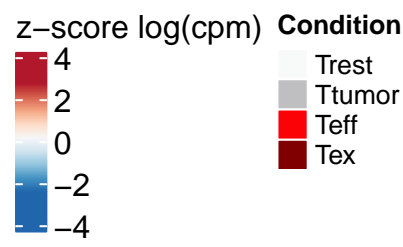
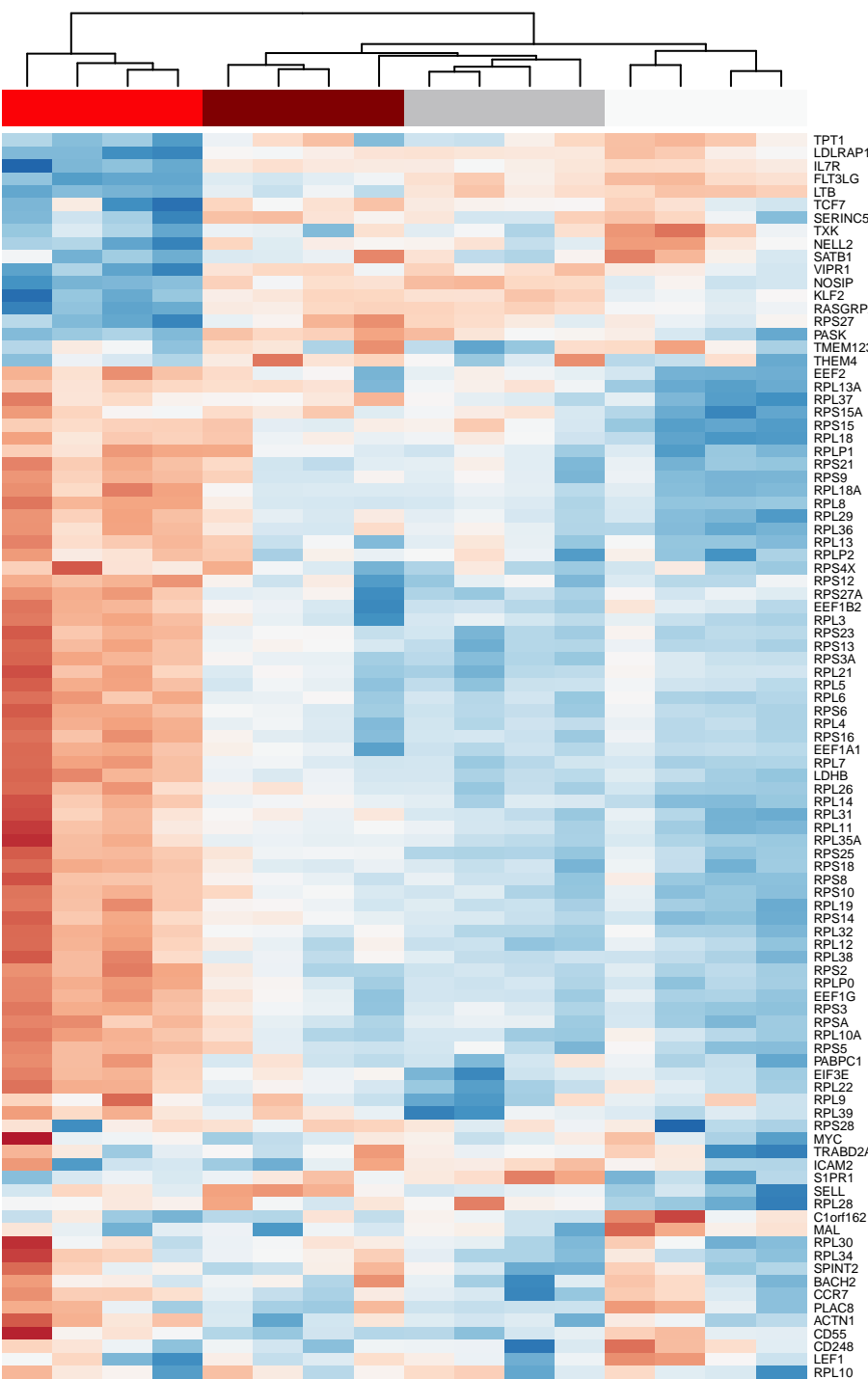
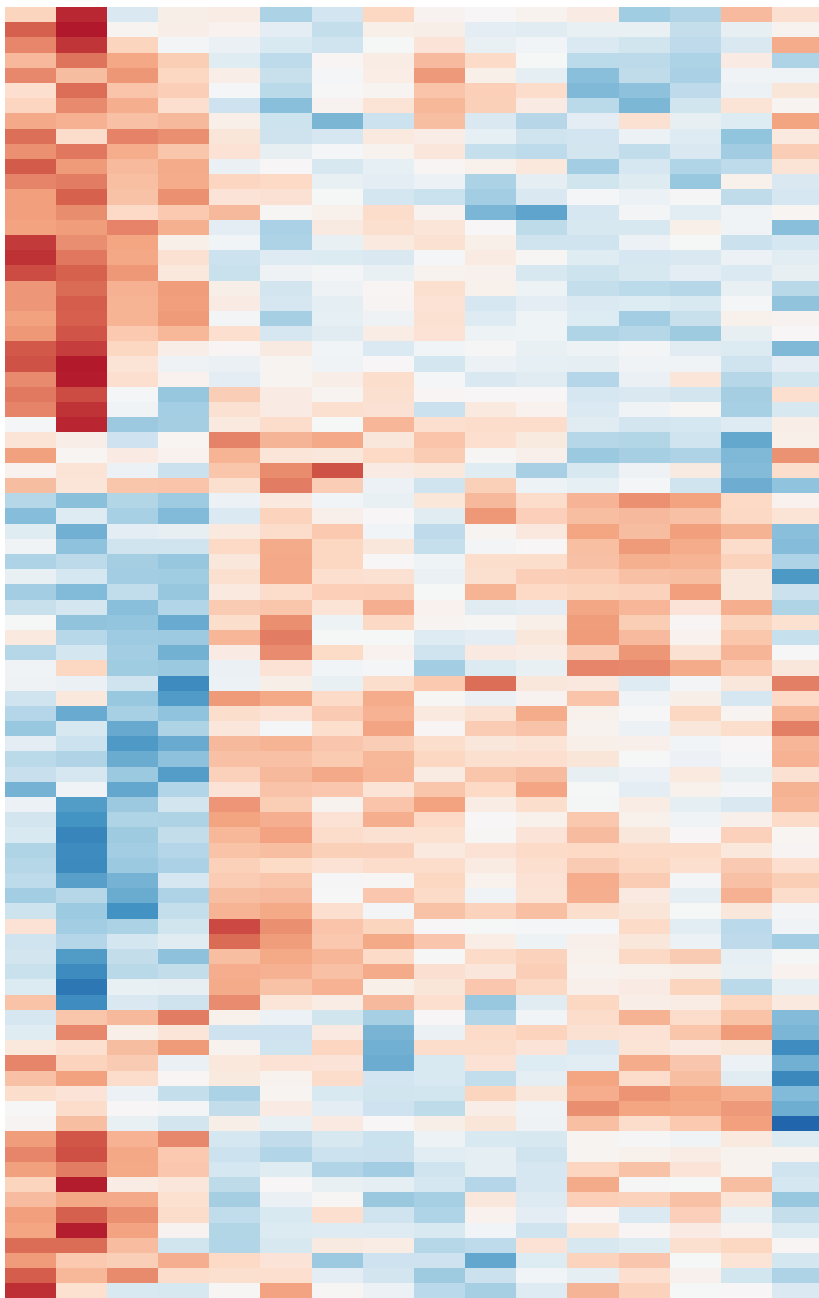
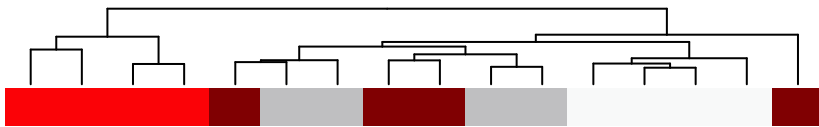


