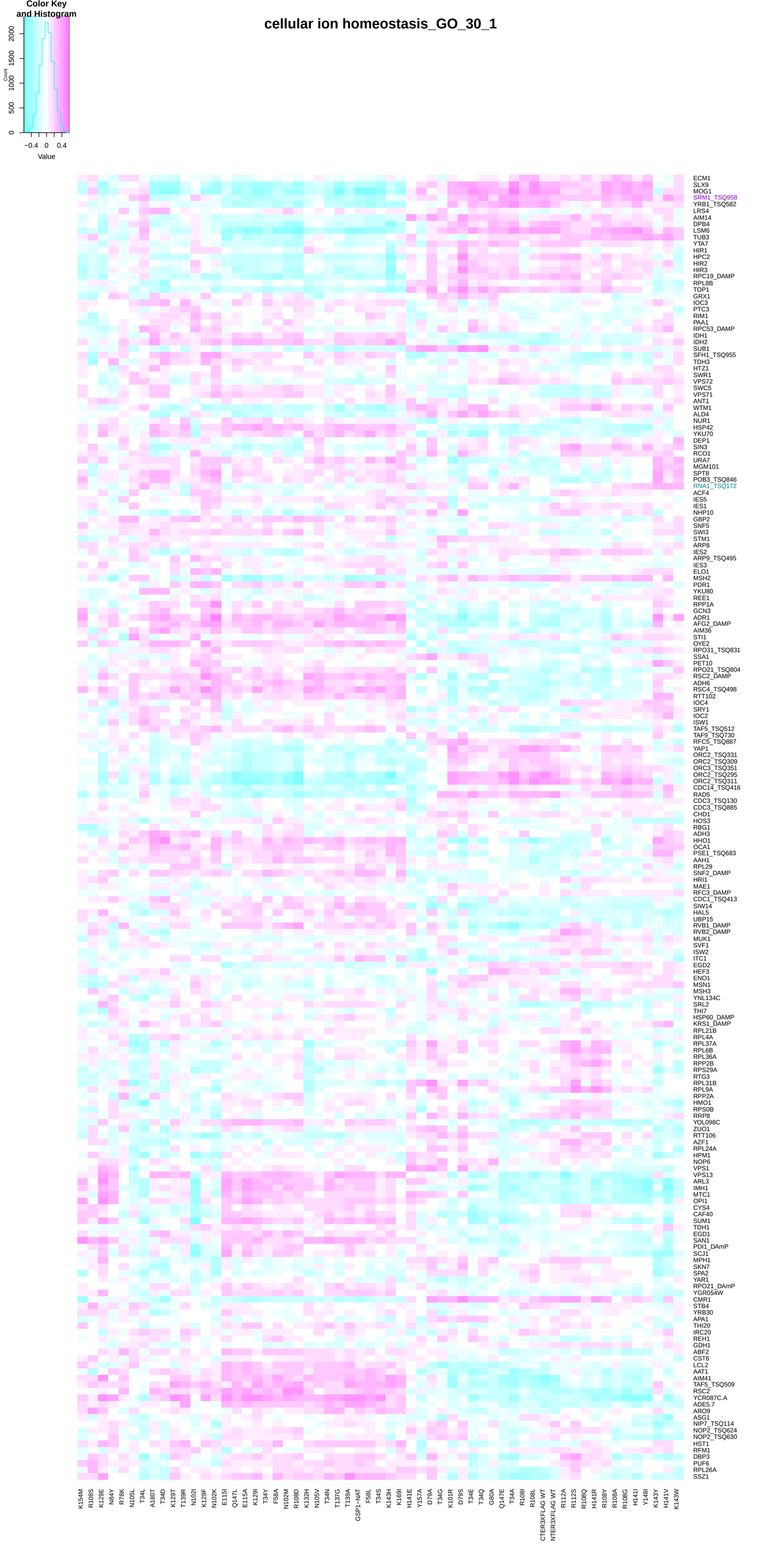
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RPC19_DAMP
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TOP1
GRX1
IOC3
PTC3
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SUB1
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TDH3
HTZ1
SWR1
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SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
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YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
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RNA1_TSQ172
ACF4
IES5
IES1
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GBP2
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STM1
ARP8
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ARP9_TSQ495
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ELO1
MSH2
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SSA1
PET10
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ADH6
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SRY1
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ISW1
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TAF9_TSQ730
RFC5_TSQ887
YAP1
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ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
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ADH3
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OCA1
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HIR3
RPC19_DAMP
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TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
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TDH3
HTZ1
SWR1
VPS72
SWC5
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ALD4
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DEP1
SIN3
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URA7
MGM101
SPT8
POB3_TSQ846
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IES1
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GBP2
SNF5
SWI3
STM1
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ARP9_TSQ495
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ELO1
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SSA1
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RPO21_TSQ804
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SRY1
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ISW1
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TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
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ADH3
HHO1
OCA1
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MAE1
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GDH1
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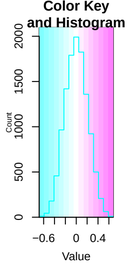

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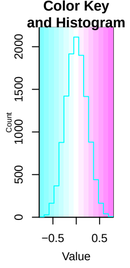

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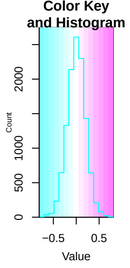

