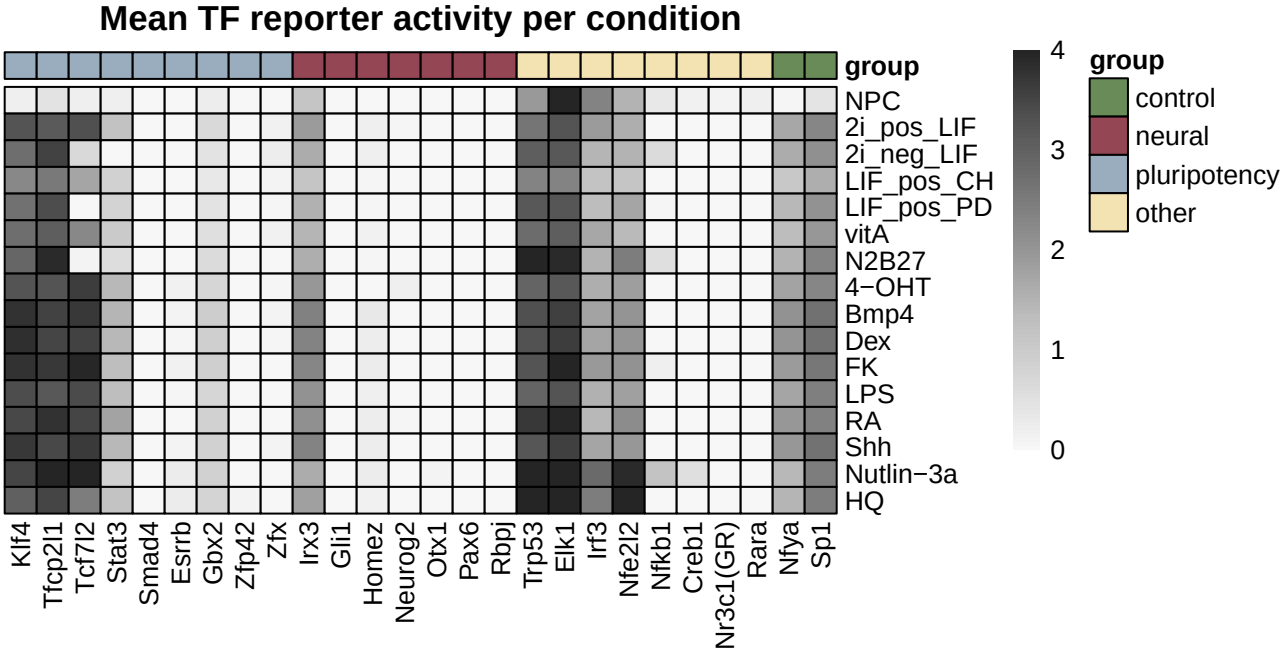
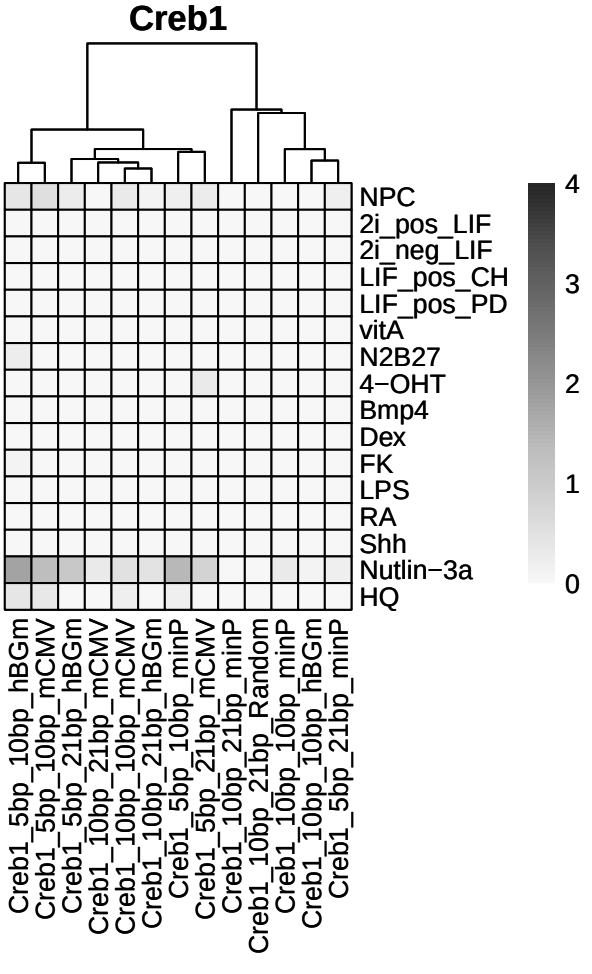
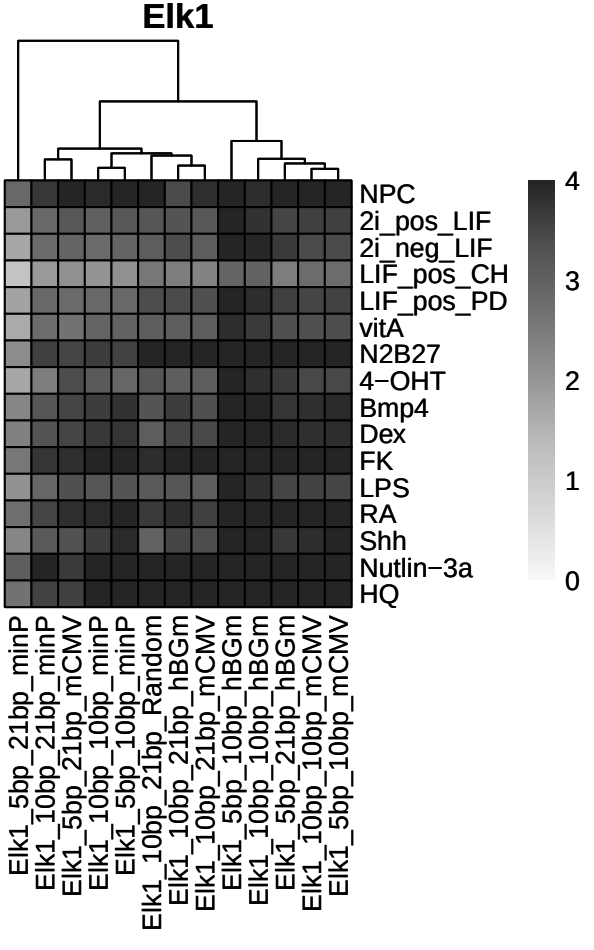
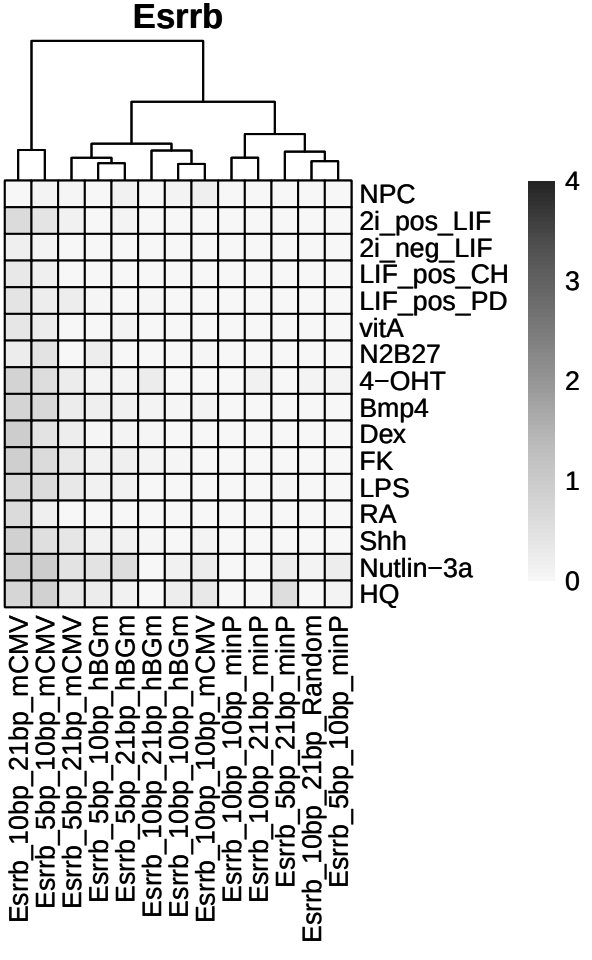
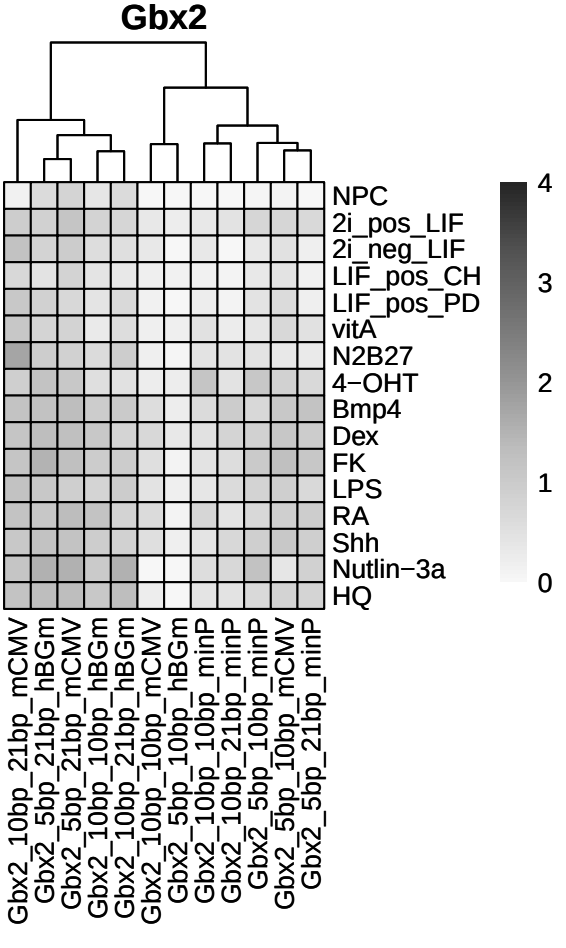
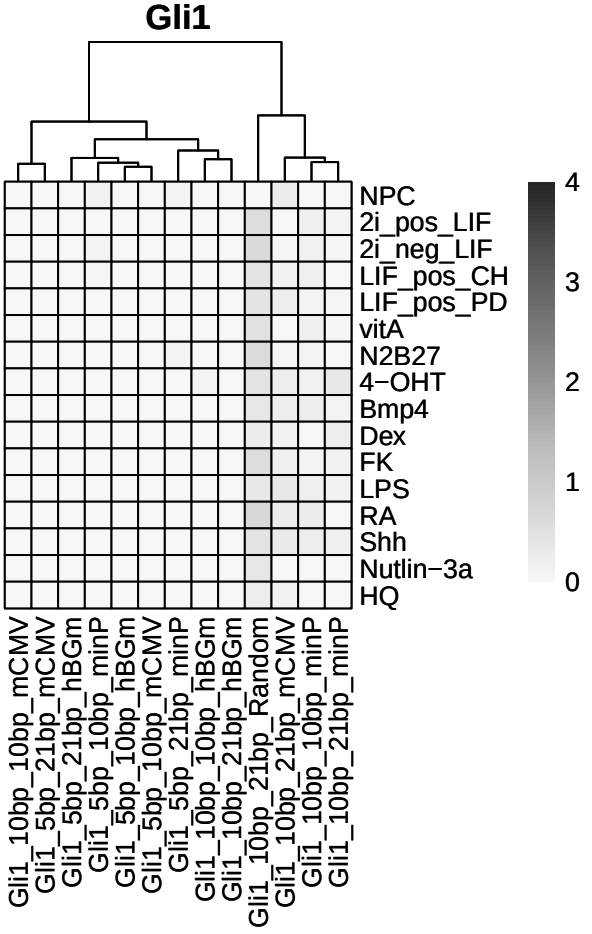