Tn Zhang Gene Set

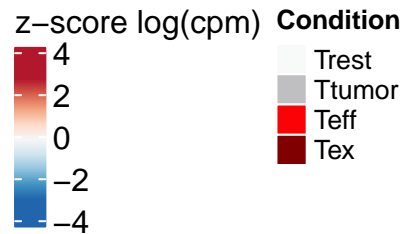


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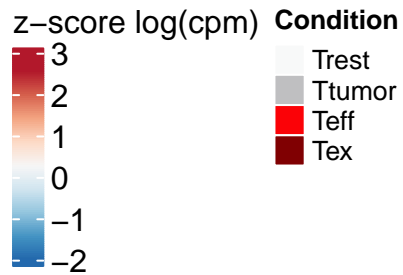
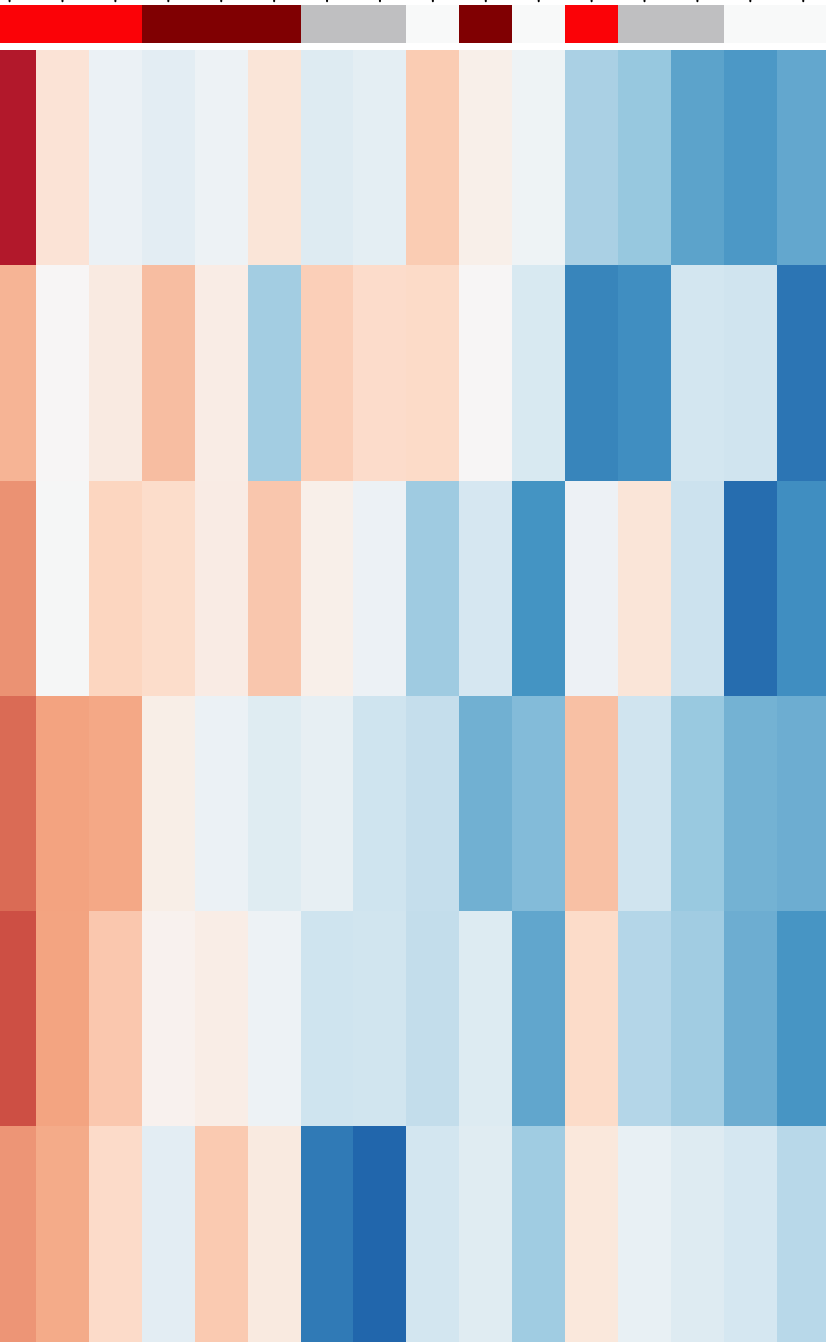
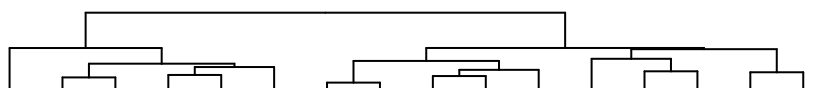
IL7R-Tm Zhang Gene Set



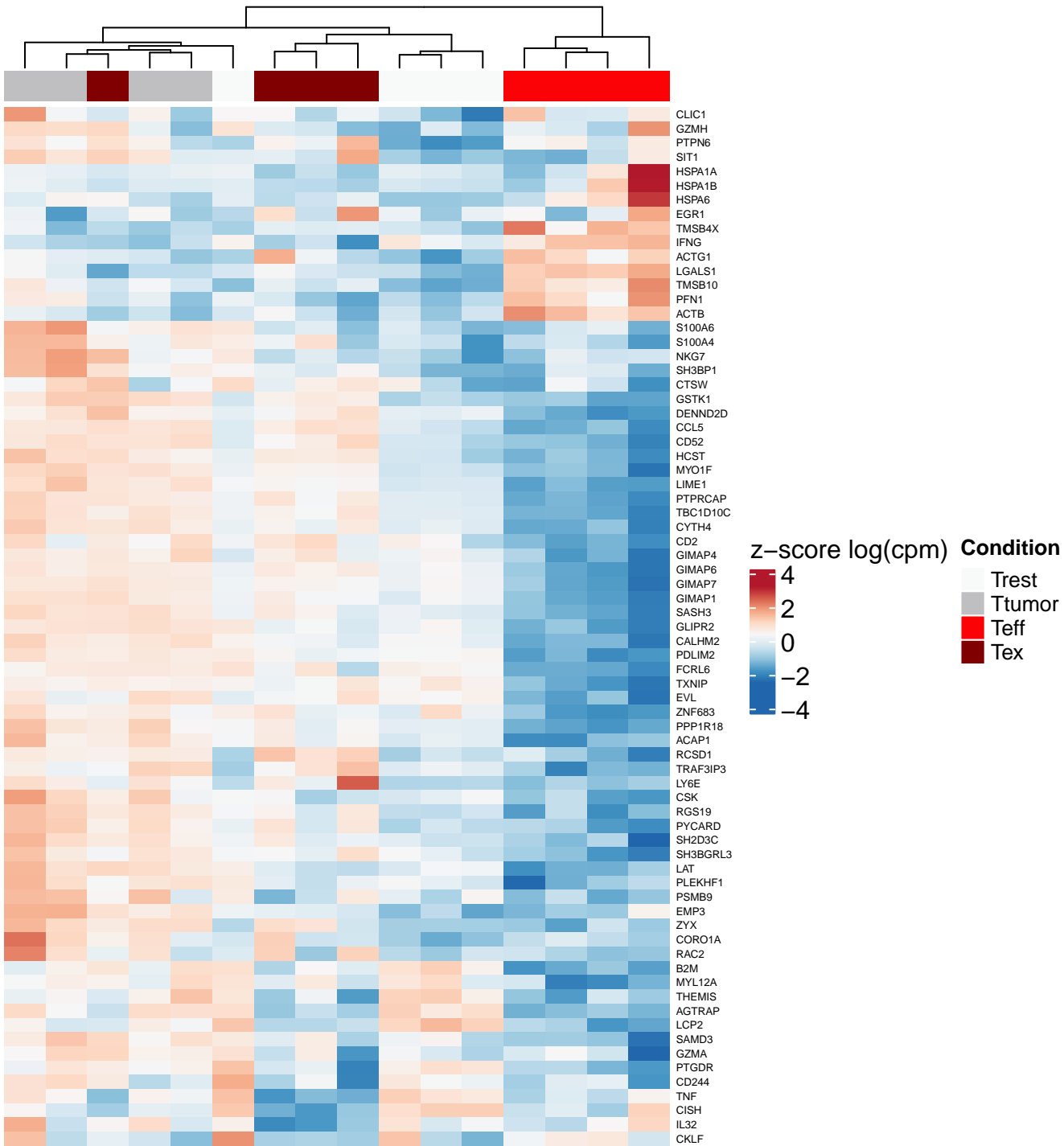
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PER1
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DUSP1
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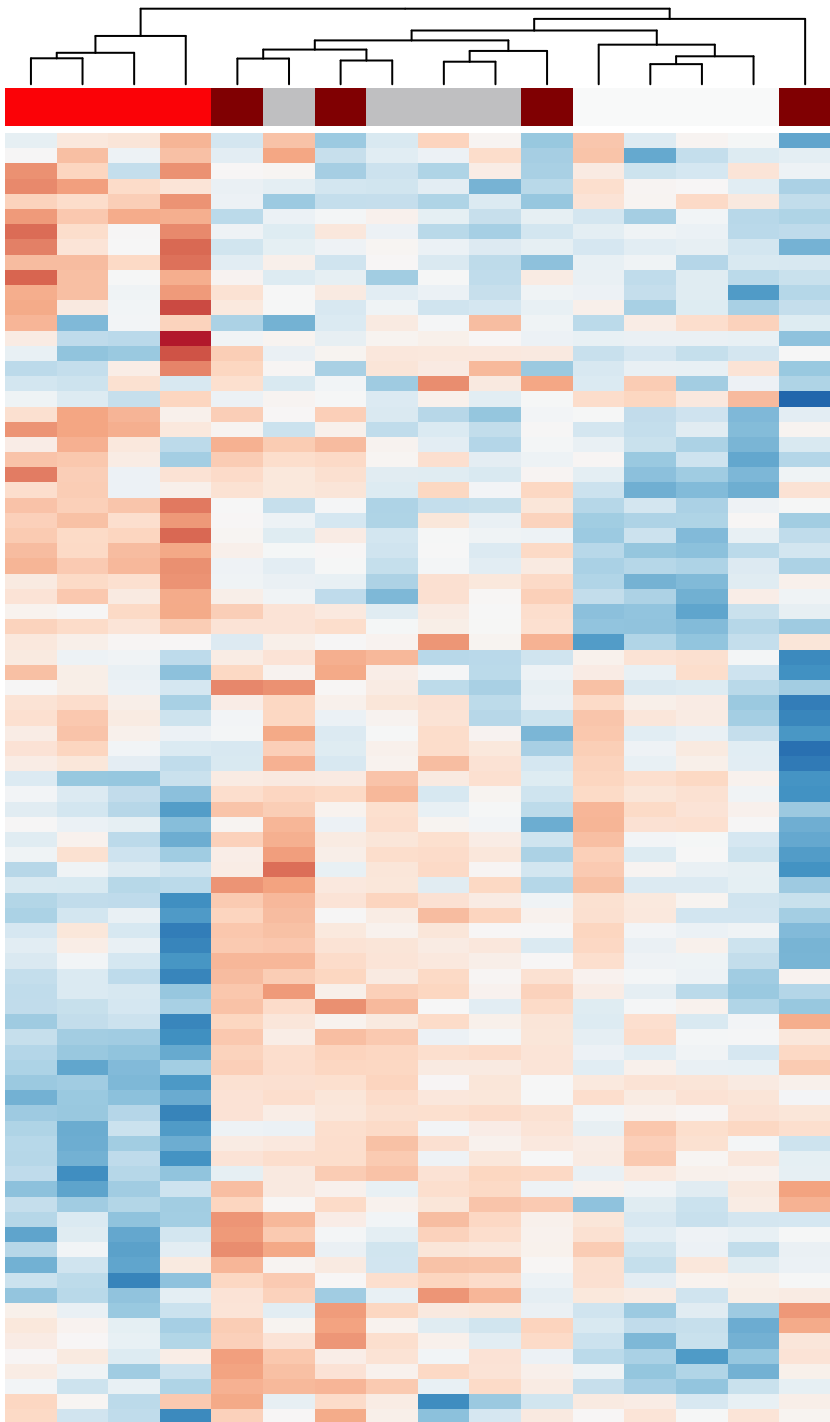
uncharacterized
Zhang Gene Set