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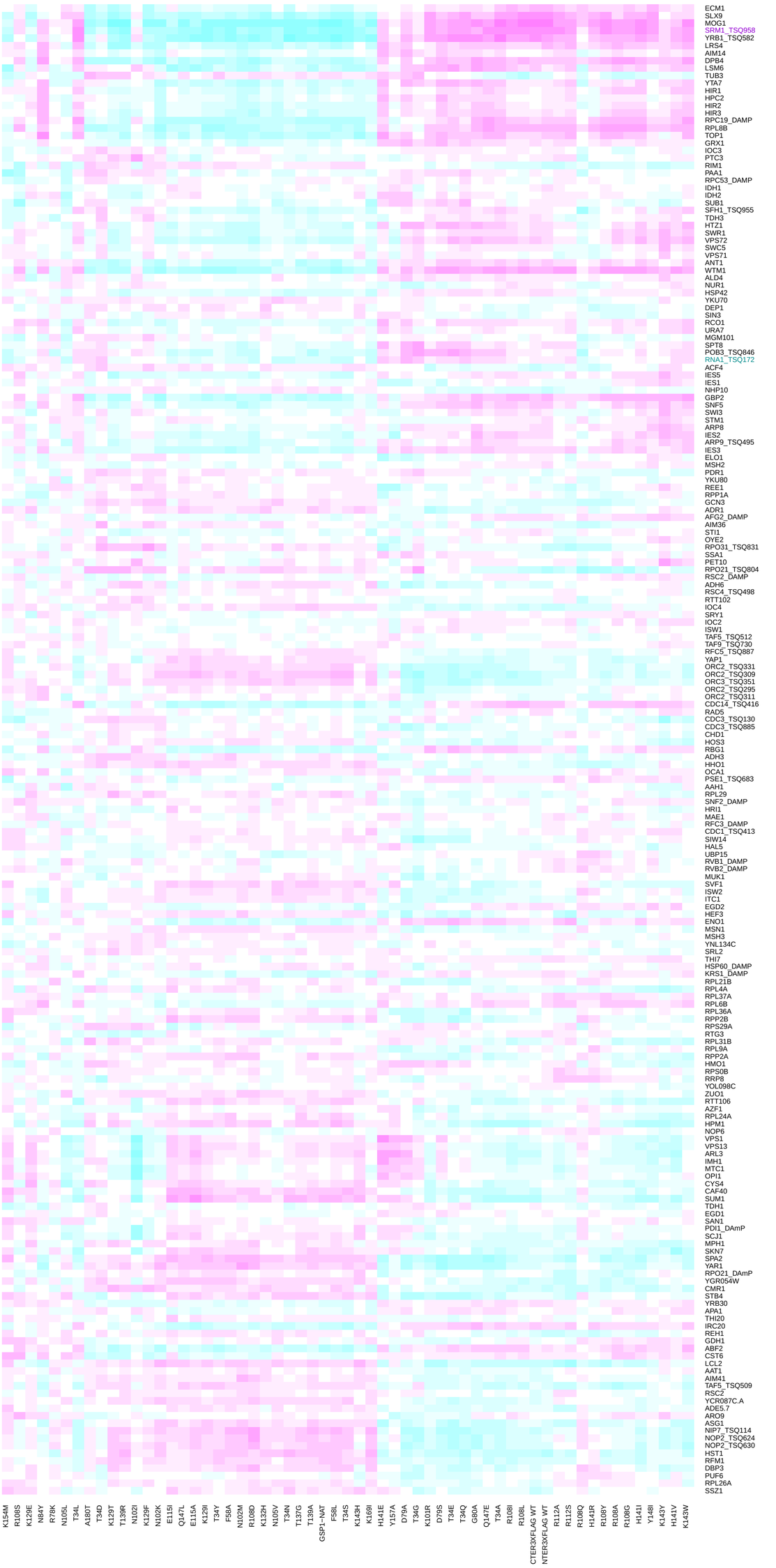

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HPC2
HIR2
HIR3
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TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
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IDH2
SUB1
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HTZ1
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ALD4
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DEP1
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MGM101
SPT8
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RNA1_TSQ172
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GBP2
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ARP9_TSQ495
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SRY1
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ORC2_TSQ309
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ORC2_TSQ311
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RPP2A
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RPS0B
RRP8
YOL098C
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OPI1
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SKN7
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DBP3
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R78K
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PTC3
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SPT8
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IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
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ARP9_TSQ495
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SSA1
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RPO21_TSQ804
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RFC5_TSQ887
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ORC2_TSQ311
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CDC3_TSQ130
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MAE1
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RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
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R78K
N105L
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A180T
T34D
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T139R
N102I
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N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
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K132H
N105V
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K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
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R112S
R108Q
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R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
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KRS1_DAMP
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RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
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TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
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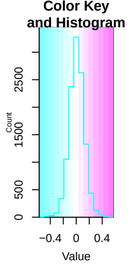
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W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Value

metabolic

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SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
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RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
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R78K
N105L
T34L
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T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
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F58A
N102M
R108D
K132H
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T34N
T137G
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GSP1−NAT
F58L
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K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
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G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
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R108Y
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H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
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YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
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HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
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RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
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RFM1
DBP3
PUF6
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N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
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T34N
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T139A
GSP1−NAT
F58L
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K169I
H141E
Y157A
D79A
T34G
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D79S
T34E
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G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
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R108Y
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R108G
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Y148I
K143Y
H141V
K143W