Mean TF reporter activity per condition
group
NPC
2i_pos_LIF
2i_neg_LIF
LIF_pos_CH
LIF_pos_PD
vitA
N2B27
4−OHT
Bmp4
Dex
FK
LPS
RA
Shh
Nutlin−3a
HQ
Klf4
Tfcp2l1
Tcf7l2
Stat3
Smad4
Esrrb
Gbx2
Zfp42
Zfx
Irx3
Gli1
Homez
Neurog2
Otx1
Pax6
Rbpj
Trp53
Elk1
Irf3
Nfe2l2
Nfkb1
Creb1
Nr3c1(GR)
Rara
Nfya
Sp1
4
3
2
1
0
group
control
neural
pluripotency
other

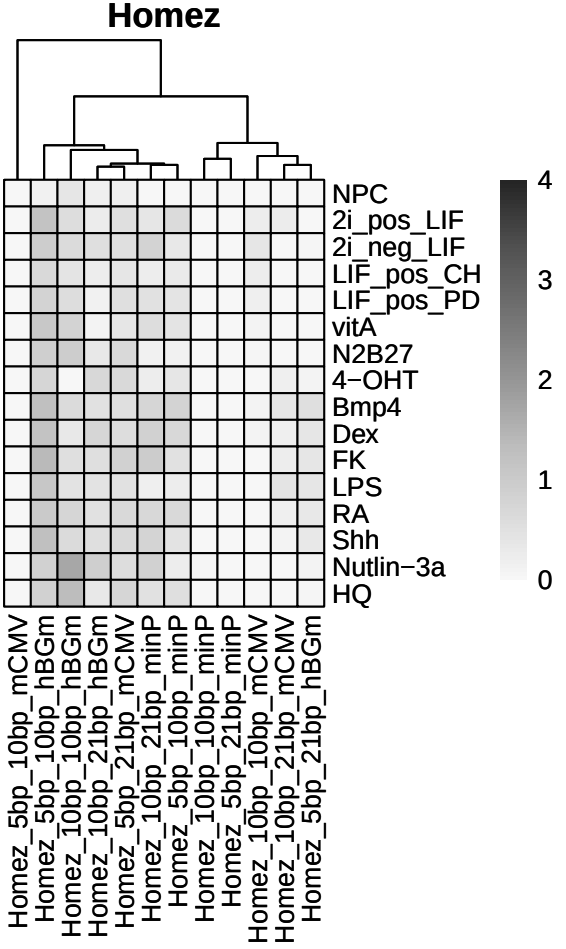

Creb1
NPC
2i_pos_LIF
2i_neg_LIF
LIF_pos_CH
LIF_pos_PD
vitA
N2B27
4−OHT
Bmp4
Dex
FK
LPS
RA
Shh
Nutlin−3a
HQ
4
3
2
1
0
Creb1_5bp_10bp_hBGm
Creb1_5bp_10bp_mCMV
Creb1_5bp_21bp_hBGm
Creb1_10bp_21bp_mCMV
Creb1_10bp_10bp_mCMV
Creb1_10bp_21bp_hBGm
Creb1_5bp_10bp_minP
Creb1_5bp_21bp_mCMV
Creb1_10bp_21bp_minP
Creb1_10bp_21bp_Random
Creb1_10bp_10bp_minP
Creb1_10bp_10bp_hBGm
Creb1_5bp_21bp_minP