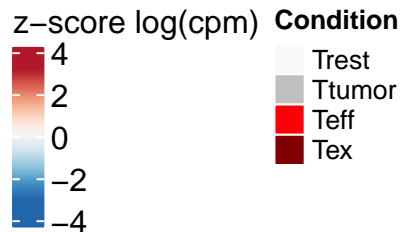
ZNF683pos-CXCR6neg-Tm Zhang Gene Set



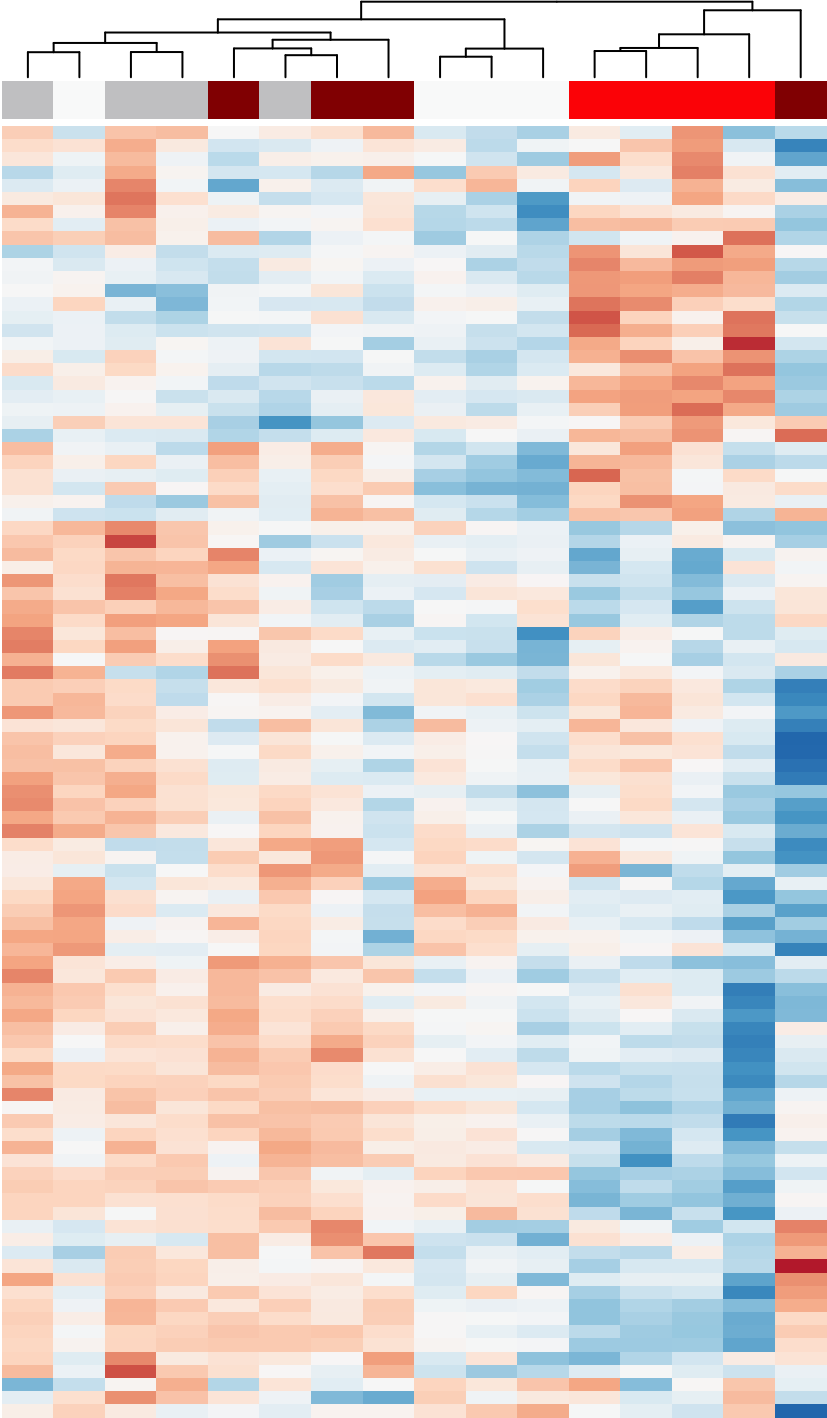
GZMKpos-earlyTem Zhang Gene Set



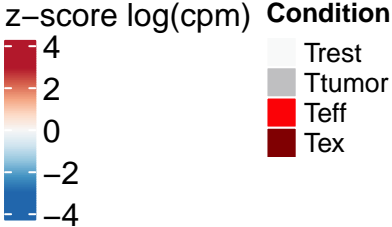
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GZMK
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ENC1
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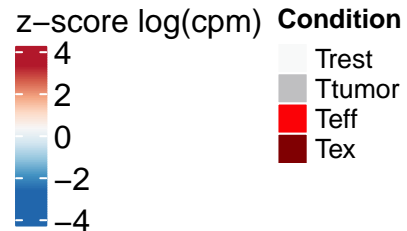
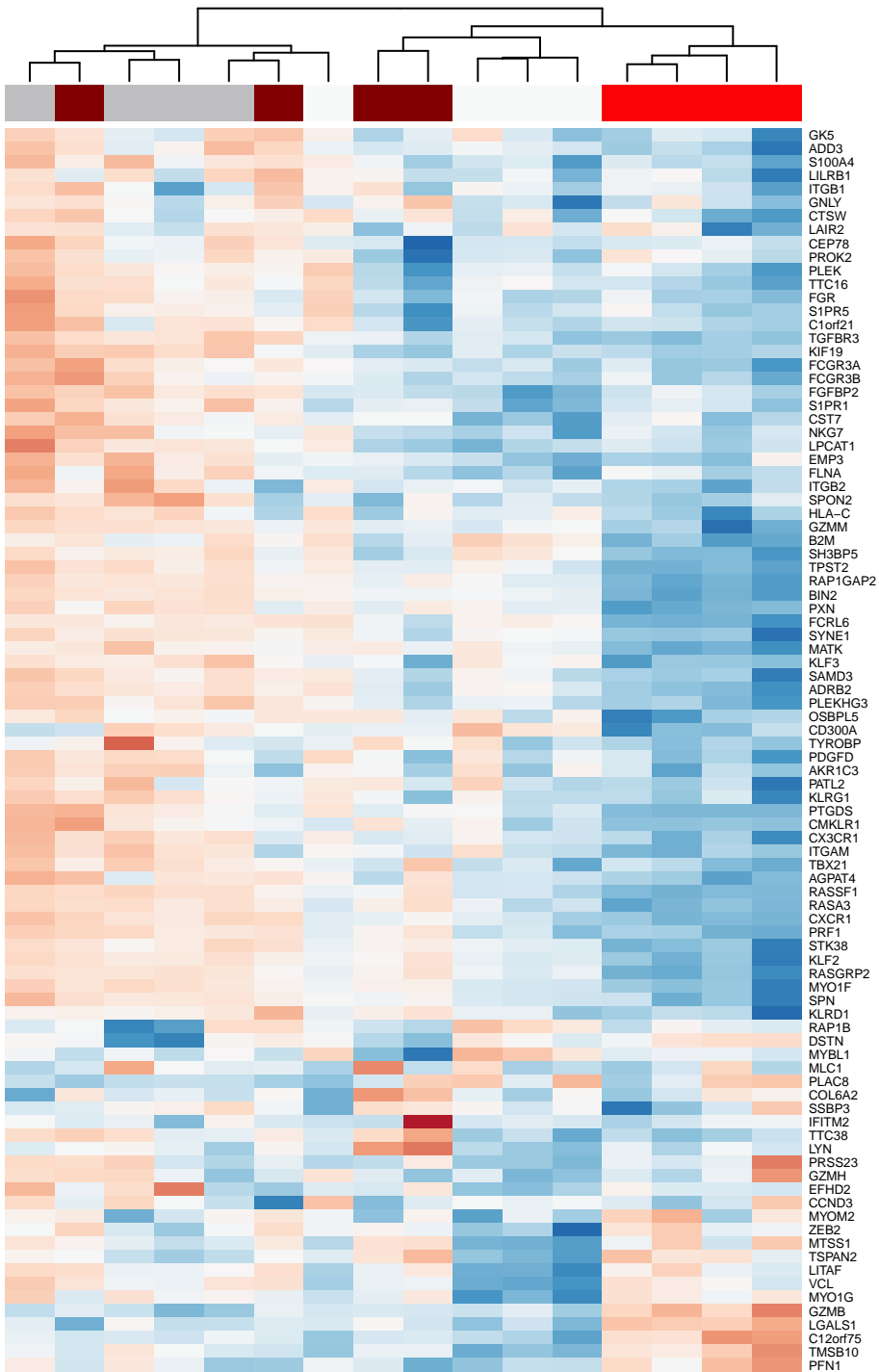
GZMKpos-Tem
Zhang Gene Set