Color Key
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DPB4
LSM6
TUB3
YTA7
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
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RPL37A
RPL6B
RPL36A
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RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
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TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
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SSZ1
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R78K
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T139R
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K129F
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E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
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N105V
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T139A
GSP1−NAT
F58L
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K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
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K143W

Color Key
and Histogram
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YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
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RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
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RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
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TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
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1500
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Value
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SRM1_TSQ958
YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
Value
chromatin_GO_30_7
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SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1~NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
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500
1000
1500
2000
−0.6
0
0.4
Value
mitochondria and respiration_GO_30_9
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SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD5
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Golgi and ER_GO_30_11
Color Key
and Histogram
Count
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500
1000
1500
2000
−0.5
0.5
Value
ECM1
SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
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1000
1500
2000
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0
0.4
Value
metabolic_GO_30_6
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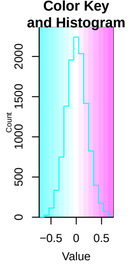
SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W



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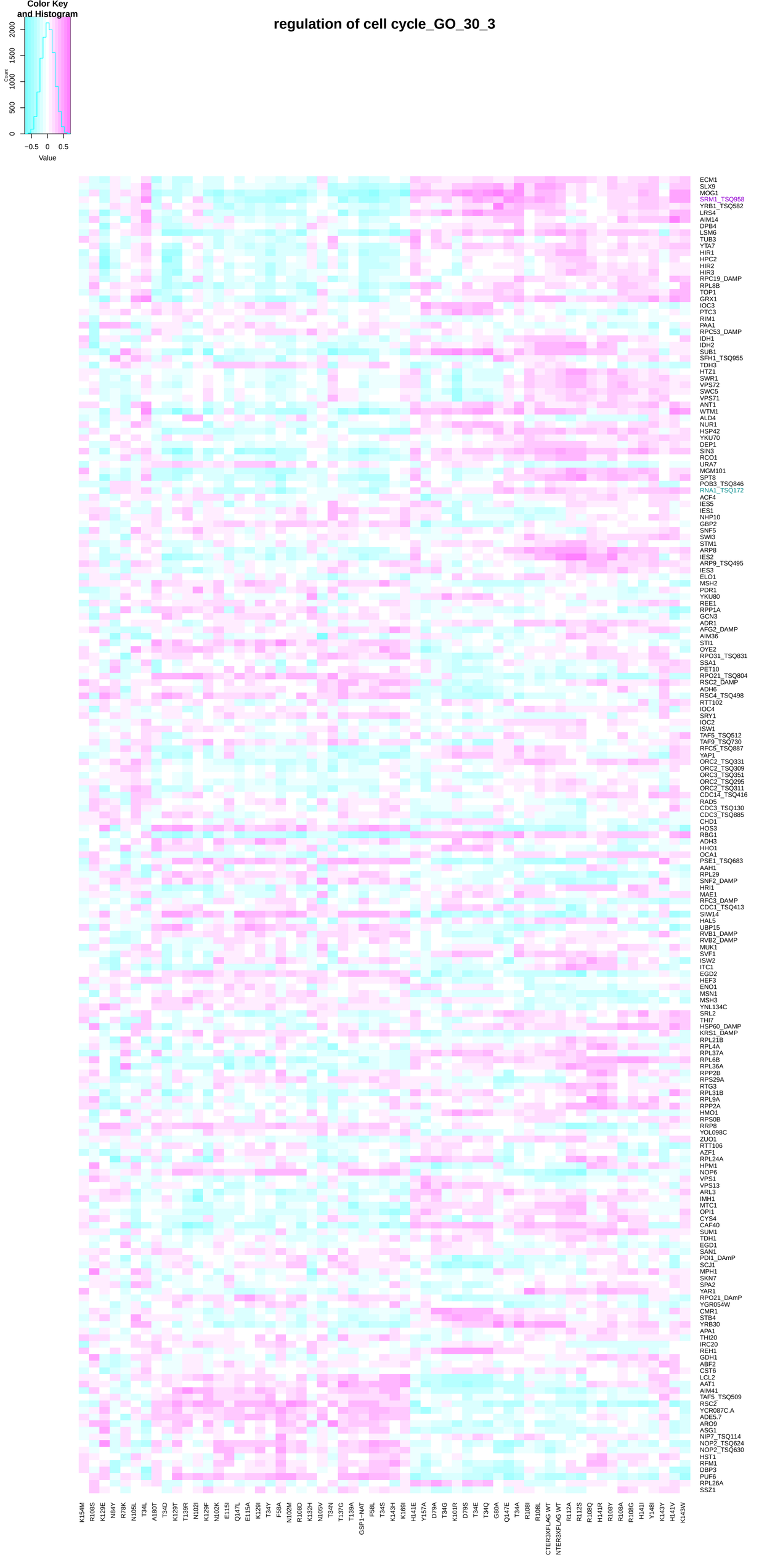
Color Key
and Histogram
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1500
2000
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SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
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IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
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IES3
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OYE2
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TAF9_TSQ730
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MAE1
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RTG3
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RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
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NOP6
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VPS13
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IMH1
MTC1
OPI1
CYS4
CAF40
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TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
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IRC20
REH1
GDH1
ABF2
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ARO9
ASG1
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PUF6
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K129T
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N102K
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T34Y
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D79S
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Q147E
T34A
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NTER3XFLAG WT
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R108Q
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R108Y
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Y148I
K143Y
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K143W