Elk1
NPC
2i_pos_LIF
2i_neg_LIF
LIF_pos_CH
LIF_pos_PD
vitA
N2B27
4−OHT
Bmp4
Dex
FK
LPS
RA
Shh
Nutlin−3a
HQ
4
3
2
1
0
Elk1_5bp_21bp_minP
Elk1_10bp_21bp_minP
Elk1_5bp_21bp_mCMV
Elk1_10bp_10bp_minP
Elk1_5bp_10bp_minP
Elk1_10bp_21bp_Random
Elk1_10bp_21bp_hBGm
Elk1_10bp_21bp_mCMV
Elk1_5bp_10bp_hBGm
Elk1_10bp_10bp_hBGm
Elk1_5bp_21bp_hBGm
Elk1_10bp_10bp_mCMV
Elk1_5bp_10bp_mCMV


Esrrb
NPC
2i_pos_LIF
2i_neg_LIF
LIF_pos_CH
LIF_pos_PD
vitA
N2B27
4−OHT
Bmp4
Dex
FK
LPS
RA
Shh
Nutlin−3a
HQ
4
3
2
1
0
Esrrb_10bp_21bp_mCMV
Esrrb_5bp_10bp_mCMV
Esrrb_5bp_21bp_mCMV
Esrrb_5bp_10bp_hBGm
Esrrb_5bp_21bp_hBGm
Esrrb_10bp_21bp_hBGm
Esrrb_10bp_10bp_hBGm
Esrrb_10bp_10bp_mCMV
Esrrb_10bp_10bp_minP
Esrrb_10bp_21bp_minP
Esrrb_5bp_21bp_minP
Esrrb_10bp_21bp_Random
Esrrb_5bp_10bp_minP


Gbx2
NPC
2i_pos_LIF
2i_neg_LIF
LIF_pos_CH
LIF_pos_PD
vitA
N2B27
4−OHT
Bmp4
Dex
FK
LPS
RA
Shh
Nutlin−3a
HQ
4
3
2
1
0
Gbx2_10bp_21bp_mCMV
Gbx2_5bp_21bp_hBGm
Gbx2_5bp_21bp_mCMV
Gbx2_10bp_10bp_hBGm
Gbx2_10bp_21bp_hBGm
Gbx2_10bp_10bp_mCMV
Gbx2_5bp_10bp_hBGm
Gbx2_10bp_10bp_minP
Gbx2_10bp_21bp_minP
Gbx2_5bp_10bp_minP
Gbx2_5bp_10bp_mCMV
Gbx2_5bp_21bp_minP


Gli1
NPC
2i_pos_LIF
2i_neg_LIF
LIF_pos_CH
LIF_pos_PD
vitA
N2B27
4−OHT
Bmp4
Dex
FK
LPS
RA
Shh
Nutlin−3a
HQ
4
3
2
1
0
Gli1_10bp_10bp_mCMV
Gli1_5bp_21bp_mCMV
Gli1_5bp_21bp_hBGm
Gli1_5bp_10bp_minP
Gli1_5bp_10bp_hBGm
Gli1_5bp_10bp_mCMV
Gli1_5bp_21bp_minP
Gli1_10bp_10bp_hBGm
Gli1_10bp_21bp_hBGm
Gli1_10bp_21bp_Random
Gli1_10bp_21bp_mCMV
Gli1_10bp_10bp_minP
Gli1_10bp_21bp_minP