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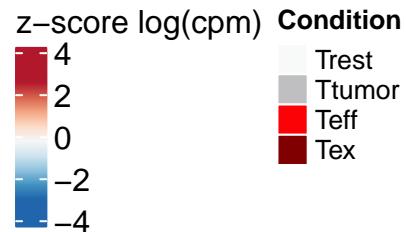
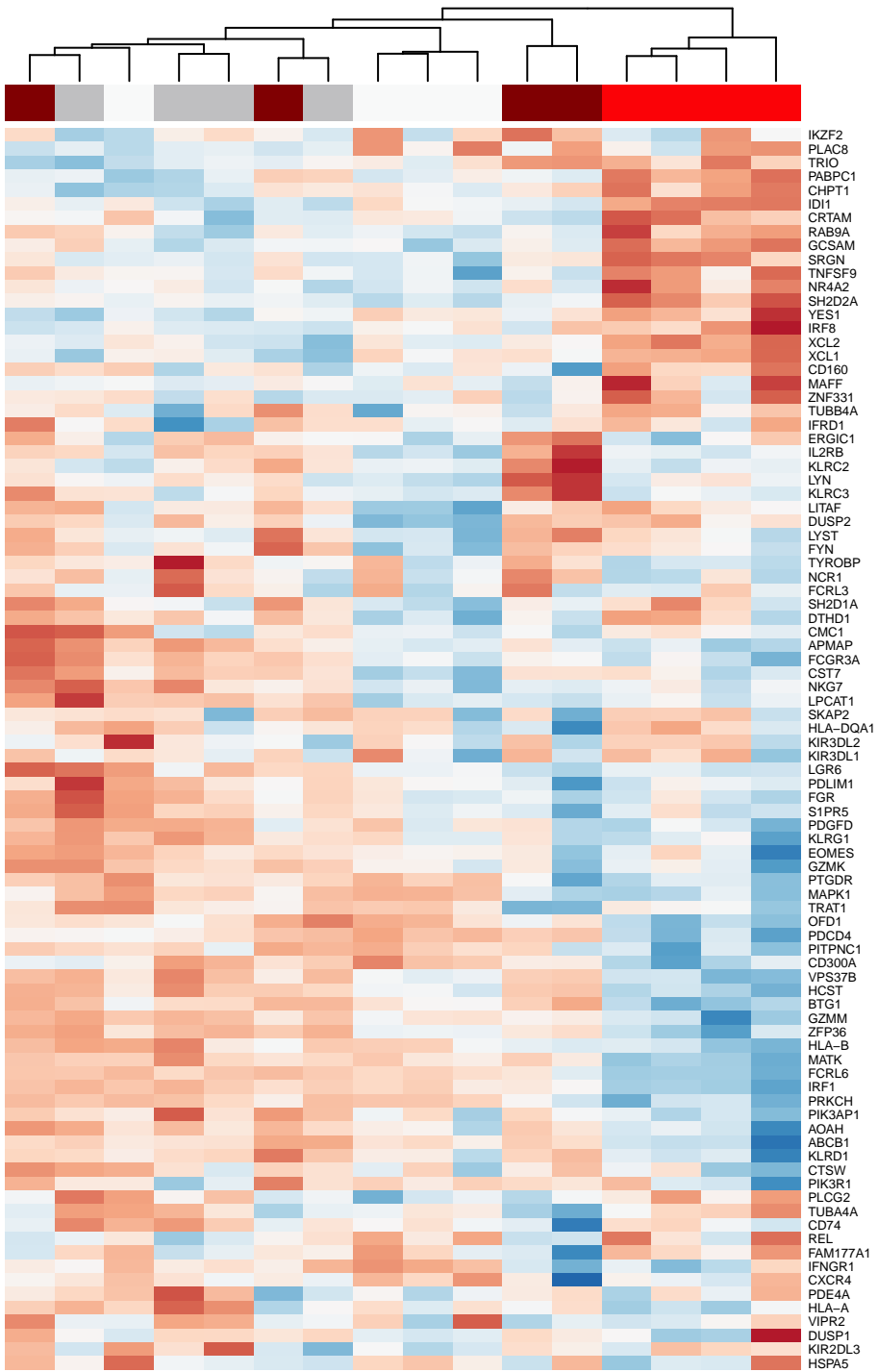


Temra Zhang Gene Set



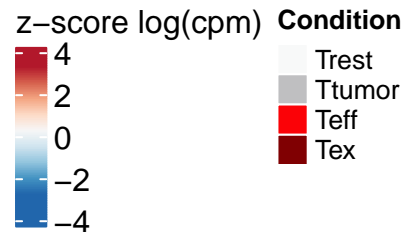
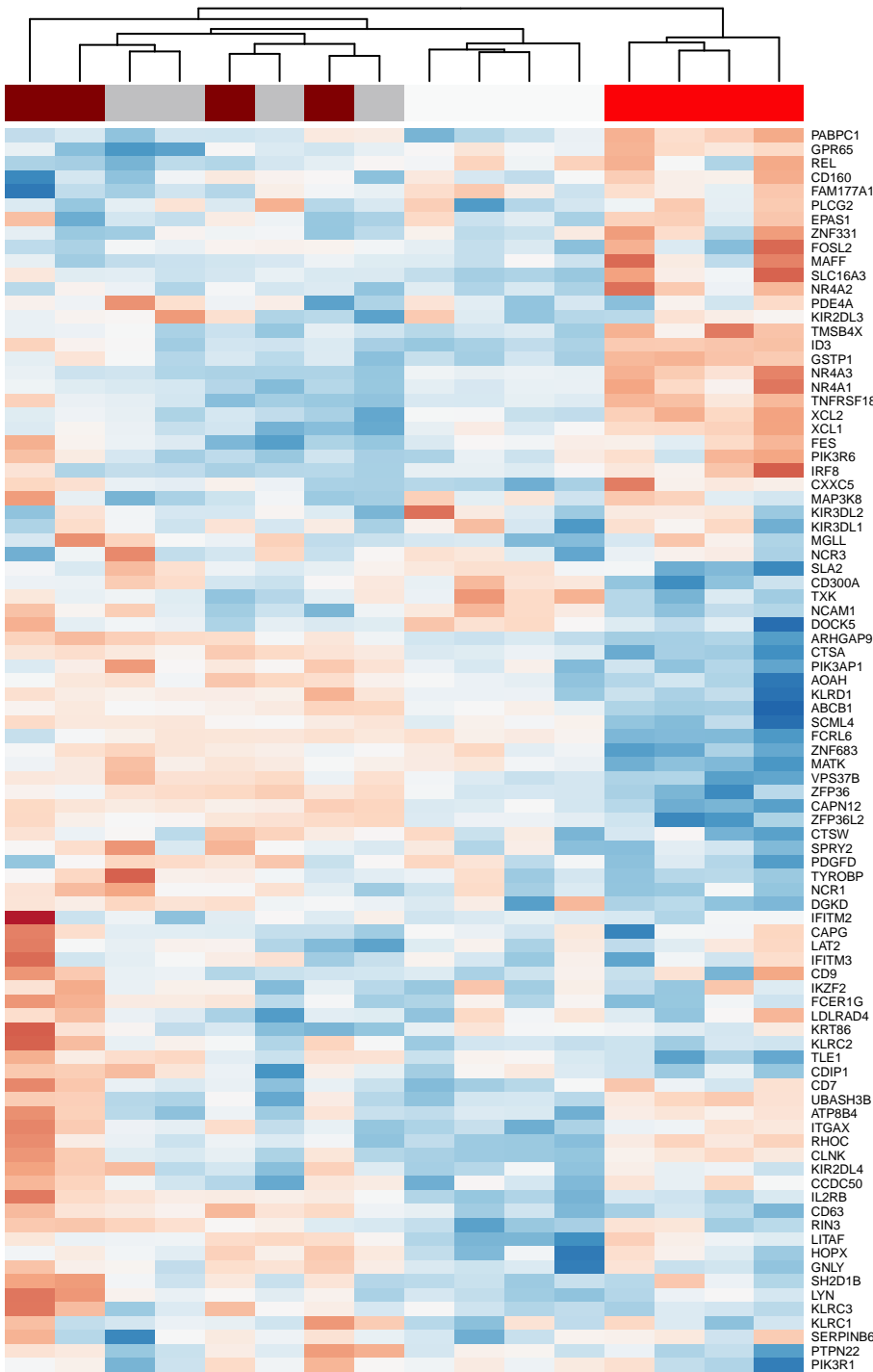
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KIRpos–EOMESpos–NK–like Zhang Gene Set