Color Key
and Histogram
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500
1000
1500
2000
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0.4
Value
regulation of DNA metabolic process
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SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
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OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
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IOC4
SRY1
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TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
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RAD5
CDC3_TSQ130
CDC3_TSQ885
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ADH3
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OCA1
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HEF3
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MSN1
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OPI1
CYS4
CAF40
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R112A
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budding_GO_30_1
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Value
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SLX9
MOG1
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AIM14
DPB4
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TUB3
YTA7
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HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
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SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
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HRI1
MAE1
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UBP15
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RVB2_DAMP
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HEF3
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RPL6B
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VPS13
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MTC1
OPI1
CYS4
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REH1
GDH1
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ADE5.7
ARO9
ASG1
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NOP2_TSQ630
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PUF6
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NTER3XFLAG WT
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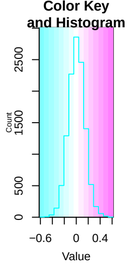
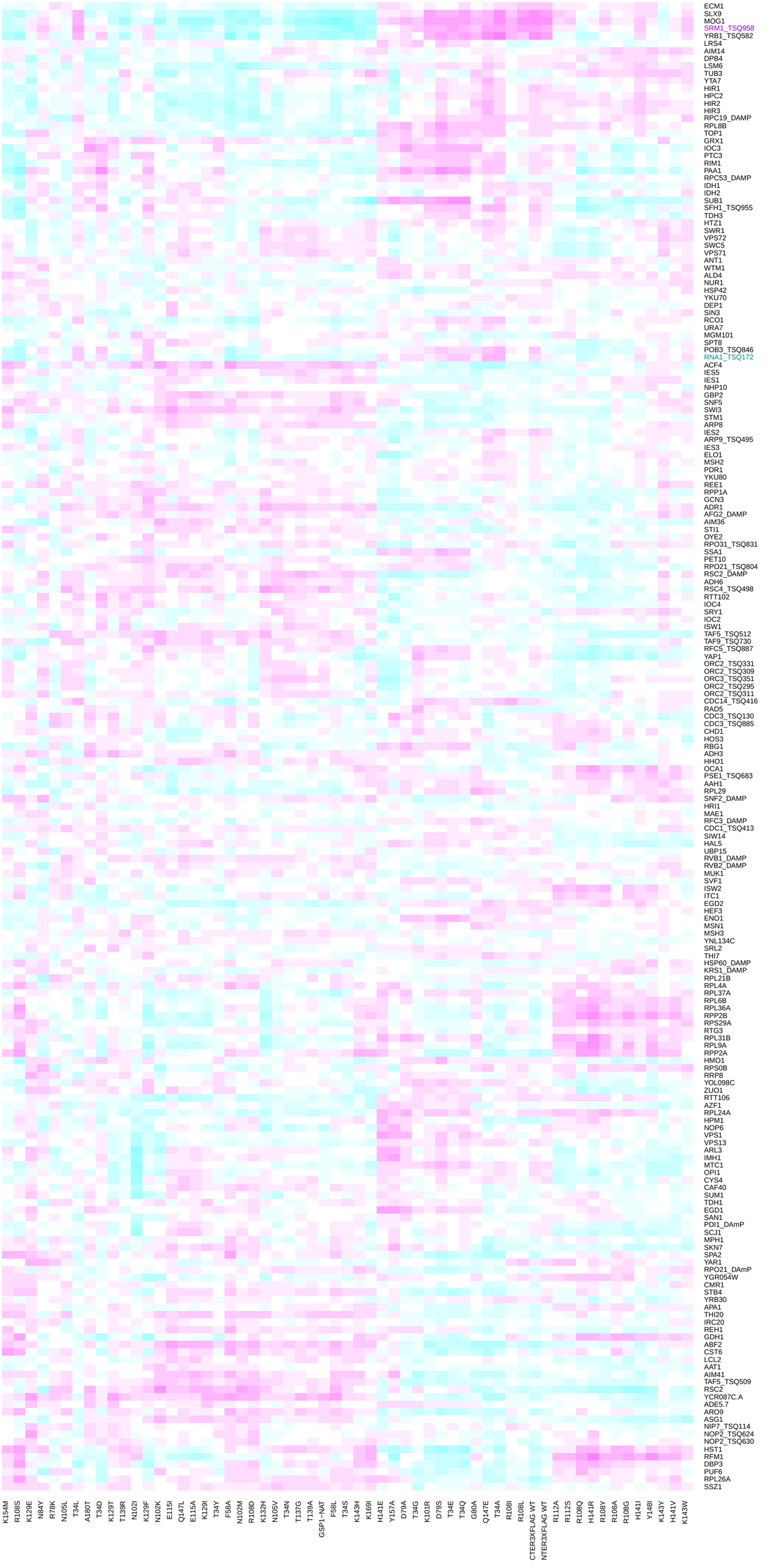
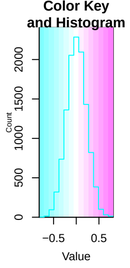


cellular bud





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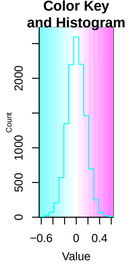

cytoskeleton and microtubules_GO_30_2

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and Histogram
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Value
cytoskeleton and microtubules
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YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
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SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
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RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
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KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
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YCR087C.A
ADE5.7
ARO9
ASG1
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NOP2_TSQ630
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RFM1
DBP3
PUF6
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K129F
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E115I
Q147L
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K129I
T34Y
F58A
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R108D
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N105V
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T139A
GSP1-NAT
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Y157A
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T34G
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NTER3XFLAG WT
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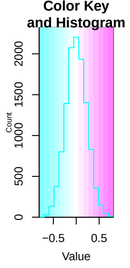
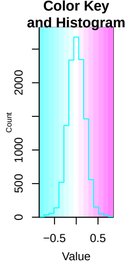