Homez
NPC
2i_pos_LIF
2i_neg_LIF
LIF_pos_CH
LIF_pos_PD
vitA
N2B27
4−OHT
Bmp4
Dex
FK
LPS
RA
Shh
Nutlin−3a
HQ
4
3
2
1
0
Homez_5bp_10bp_mCMV
Homez_5bp_10bp_hBGm
Homez_10bp_10bp_hBGm
Homez_10bp_21bp_hBGm
Homez_5bp_21bp_mCMV
Homez_10bp_21bp_minP
Homez_5bp_10bp_minP
Homez_10bp_10bp_minP
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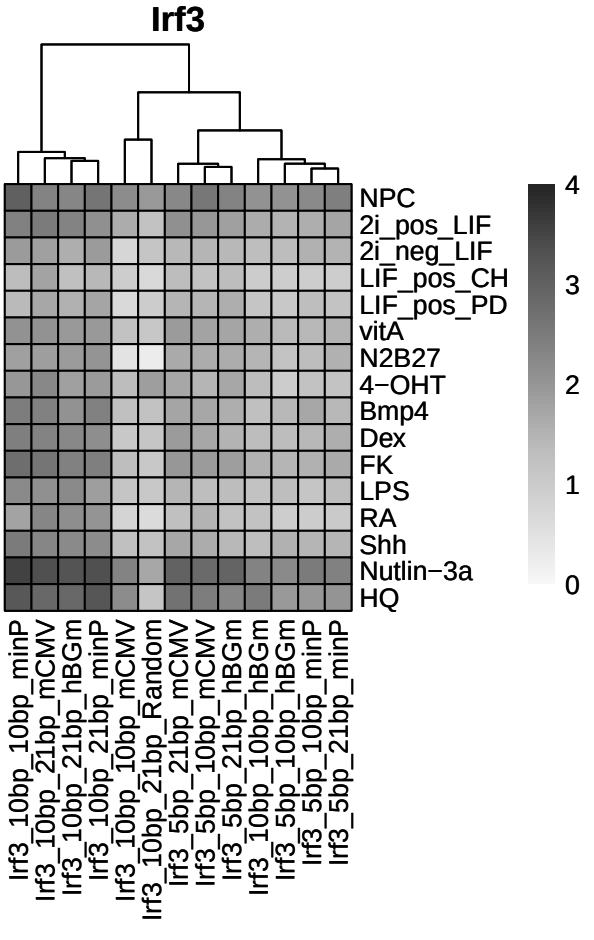
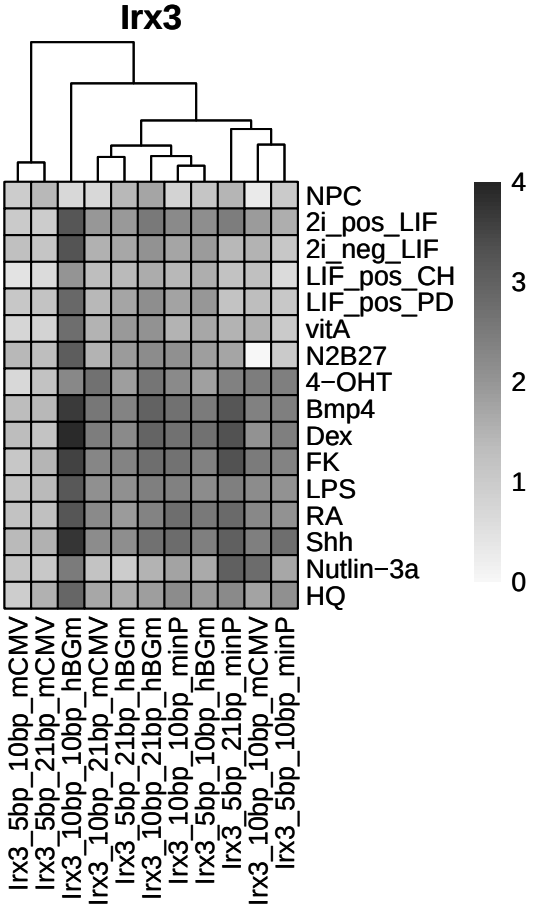
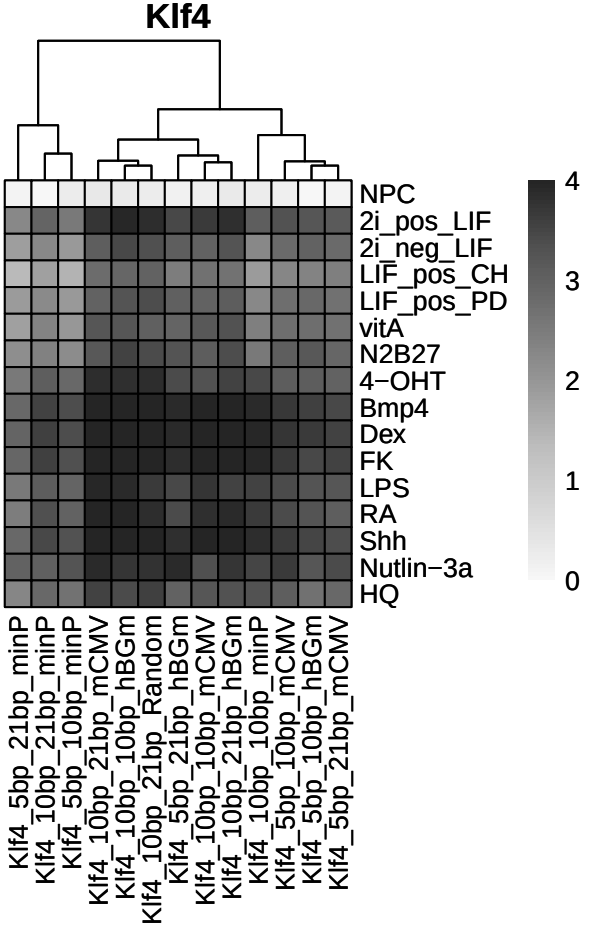
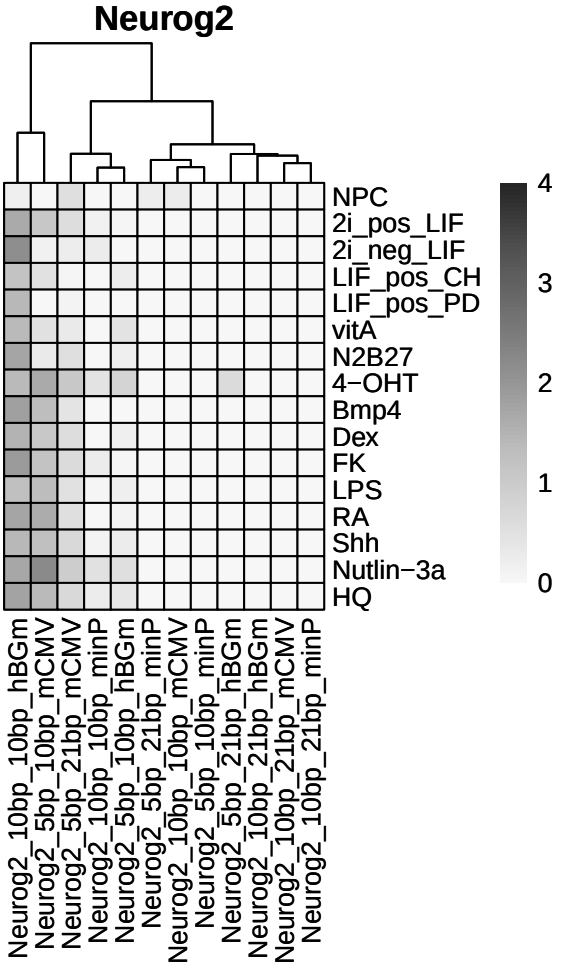
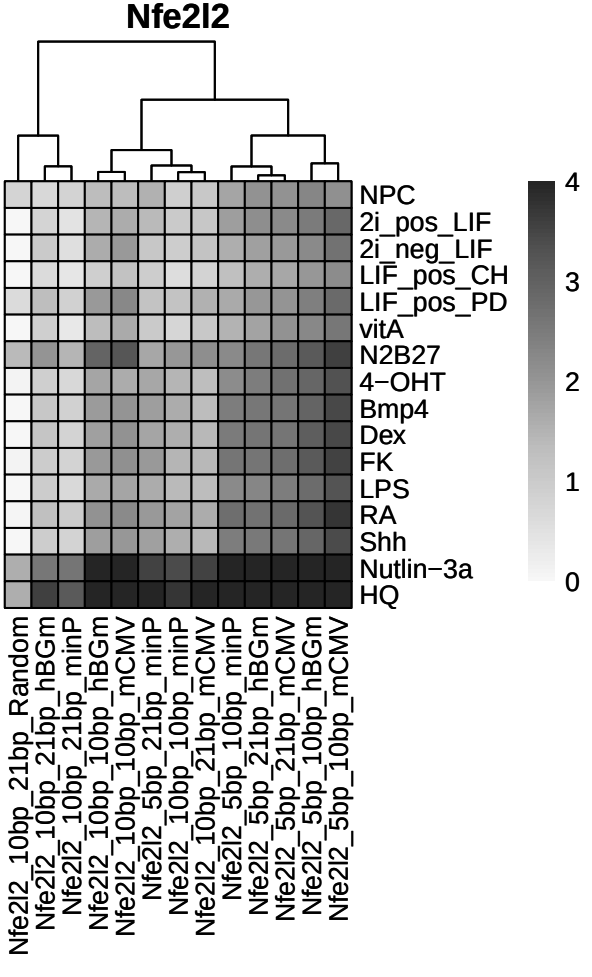
Homez_5bp_21bp_hBGm


Irf3
NPC
2i_pos_LIF
2i_neg_LIF
LIF_pos_CH
LIF_pos_PD
vitA
N2B27
4−OHT
Bmp4
Dex
FK
LPS
RA
Shh
Nutlin−3a
HQ
4
3
2
1
0
Irf3_10bp_10bp_minP
Irf3_10bp_21bp_mCMV
Irf3_10bp_21bp_hBGm
Irf3_10bp_21bp_minP
Irf3_10bp_10bp_mCMV
Irf3_10bp_21bp_Random
Irf3_5bp_21bp_mCMV
Irf3_5bp_10bp_mCMV
Irf3_5bp_21bp_hBGm
Irf3_10bp_10bp_hBGm
Irf3_5bp_10bp_hBGm
Irf3_5bp_10bp_minP
Irf3_5bp_21bp_minP


Irx3
NPC
2i_pos_LIF
2i_neg_LIF
LIF_pos_CH
LIF_pos_PD
vitA
N2B27
4−OHT
Bmp4
Dex
FK
LPS
RA
Shh
Nutlin−3a
HQ
4
3
2
1
0
Irx3_5bp_10bp_mCMV
Irx3_5bp_21bp_mCMV
Irx3_10bp_10bp_hBGm
Irx3_10bp_21bp_mCMV
Irx3_5bp_21bp_hBGm
Irx3_10bp_21bp_hBGm
Irx3_10bp_10bp_minP
Irx3_5bp_10bp_hBGm
Irx3_5bp_21bp_minP
Irx3_10bp_10bp_mCMV
Irx3_5bp_10bp_minP