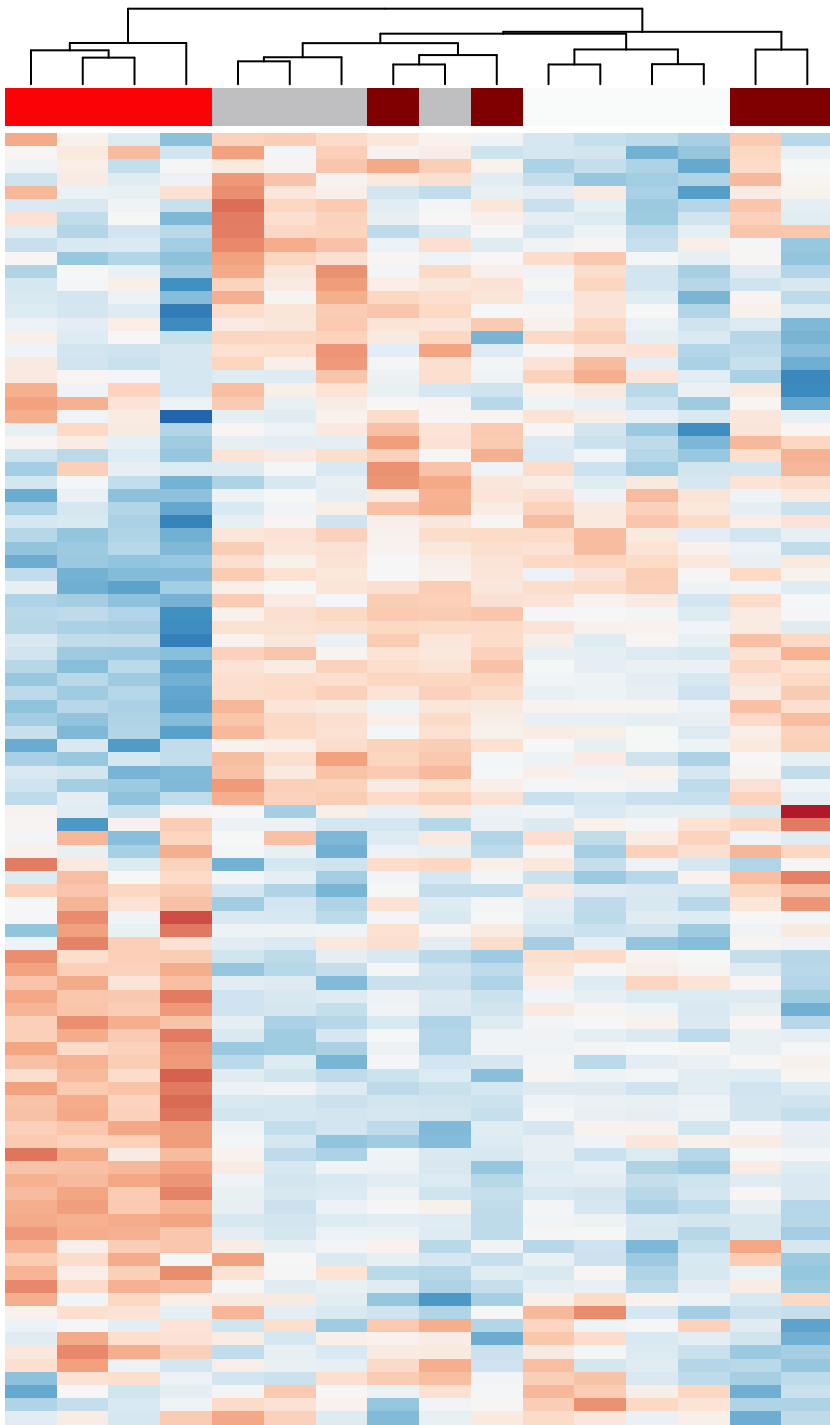


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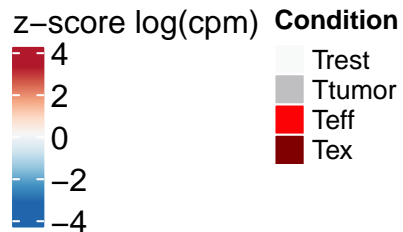
KIRpos–TXKpos–NK–like Zhang Gene Set



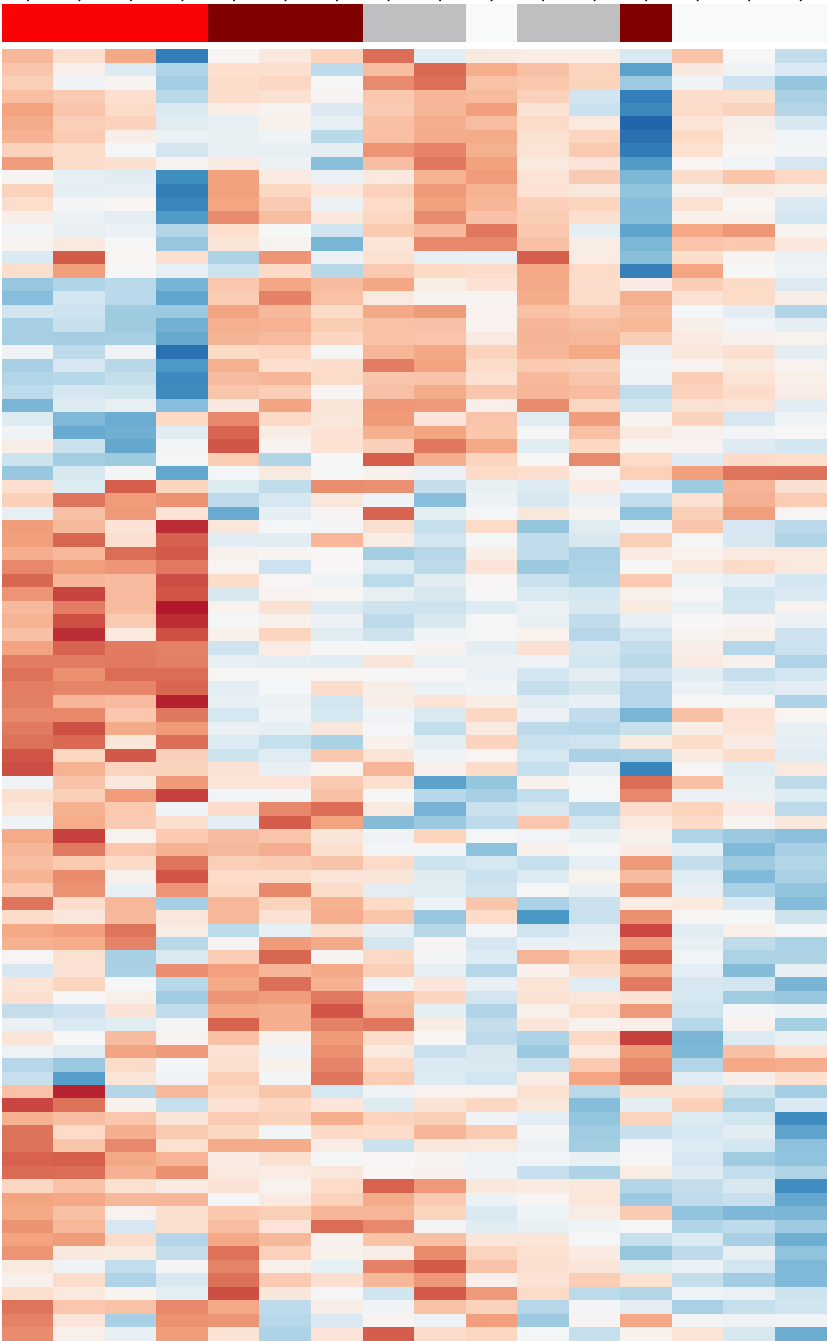
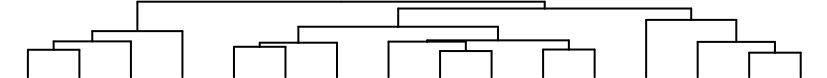
ZNF683pos-CXCR6pos-Trm Zhang Gene Set



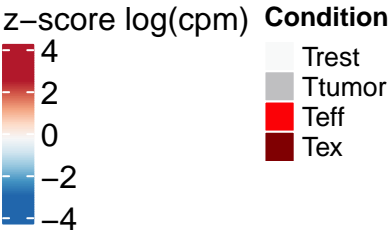
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 CAPZB
 MYL6
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 ALOX5AP
 S100A4
 ANXA1
 GZMA
 ANXA2
 GLUL
 CAP1
 MYL12B
 CFL1
 IDH2
 ARPC3
 HOPX
 ANKRD28
 CD63
 KLRC1
 PTPN22
 MCL1
 EMB
 CD96
 CD53
 PTGER4
 ID2
 ZNF683
 MYL12A
 CD2
 GLIPR1
 CXCR6
 ITGA1
 CD3D
 CTSA
 CCL5
 CD52
 CTSB
 CXCR3
 SH3BGRL3
 ZFP36L2
 S100A11
 ANXA5
 MSN
 ZYX
 IFITM2
 CAPG
 ITM2C
 LDLRAD4
 ABRACL
 CD7
 SMIM3
 RBPJ
 PFKFB3
 TNFAIP3
 RGS1
 TPM3
 ACTR3
 SAMSNI
 ARPC2
 TPM4
 PHILDA1
 GZMB
 FKBP1A
 TMEM14C
 SPRY1
 NDUF5
 PCK1
 LDHA
 XCL2
 XCL1
 TMSB4X
 LGALS1
 TAGLN2
 GAPDH
 COTL1
 TXN
 LCP1
 ACTG1
 ARPC1B
 PFN1
 ACTB
 PSME2
 CKLF
 ITGAE
 VIM
 PERP
 OSTF1
 LGALS3
 FKBP11
 ADAM19
 IL32



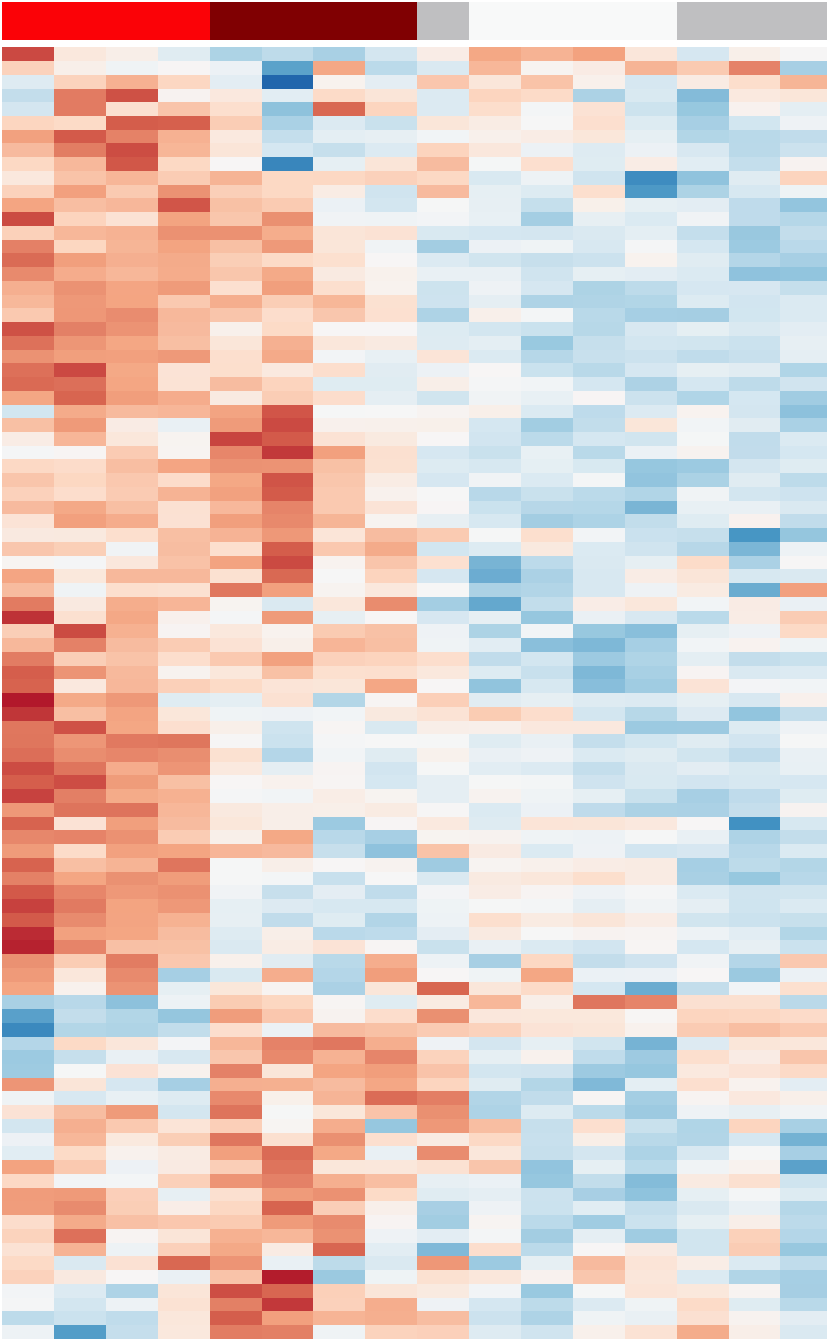
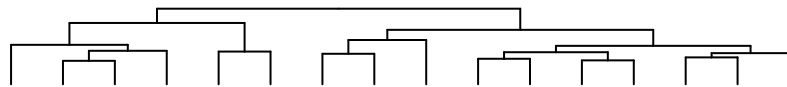
GZMKpos-
Tex Zhang Gene Set