microtubule organizing center



mitotic cell cycle_GO_30_2

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YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
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TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
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HAL5
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RPP2A
HMO1
RPS0B
RRP8
YOL098C
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NOP6
VPS1
VPS13
ARL3
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MTC1
OPI1
CYS4
CAF40
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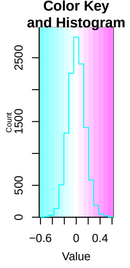

site of polarized growth

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YRB1_TSQ582
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DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
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RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
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R108S
K129E
N84Y
R78K
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K132H
N105V
T34N
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T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
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R108L
CTER3XFLAG WT
NTER3XFLAG WT
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R112S
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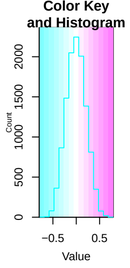
H141V
K143W



budding_GO_30_9

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MOG1
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
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RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
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HST1
RFM1
DBP3
PUF6
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SSZ1
K154M
R108S
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R78K
N105L
T34L
A180T
T34D
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T139R
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K129F
N102K
E115I
Q147L
E115A
K129I
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F58A
N102M
R108D
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T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
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T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
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H141V
K143W

Color Key
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
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HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
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KRS1_DAMP
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RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
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RPL24A
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NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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AIM41
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RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
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SSZ1
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R78K
N105L
T34L
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Q147L
E115A
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R108D
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GSP1−NAT
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H141E
Y157A
D79A
T34G
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G80A
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NTER3XFLAG WT
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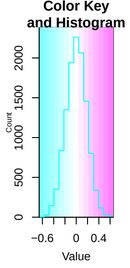
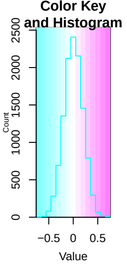


DNA replication_GO_30_1



meiotic cell cycle_GO_30_1

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YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
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GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
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RPL37A
RPL6B
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RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
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NOP6
VPS1
VPS13
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MTC1
OPI1
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SCJ1
MPH1
SKN7
SPA2
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REH1
GDH1
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NOP2_TSQ624
NOP2_TSQ630
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RFM1
DBP3
PUF6
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K129E
N84Y
R78K
N105L
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T34D
K129T
T139R
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K129F
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E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
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T139A
GSP1−NAT
F58L
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H141E
Y157A
D79A
T34G
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D79S
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G80A
Q147E
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NTER3XFLAG WT
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R108G
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Y148I
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H141V
K143W