Klf4
NPC
2i_pos_LIF
2i_neg_LIF
LIF_pos_CH
LIF_pos_PD
vitA
N2B27
4−OHT
Bmp4
Dex
FK
LPS
RA
Shh
Nutlin−3a
HQ
4
3
2
1
0
Klf4_5bp_21bp_minP
Klf4_10bp_21bp_minP
Klf4_5bp_10bp_minP
Klf4_10bp_21bp_mCMV
Klf4_10bp_10bp_hBGm
Klf4_10bp_21bp_Random
Klf4_5bp_21bp_hBGm
Klf4_10bp_10bp_mCMV
Klf4_10bp_21bp_hBGm
Klf4_10bp_10bp_minP
Klf4_5bp_10bp_mCMV
Klf4_5bp_10bp_hBGm
Klf4_5bp_21bp_mCMV


Neurog2
NPC
2i_pos_LIF
2i_neg_LIF
LIF_pos_CH
LIF_pos_PD
vitA
N2B27
4−OHT
Bmp4
Dex
FK
LPS
RA
Shh
Nutlin−3a
HQ
4
3
2
1
0
Neurog2_10bp_10bp_hBGm
Neurog2_5bp_10bp_mCMV
Neurog2_5bp_21bp_mCMV
Neurog2_10bp_10bp_minP
Neurog2_5bp_10bp_hBGm
Neurog2_5bp_21bp_minP
Neurog2_10bp_10bp_mCMV
Neurog2_5bp_10bp_minP
Neurog2_5bp_21bp_hBGm
Neurog2_10bp_21bp_hBGm