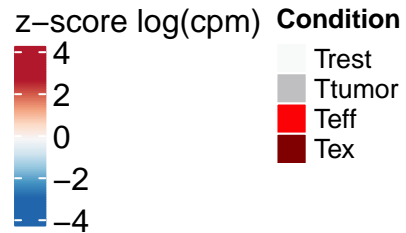
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HLA-DMA
HLA-DQB1
HLA-DQA1
HLA-DRA
HLA-DRB1
CD74
HLA-DPA1
CD200R1
EOMES
GZMA
GZMK
CTSC
TRAT1
TRPS1
HLA-DRB5
CD2
CBLB
PRF1
CCL5
CD8A
CARD16
MAP1LC3A
CXCR6
CCR5
ANXA5
CCL4
CCL4L2
CCL3L3
HLA-A
TSC22D1
ITM2A
SAMSN1
HLA-DQA2
CCL3
CD82
FKBP1A
NDFIP2
PMCH
DUSP4
NAB1
NAMPT
RNF19A
COTL1
TNIP3
PARK7
FABP5
BPGM
IFNG
PHLDA1
DUSP5
TNFSF4
BATF
HAVCR2
LAYN
AKAP5
ICOS
RGS1
CTLA4
PTMS
LAG3
RGS2
FASLG
GFOD1
CD38
IFIH6
GGA2
PDCD1
LYST
HMOX1
CD27
ACP5
SIRPG
CCDC141
TTN
TOX
PRDM1
ETV1
TIGIT
SEMA4A
HNRNPLL
GALM
TNFRSF9
APOBEC3G
APOBEC3C
DUSP2
IGFLR1
DTHD1
CADM1
NKG7
CST7
CMC1
VCAM1
CSF1
SNAP47