Color Key
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
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OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
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RBG1
ADH3
HHO1
OCA1
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AAH1
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HEF3
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MSN1
MSH3
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SRL2
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RPP2A
HMO1
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RRP8
YOL098C
ZUO1
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AZF1
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HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
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R78K
N105L
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T34D
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R108D
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GSP1−NAT
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K169I
H141E
Y157A
D79A
T34G
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D79S
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G80A
Q147E
T34A
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CTER3XFLAG WT
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H141V
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YRB1_TSQ582
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SKN7
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TUB3
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PTC3
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YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
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RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
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ELO1
MSH2
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GCN3
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OYE2
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SSA1
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ISW1
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RFC5_TSQ887
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ORC2_TSQ309
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ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD5
CDC3_TSQ130
CDC3_TSQ885
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OCA1
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AAH1
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MAE1
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RPS0B
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YOL098C
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OPI1
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SCJ1
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SPA2
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IRC20
REH1
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ABF2
CST6
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ADE5.7
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ASG1
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NOP2_TSQ630
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PUF6
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SSZ1
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K129I
T34Y
F58A
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N105V
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F58L
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K169I
H141E
Y157A
D79A
T34G
K101R
D79S
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T34Q
G80A
Q147E
T34A
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R108L
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NTER3XFLAG WT
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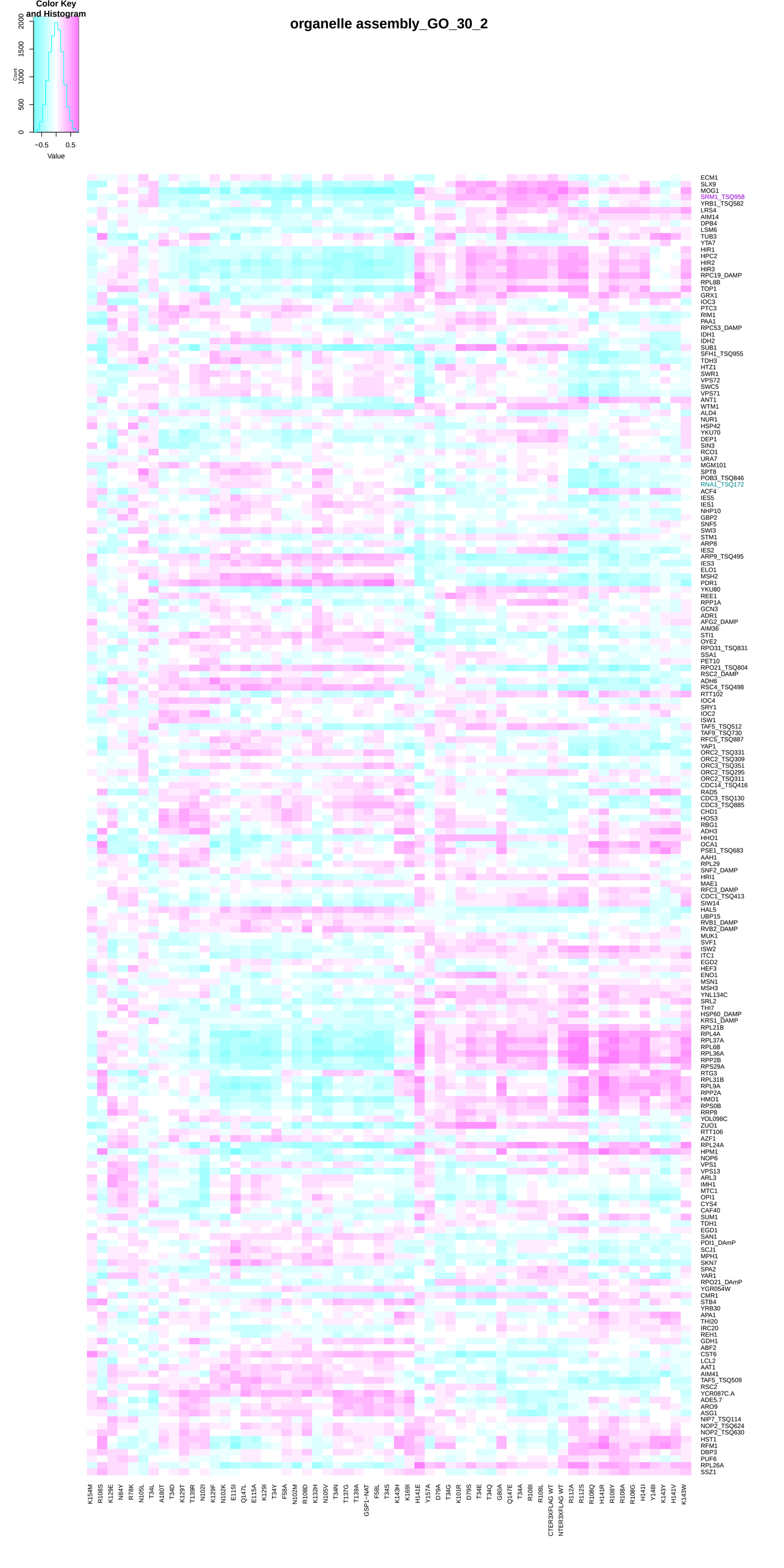
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TUB3
YTA7
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
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SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
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REE1
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GCN3
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OYE2
RPO31_TSQ831
SSA1
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ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
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ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
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ADH3
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MAE1
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SVF1
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ITC1
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CYS4
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PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
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RPO21_DAmP
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ABF2
CST6
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E115I
Q147L
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VPS71
ANT1
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ALD4
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YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
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IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
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ARP9_TSQ495
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GCN3
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TAF9_TSQ730
RFC5_TSQ887
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ORC3_TSQ351
ORC2_TSQ295
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CDC14_TSQ416
RAD6
CDC3_TSQ130
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PDI1_DAmP
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SKN7
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DPB4
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TUB3
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GRX1
IOC3
PTC3
RIM1
PAA1
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VPS72
SWC5
VPS71
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WTM1
ALD4
NUR1
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YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
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RNA1_TSQ172
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IES1
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GBP2
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SWI3
STM1
ARP8
IES2
ARP9_TSQ495
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ELO1
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PDR1
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GCN3
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AFG2_DAMP
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OYE2
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SSA1
PET10
RPO21_TSQ804
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ISW1
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TAF9_TSQ730
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YAP1
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ORC2_TSQ295
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RAD6
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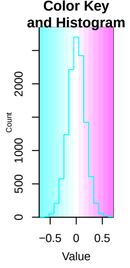

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HPC2
HIR2
HIR3
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TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
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VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
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YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
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GCN3
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AFG2_DAMP
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OYE2
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SSA1
PET10
RPO21_TSQ804
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ADH6
RSC4_TSQ498
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IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
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SRM1_TSQ958
YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
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1500
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Value
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MOG1
SRM1_TSQ958
YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
0
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2500
−0.5
0.5
Value
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SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
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MOG1
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YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
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K129E
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R78K
N105L
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K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
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T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
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R112S
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H141V
K143W

Color Key
and Histogram
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SRM1_TSQ958
YRB1_TSQ582
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DPB4
LSM6
TUB3
YTA7
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
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IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
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RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
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RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
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RFM1
DBP3
PUF6
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SSZ1
K154M
R108S
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N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
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K169I
H141E
Y157A
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T34G
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D79S
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G80A
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DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
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AIM36
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OYE2
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD5
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
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HAL5
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RVB2_DAMP
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RPL6B
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RRP8
YOL098C
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RPL24A
HPM1
NOP6
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VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
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TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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R108D
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GSP1−NAT
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H141E
Y157A
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CTER3XFLAG WT
NTER3XFLAG WT
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Color Key
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TUB3
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HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
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GCN3
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OYE2
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
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SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
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HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
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UBP15
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RVB2_DAMP
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SVF1
ISW2
ITC1
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HEF3
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SRL2
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NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
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TDH1
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SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
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AIM41
TAF5_TSQ509
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YCR087C.A
ADE5.7
ARO9
ASG1
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K132H
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T139A
GSP1−NAT
F58L
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K169I
H141E
Y157A
D79A
T34G
K101R
D79S
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G80A
Q147E
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CTER3XFLAG WT
NTER3XFLAG WT
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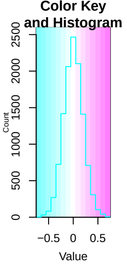