Neurog2_10bp_21bp_mCMV
Neurog2_10bp_21bp_minP


Nfe2l2
NPC
2i_pos_LIF
2i_neg_LIF
LIF_pos_CH
LIF_pos_PD
vitA
N2B27
4−OHT
Bmp4
Dex
FK
LPS
RA
Shh
Nutlin−3a
HQ
4
3
2
1
0
Nfe2l2_10bp_21bp_Random
Nfe2l2_10bp_21bp_hBGm
Nfe2l2_10bp_21bp_minP
Nfe2l2_10bp_10bp_hBGm
Nfe2l2_10bp_10bp_mCMV
Nfe2l2_5bp_21bp_minP
Nfe2l2_10bp_10bp_minP
Nfe2l2_10bp_21bp_mCMV
Nfe2l2_5bp_10bp_minP
Nfe2l2_5bp_21bp_hBGm
Nfe2l2_5bp_21bp_mCMV
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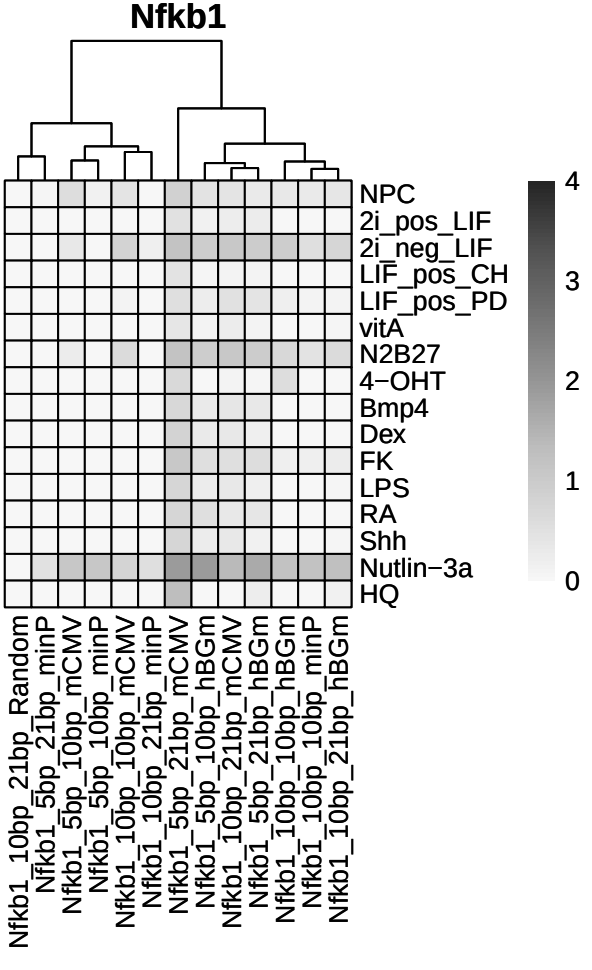
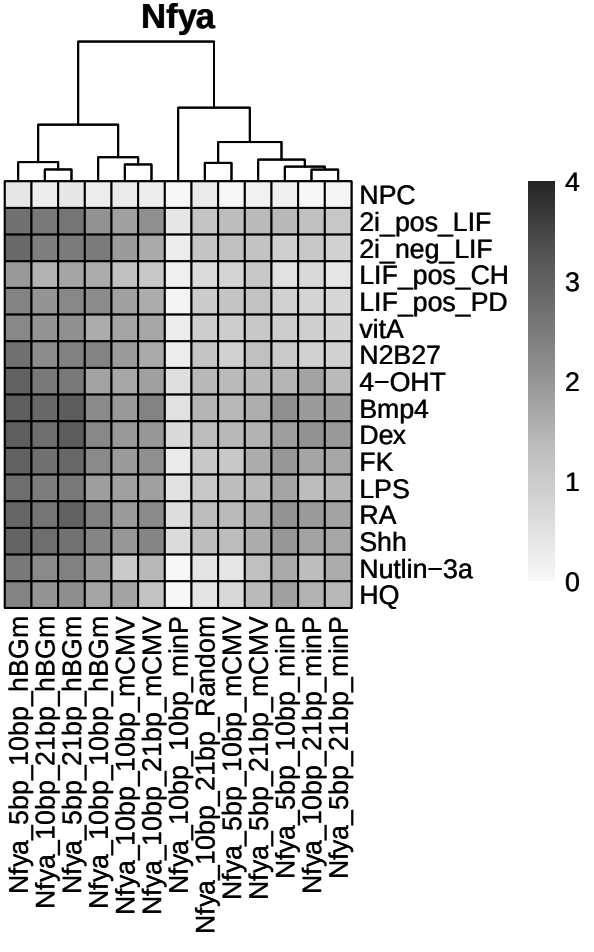
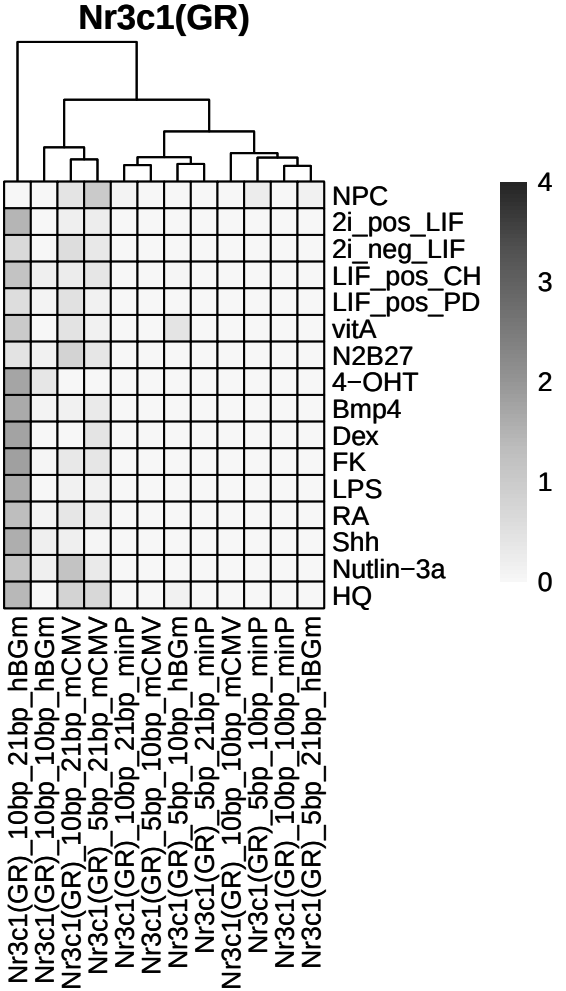
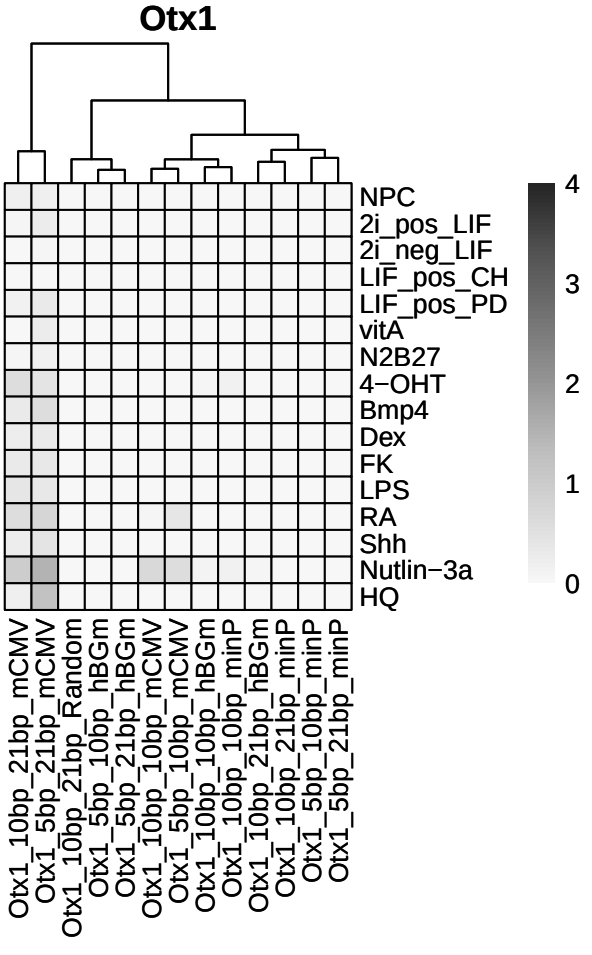
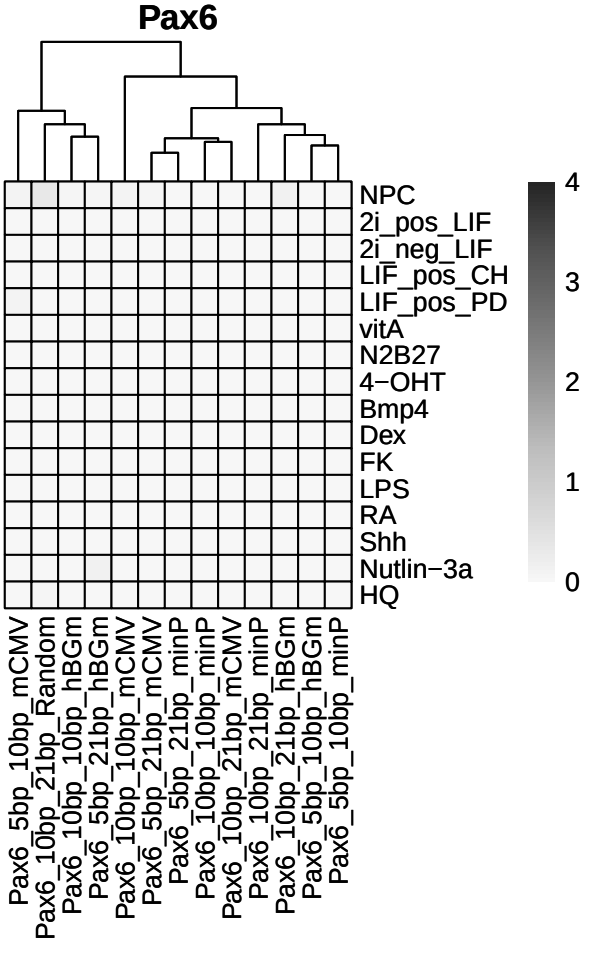
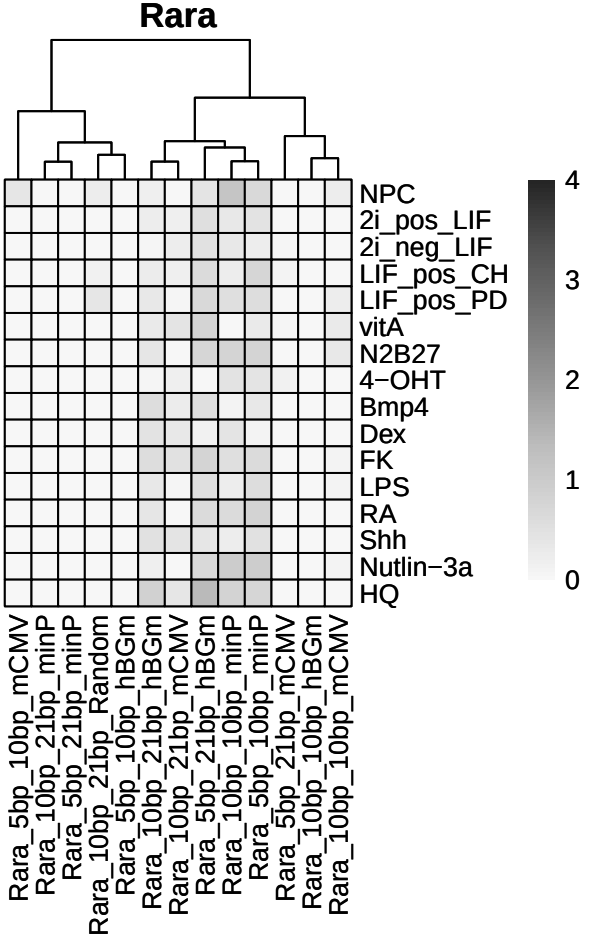