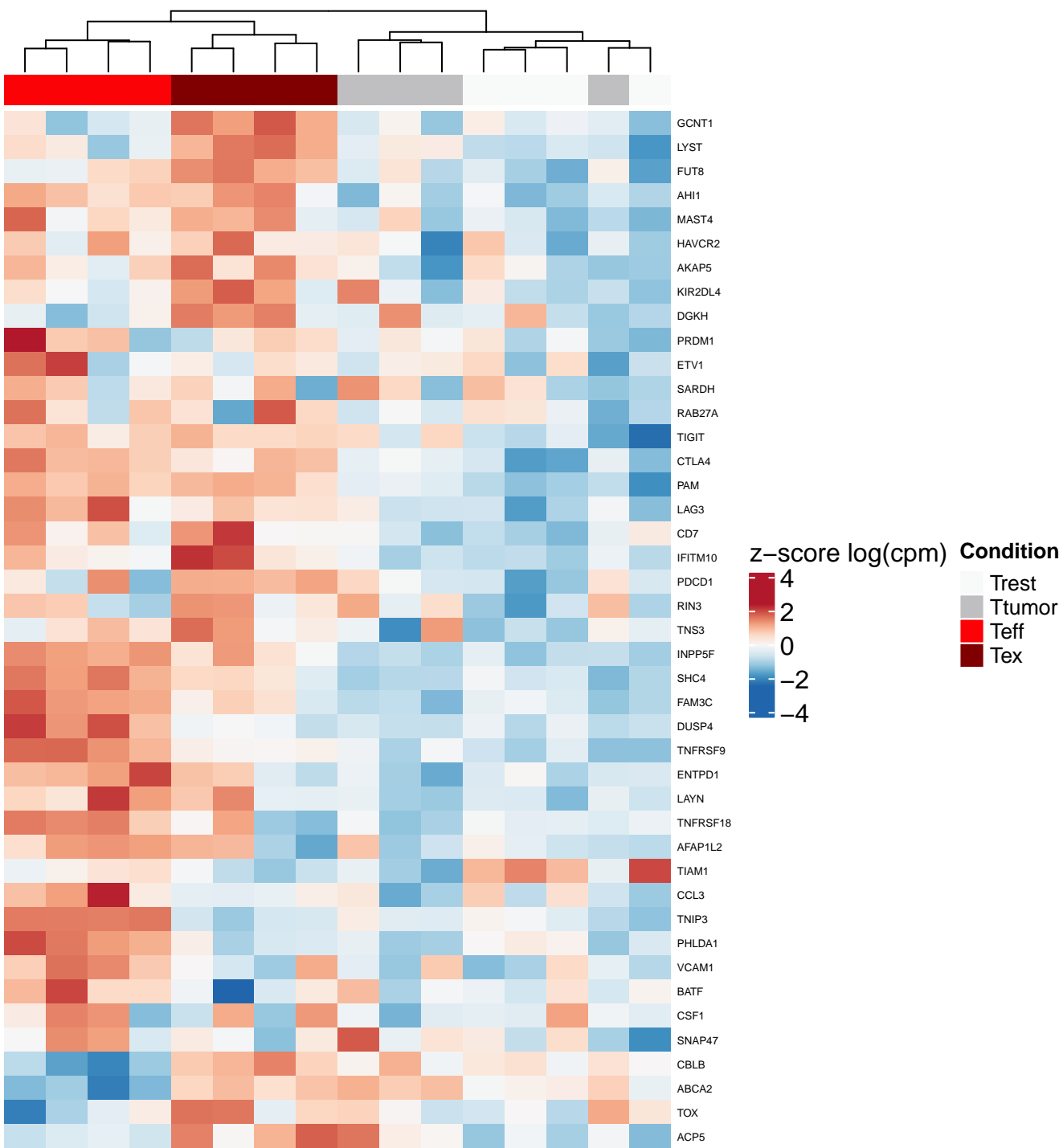
Tex-term Zhang Gene Set



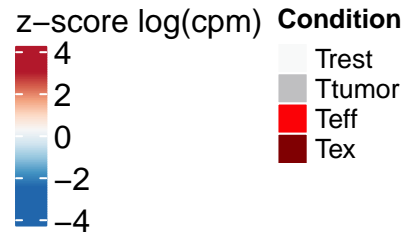
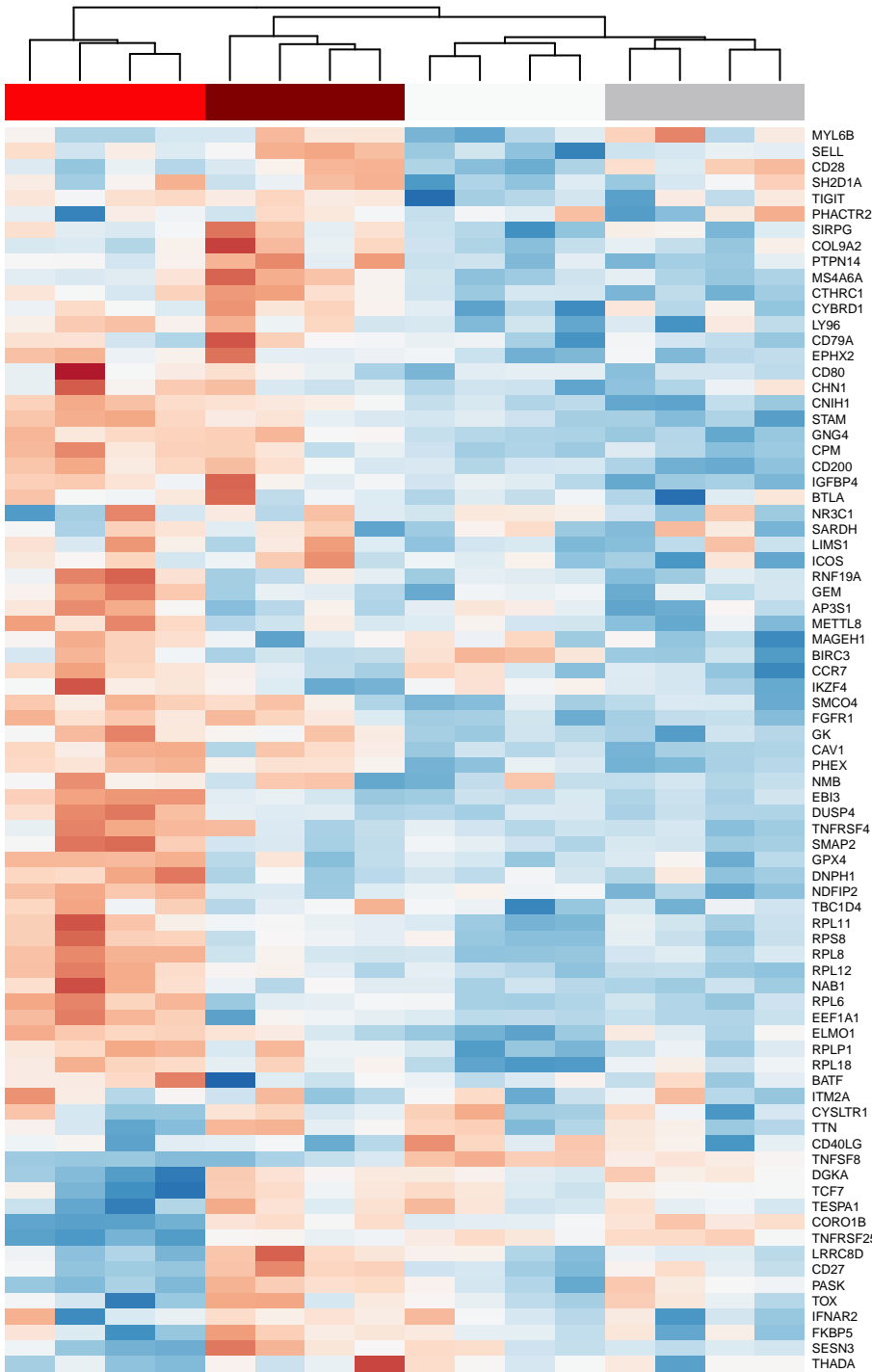
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HLA-DRA
ETV1
RAB27A
TNFSF4
PHLDA1
DNPH1
BATF
TIGIT
GOLIM4
ENTPD1
LAYN
GNG4
CD200
TSPAN13
MYO1E
INPP5F
CD109
PHIX
VDR
LMCD1
ID3
SNX9
CD82
FAM3C
ASB2
CD7
IFITM10
MS4A6A
PON2
ATP8B4
CLNK
ZC3H12C
GALNT2
GFOD1
TOX2
SIRPG
SOX4
TNS3
TBC1D4
CHN1
RGS1
CTLA4
PTMS
LAG3
UBE2F
SYNGR2
CCL3
GEM
PARK7
FABP5
GAPDH
DUSP4
GZMB
TNFRSF9
CANK1
TNFRSF18
AFAP1L2
FKBP1A
NDFIP2
PKM
TPH1
ZBED2
IL2RA
NAB1
VCAM1
CSF1
SNAP47
LRRN3
CTSD
CXCR6
LYST
CD63
HMOX1
PDCD1
ACP5
IGFLR1
SARDH
AKAP5
KIR2DL4
HAVCR2
FUT8
RGS2
RBPJ
AHI1
MAST4
ICOS
ITM2A
KRT86
SRGAP3
PDEFB
CD27
TOX



OXPHOSneg- Tex Zhang Gene Set

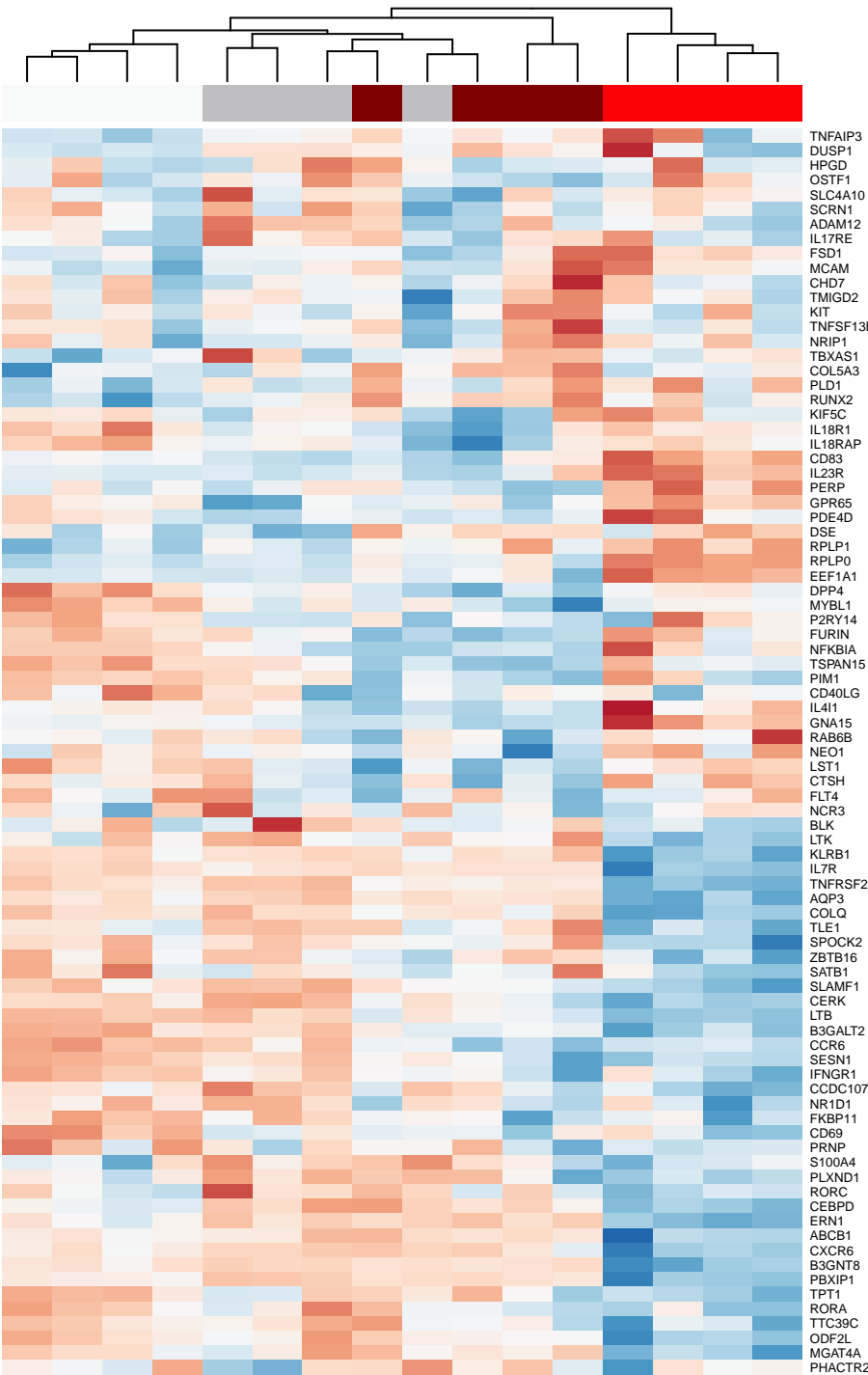


TCF7pos- Tex Zhang Gene Set

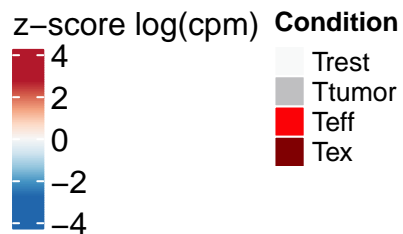


MYL6B
 SELL
 CD28
 SH2D1A
 TIGIT
 PHACTR2
 SIRPG
 COL9A2
 PTPN14
 MS4A6A
 CTHRC1
 CYBRD1
 LY96
 CD79A
 EPHX2
 CD80
 CHN1
 CNIH1
 STAM
 GNG4
 CPM
 CD200
 IGFBP4
 BTLA
 NR3C1
 SARDH
 LIMS1
 ICOS
 RNF19A
 GEM
 AP3S1
 METTL8
 MAGEH1
 BIRC3
 CCR7
 IKZF4
 SMC04
 FGFR1
 GK
 CAV1
 PHEX
 NMB
 EB13
 DUSP4
 TNFRSF4
 SMAP2
 GPX4
 DNPH1
 NDFIP2
 TBC1D4
 RPL11
 RPS8
 RPL8
 RPL12
 NAB1
 RPL6
 EEF1A1
 ELMO1
 RPLP1
 RPL18
 BATF
 ITM2A
 CYSLTR1
 TTN
 CD40LG
 TNFSF8
 DGKA
 TCF7
 TESPA1
 CORO1B
 TNFRSF25
 LRRC8D
 CD27
 PASK
 TOX
 IFNAR2
 FKBP5
 SESN3
 THADA