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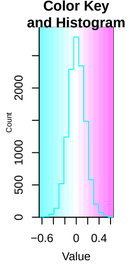
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NTER3XFLAG WT
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R112S
R108Q
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R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W
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SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
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RNA1_TSQ172
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IES1
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GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
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RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
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ADH6
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ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
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ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
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MAE1
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RVB2_DAMP
MUK1
SVF1
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HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
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KRS1_DAMP
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RPL37A
RPL6B
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RPP2A
HMO1
RPS0B
RRP8
YOL098C
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AZF1
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VPS13
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IMH1
MTC1
OPI1
CYS4
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TDH1
EGD1
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SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
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STB4
YRB30
APA1
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REH1
GDH1
ABF2
CST6
LCL2
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AIM41
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RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1

Color Key
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Count
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MOG1
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YRB1_TSQ582
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AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
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SWR1
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SWC5
VPS71
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WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
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GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
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ELO1
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PDR1
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REE1
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GCN3
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AFG2_DAMP
AIM36
STI1
OYE2
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SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
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SRY1
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ISW1
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TAF9_TSQ730
RFC5_TSQ887
YAP1
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ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
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ADH3
HHO1
OCA1
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AAH1
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SVF1
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ITC1
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HEF3
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MTC1
OPI1
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SPA2
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RFM1
DBP3
PUF6
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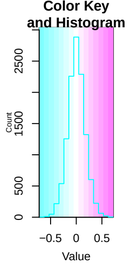
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TOP1
GRX1
IOC3
PTC3
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PAA1
RPC53_DAMP
IDH1
IDH2
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SFH1_TSQ955
TDH3
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SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
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IES1
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GBP2
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GCN3
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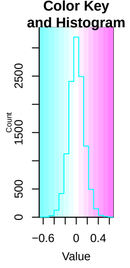
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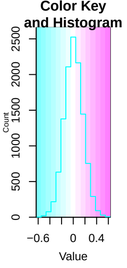
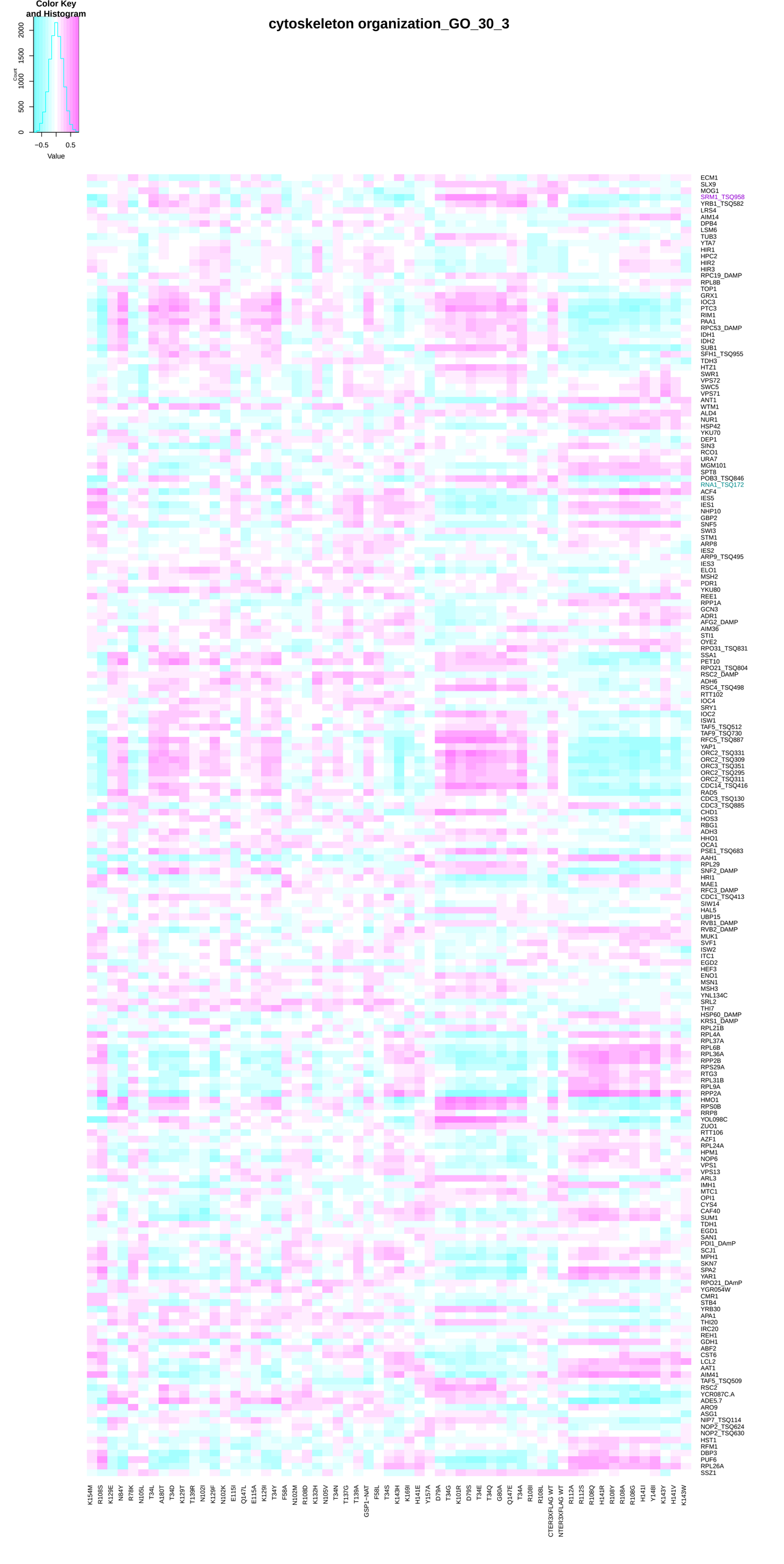
Golgi and ER_GO_30_2