Nfkb1
NPC
2i_pos_LIF
2i_neg_LIF
LIF_pos_CH
LIF_pos_PD
vitA
N2B27
4−OHT
Bmp4
Dex
FK
LPS
RA
Shh
Nutlin−3a
HQ
4
3
2
1
0
Nfkb1_10bp_21bp_Random
Nfkb1_5bp_21bp_minP
Nfkb1_5bp_10bp_mCMV
Nfkb1_5bp_10bp_minP
Nfkb1_10bp_10bp_mCMV
Nfkb1_10bp_21bp_minP
Nfkb1_5bp_21bp_mCMV
Nfkb1_5bp_10bp_hBGm
Nfkb1_10bp_21bp_mCMV
Nfkb1_5bp_21bp_hBGm
Nfkb1_10bp_10bp_hBGm
Nfkb1_10bp_10bp_minP
Nfkb1_10bp_21bp_hBGm

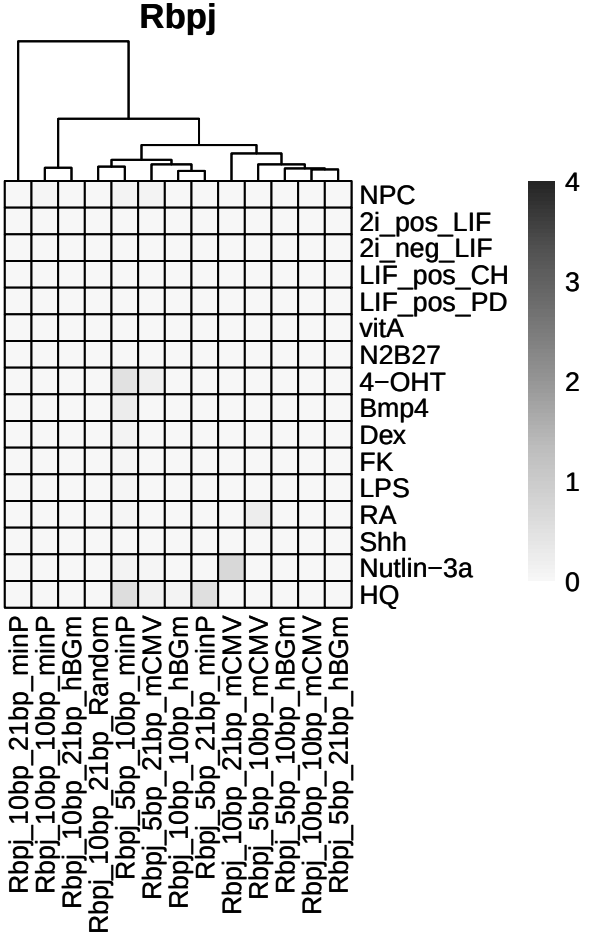

Nfya
NPC
2i_pos_LIF
2i_neg_LIF
LIF_pos_CH
LIF_pos_PD
vitA
N2B27
4−OHT
Bmp4
Dex
FK
LPS
RA
Shh
Nutlin−3a
HQ
4
3
2
1
0
Nfya_5bp_10bp_hBGm
Nfya_10bp_21bp_hBGm
Nfya_5bp_21bp_hBGm
Nfya_10bp_10bp_hBGm
Nfya_10bp_10bp_mCMV
Nfya_10bp_21bp_mCMV
Nfya_10bp_10bp_minP
Nfya_10bp_21bp_Random
Nfya_5bp_10bp_mCMV
Nfya_5bp_21bp_mCMV
Nfya_5bp_10bp_minP
Nfya_10bp_21bp_minP
Nfya_5bp_21bp_minP

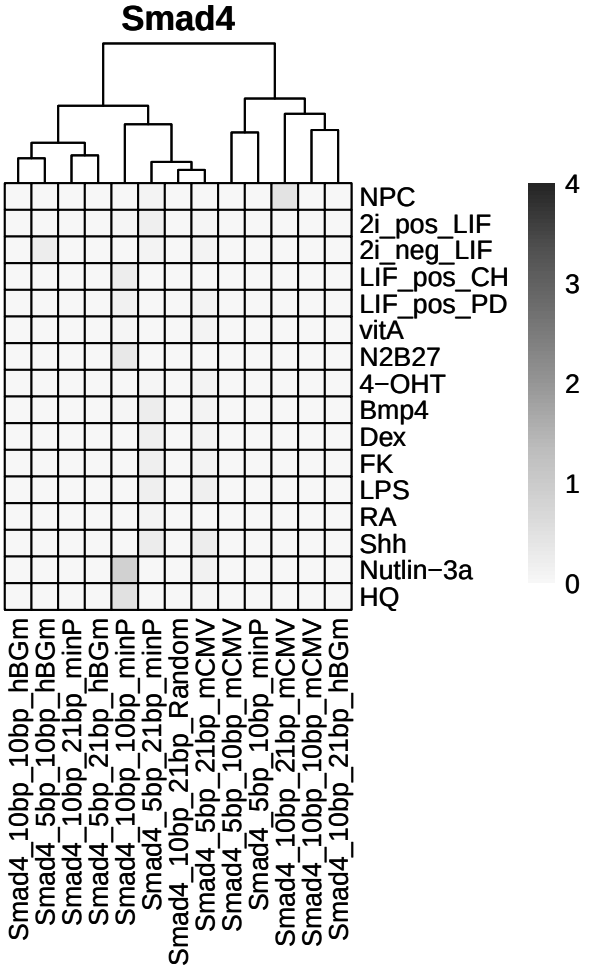

Nr3c1(GR)
NPC
2i_pos_LIF
2i_neg_LIF
LIF_pos_CH
LIF_pos_PD
vitA
N2B27
4−OHT
Bmp4
Dex
FK
LPS
RA
Shh
Nutlin−3a
HQ
4
3
2
1
0
Nr3c1(GR)_10bp_21bp_hBGm
Nr3c1(GR)_10bp_10bp_hBGm
Nr3c1(GR)_10bp_21bp_mCMV
Nr3c1(GR)_5bp_21bp_mCMV
Nr3c1(GR)_10bp_21bp_minP
Nr3c1(GR)_5bp_10bp_mCMV
Nr3c1(GR)_5bp_10bp_hBGm
Nr3c1(GR)_5bp_21bp_minP
Nr3c1(GR)_10bp_10bp_mCMV
Nr3c1(GR)_5bp_10bp_minP
Nr3c1(GR)_10bp_10bp_minP
Nr3c1(GR)_5bp_21bp_hBGm

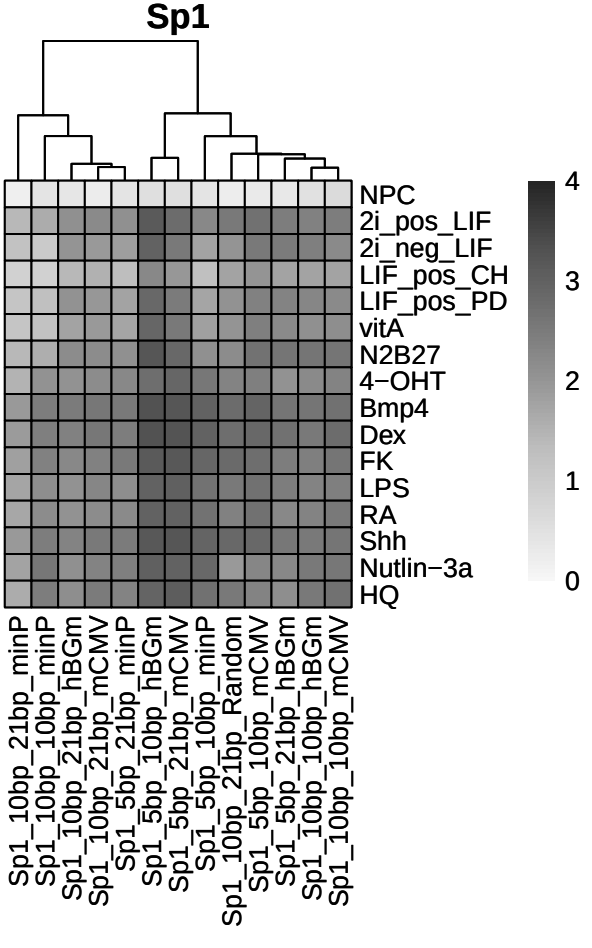

Otx1
NPC
2i_pos_LIF
2i_neg_LIF
LIF_pos_CH
LIF_pos_PD
vitA
N2B27
4−OHT
Bmp4
Dex
FK
LPS
RA
Shh
Nutlin−3a
HQ
4
3
2
1
0
Otx1_10bp_21bp_mCMV
Otx1_5bp_21bp_mCMV
Otx1_10bp_21bp_Random
Otx1_5bp_10bp_hBGm
Otx1_5bp_21bp_hBGm
Otx1_10bp_10bp_mCMV
Otx1_5bp_10bp_mCMV
Otx1_10bp_10bp_hBGm
Otx1_10bp_10bp_minP
Otx1_10bp_21bp_hBGm
Otx1_10bp_21bp_minP
Otx1_5bp_10bp_minP
Otx1_5bp_21bp_minP