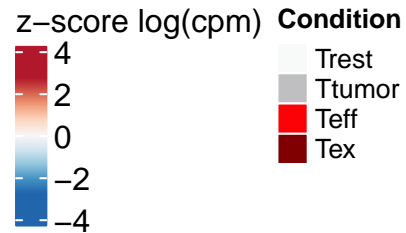
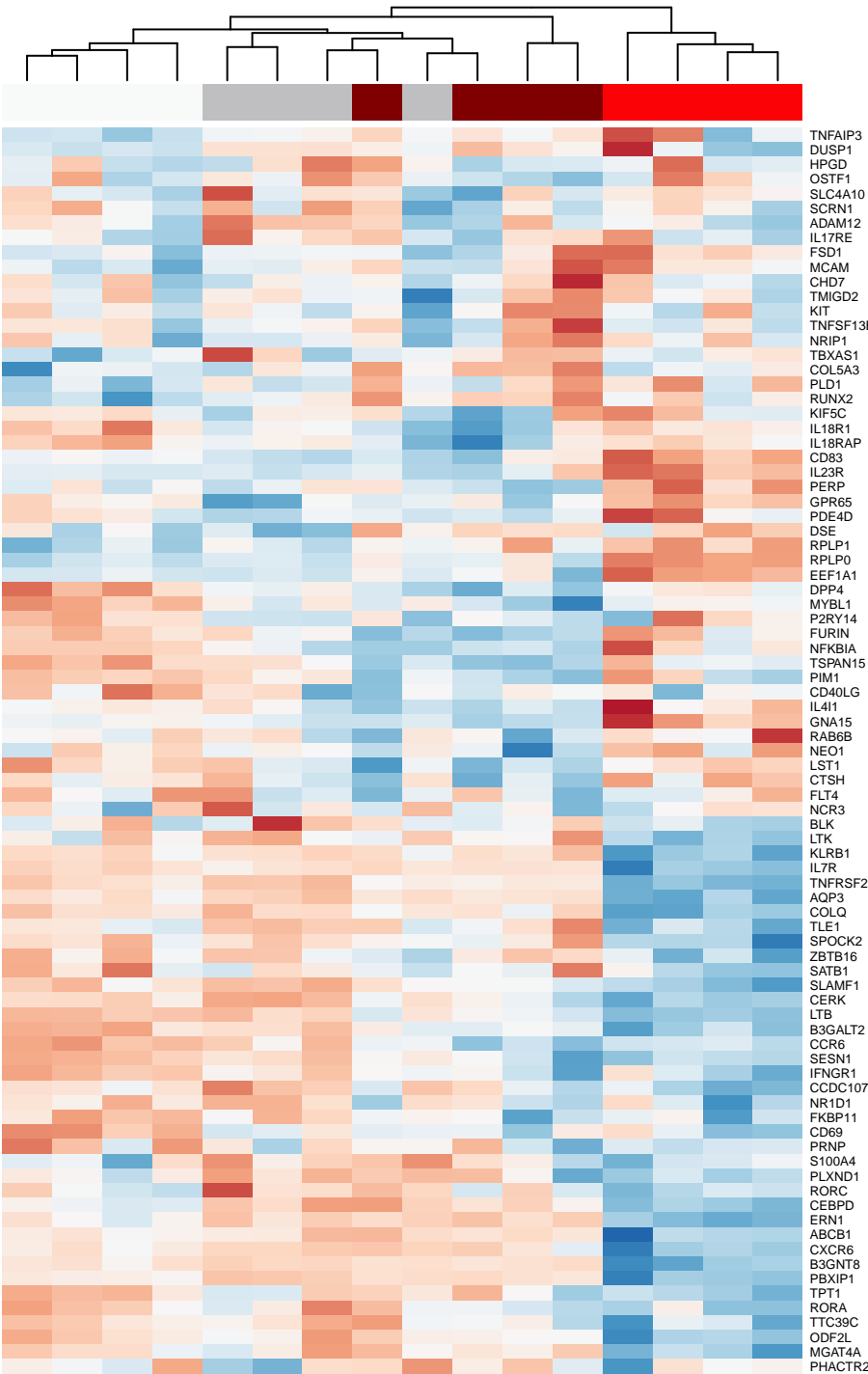
ISGpos-CD8pos-T Zhang Gene Set



TNFAIP3
DUSP1
HPGD
OSTF1
SLC4A10
SCRN1
ADAM12
IL17RE
FSD1
MCAM
CHD7
TMIGD2
KIT
TNFSF13B
NRIP1
TBXAS1
COL5A3
PLD1
RUNX2
KIF5C
IL18R1
IL18RAP
CD83
IL23R
PERP
GPR65
PDE4D
DSE
RPLP1
RPLP0
EEF1A1
DPP4
MYBL1
P2RY14
FURIN
NFKBIA
TSPAN15
PIM1
CD40LG
IL4I1
GNA15
RAB6B
NEO1
LST1
CTSH
FLT4
NCR3
BLK
LTK
KLRB1
IL7R
TNFRSF25
AQP3
COLQ
TLE1
SPOCK2
ZBTB16
SATB1
SLAMF1
CERK
LTB
B3GALT2
CCR6
SESN1
IFNGR1
CCDC107
NR1D1
FKBP11
CD69
PRNP
S100A4
PLXND1
RORC
CEBPD
ERN1
ABCB1
CXCR6
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PBXIP1
TPT1
RORA
TTC39C
ODF2L
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PHACTR2

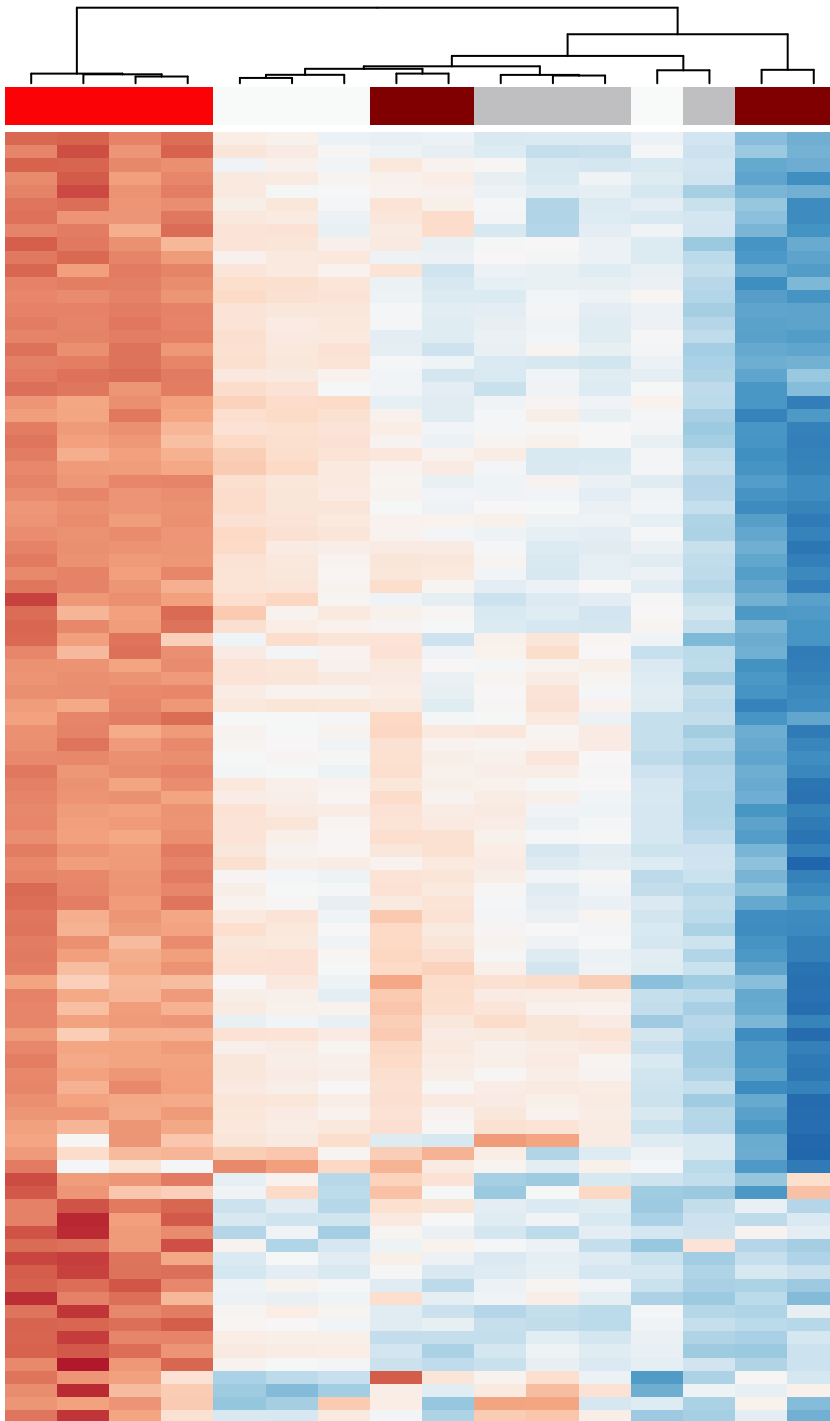


Tc17 Zhang Gene Set



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HPGD
OSTF1
SLC4A10
SCRN1
ADAM12
IL17RE
FSD1
MCAM
CHD7
TMIGD2
KIT
TNFSF13B
NRIP1
TBXAS1
COL5A3
PLD1
RUNX2
KIF5C
IL18R1
IL18RAP
CD83
IL23R
PERP
GPR65
PDE4D
DSE
RPLP1
RPLP0
EEF1A1
DPP4
MYBL1
P2RY14
FURIN
NFKBIA
TSPAN15
PIM1
CD40LG
IL4I1
GNA15
RAB6B
NEO1
LST1
CTSH
FLT4
NCR3
BLK
LTK
KLRB1
IL7R
TNFRSF25
AQP3
COLQ
TLE1
SPOCK2
ZBTB16
SATB1
SLAMF1
CERK
LTB
B3GALT2
CCR6
SESN1
IFNGR1
CCDC107
NR1D1
FKBP11
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PRNP
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PLXND1
RORC
CEBPD
ERN1
ABCB1
CXCR6
B3GNT8
PBXIP1
TPT1
RORA
TTC39C
ODF2L
MGAT4A
PHACTR2

NME1pos-T Zhang Gene Set



DUT
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MND1
DIAPH3
OKS1B
NUP2
HMMR
DEPDC1
TUBB
CENPW
OIP5
GINS2
MCM10
RAD51
CDC45
DTL
FEN1
ORC6
MCM2
MCM4
CLSPN
UHRF1
ZWINT
TUBA1B
SPC25
SKA3
MYBL2
TYMS
RRM2
SKA1
SHCBP1
CEP55
NCAPG
CDK1
HMGB3
DHFR
CENPU
SMC2
ASF1B
CENPM
MKI67
CDCA5
TK1
PKMYT1
CDT1
UBE2C
KIF2C
AURKB
CDC20
TPX2
BIRC5
CDCA2
KIF15
NUSAP1
DLGAP5
CCNA2
CCNB2
CCNB1
CDKN3
CENPF
STMN1
DEPDC1B
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CENPA
PLK1
GTSE1
CDCA8
KIF4A
FOXM1
SPC24
CDCA3
HJURP
KIFC1
E2F2
ASPM
HMG2
CDCA7
PHF19
RPLP0
GAPDH
LDHB
COTL1
PPIA
NME2
MCM7
ACTB
PAICS
PRDX3
NME1
RANBP1
ENO1
ACTG1
TMSB10
MT1E
PFN1