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SRY1
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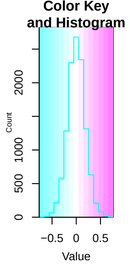

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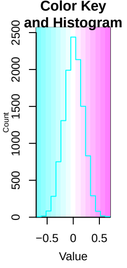
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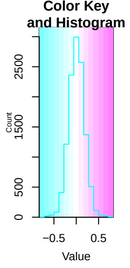

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T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
0
1000
2000
3000
−0.5
0
0.5
Value
lipids
ECM1
SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
0
500
1000
1500
2000
−0.5
0
0.5
Value
lipids_GO_30_4
ECM1
SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
0
500
1000
1500
2000
−0.6
0
0.4
Value
organelle inheritance
ECM1
SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
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500
1000
1500
2000
−0.5
0
0.5
Value
organelle inheritance_GO_30_1
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SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W

Color Key
and Histogram
Count
0
500
1000
1500
2000
−0.5
0.5
Value
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ECM1
SLX9
MOG1
SRM1_TSQ958
YRB1_TSQ582
LRS4
AIM14
DPB4
LSM6
TUB3
YTA7
HIR1
HPC2
HIR2
HIR3
RPC19_DAMP
RPL8B
TOP1
GRX1
IOC3
PTC3
RIM1
PAA1
RPC53_DAMP
IDH1
IDH2
SUB1
SFH1_TSQ955
TDH3
HTZ1
SWR1
VPS72
SWC5
VPS71
ANT1
WTM1
ALD4
NUR1
HSP42
YKU70
DEP1
SIN3
RCO1
URA7
MGM101
SPT8
POB3_TSQ846
RNA1_TSQ172
ACF4
IES5
IES1
NHP10
GBP2
SNF5
SWI3
STM1
ARP8
IES2
ARP9_TSQ495
IES3
ELO1
MSH2
PDR1
YKU80
REE1
RPP1A
GCN3
ADR1
AFG2_DAMP
AIM36
STI1
OYE2
RPO31_TSQ831
SSA1
PET10
RPO21_TSQ804
RSC2_DAMP
ADH6
RSC4_TSQ498
RTT102
IOC4
SRY1
IOC2
ISW1
TAF5_TSQ512
TAF9_TSQ730
RFC5_TSQ887
YAP1
ORC2_TSQ331
ORC2_TSQ309
ORC3_TSQ351
ORC2_TSQ295
ORC2_TSQ311
CDC14_TSQ416
RAD6
CDC3_TSQ130
CDC3_TSQ885
CHD1
HOS3
RBG1
ADH3
HHO1
OCA1
PSE1_TSQ683
AAH1
RPL29
SNF2_DAMP
HRI1
MAE1
RFC3_DAMP
CDC1_TSQ413
SIW14
HAL5
UBP15
RVB1_DAMP
RVB2_DAMP
MUK1
SVF1
ISW2
ITC1
EGD2
HEF3
ENO1
MSN1
MSH3
YNL134C
SRL2
THI7
HSP60_DAMP
KRS1_DAMP
RPL21B
RPL4A
RPL37A
RPL6B
RPL36A
RPP2B
RPS29A
RTG3
RPL31B
RPL9A
RPP2A
HMO1
RPS0B
RRP8
YOL098C
ZUO1
RTT106
AZF1
RPL24A
HPM1
NOP6
VPS1
VPS13
ARL3
IMH1
MTC1
OPI1
CYS4
CAF40
SUM1
TDH1
EGD1
SAN1
PDI1_DAmP
SCJ1
MPH1
SKN7
SPA2
YAR1
RPO21_DAmP
YGR054W
CMR1
STB4
YRB30
APA1
THI20
IRC20
REH1
GDH1
ABF2
CST6
LCL2
AAT1
AIM41
TAF5_TSQ509
RSC2
YCR087C.A
ADE5.7
ARO9
ASG1
NIP7_TSQ114
NOP2_TSQ624
NOP2_TSQ630
HST1
RFM1
DBP3
PUF6
RPL26A
SSZ1
K154M
R108S
K129E
N84Y
R78K
N105L
T34L
A180T
T34D
K129T
T139R
N102I
K129F
N102K
E115I
Q147L
E115A
K129I
T34Y
F58A
N102M
R108D
K132H
N105V
T34N
T137G
T139A
GSP1−NAT
F58L
T34S
K143H
K169I
H141E
Y157A
D79A
T34G
K101R
D79S
T34E
T34Q
G80A
Q147E
T34A
R108I
R108L
CTER3XFLAG WT
NTER3XFLAG WT
R112A
R112S
R108Q
H141R
R108Y
R108A
R108G
H141I
Y148I
K143Y
H141V
K143W