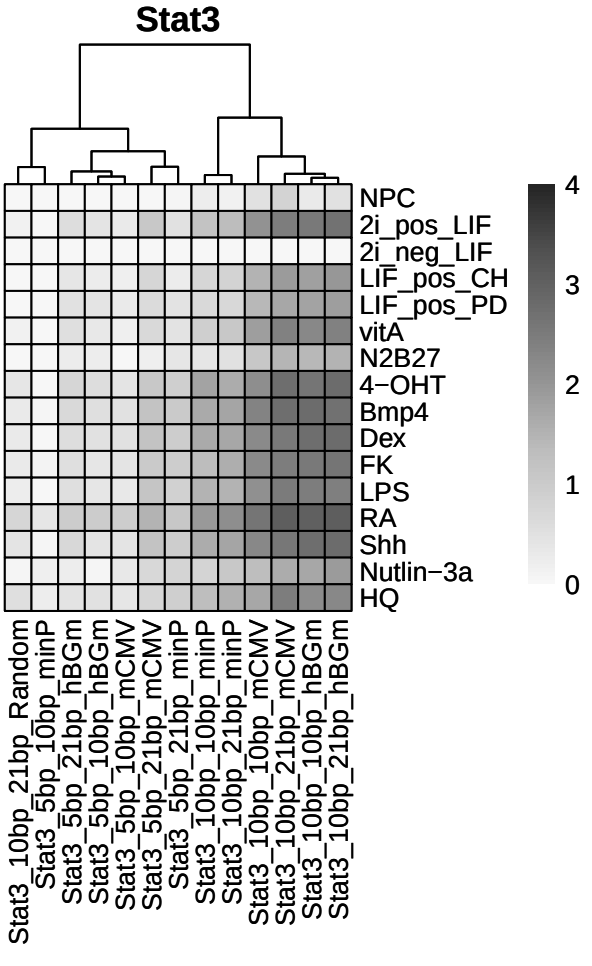

Pax6
NPC
2i_pos_LIF
2i_neg_LIF
LIF_pos_CH
LIF_pos_PD
vitA
N2B27
4−OHT
Bmp4
Dex
FK
LPS
RA
Shh
Nutlin−3a
HQ
4
3
2
1
0
Pax6_5bp_10bp_mCMV
Pax6_10bp_21bp_Random
Pax6_10bp_10bp_hBGm
Pax6_5bp_21bp_hBGm
Pax6_10bp_10bp_mCMV
Pax6_5bp_21bp_mCMV
Pax6_5bp_21bp_minP
Pax6_10bp_10bp_minP
Pax6_10bp_21bp_mCMV
Pax6_10bp_21bp_minP
Pax6_10bp_21bp_hBGm
Pax6_5bp_10bp_hBGm
Pax6_5bp_10bp_minP

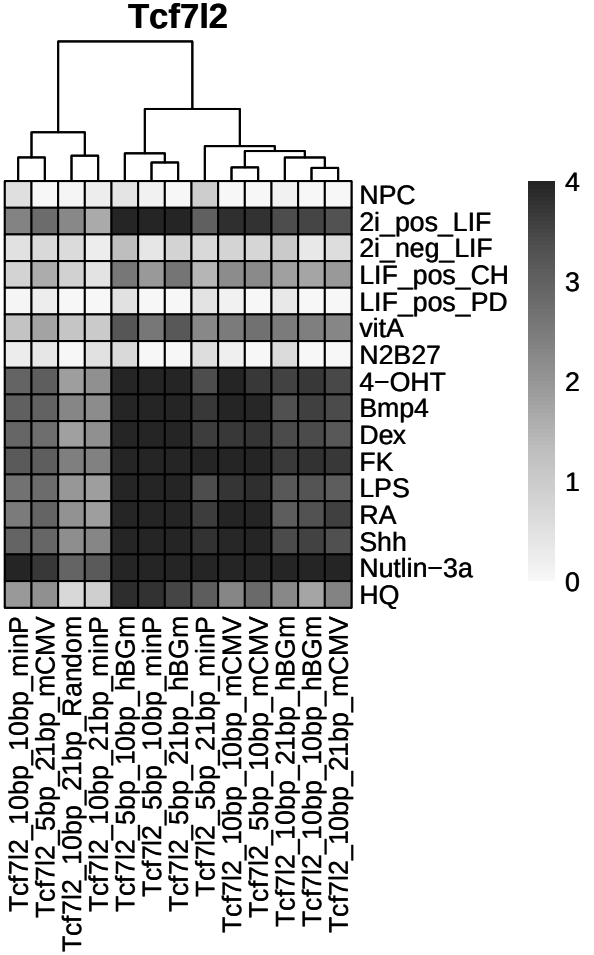

Rara
NPC
2i_pos_LIF
2i_neg_LIF
LIF_pos_CH
LIF_pos_PD
vitA
N2B27
4−OHT
Bmp4
Dex
FK
LPS
RA
Shh
Nutlin−3a
HQ
Rara_5bp_10bp_mCMV
Rara_10bp_21bp_minP
Rara_5bp_21bp_minP
Rara_10bp_21bp_Random
Rara_5bp_10bp_hBGm
Rara_10bp_21bp_hBGm
Rara_10bp_21bp_mCMV
Rara_5bp_21bp_hBGm
Rara_10bp_10bp_minP
Rara_5bp_10bp_minP
Rara_5bp_21bp_mCMV
Rara_10bp_10bp_hBGm
Rara_10bp_10bp_mCMV
4
3
2
1
0

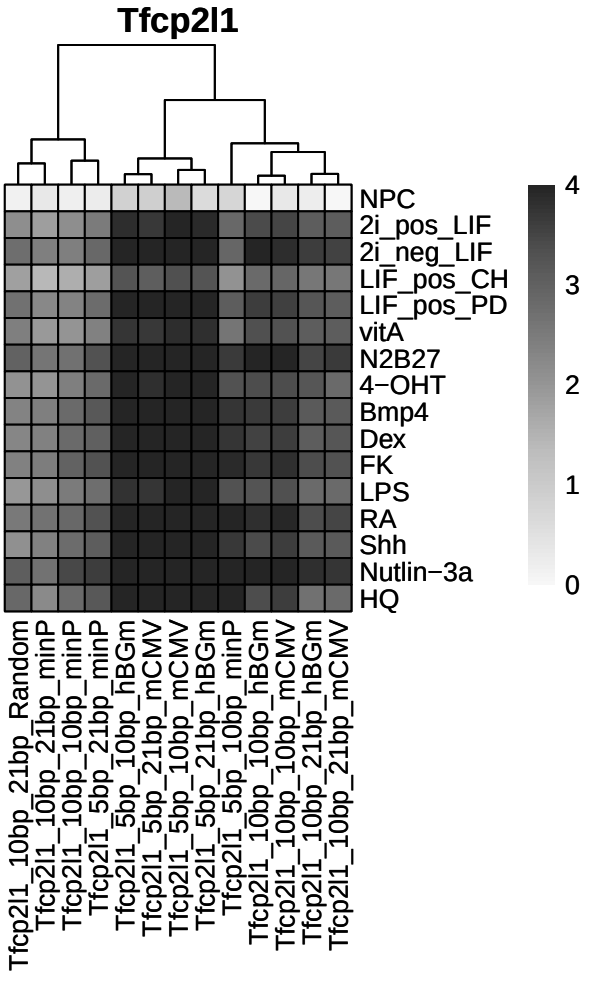

Rbpj
NPC
2i_pos_LIF
2i_neg_LIF
LIF_pos_CH
LIF_pos_PD
vitA
N2B27
4−OHT
Bmp4
Dex
FK
LPS
RA
Shh
Nutlin−3a
HQ
4
3
2
1
0
Rbpj_10bp_21bp_minP
Rbpj_10bp_10bp_minP
Rbpj_10bp_21bp_hBGm
Rbpj_10bp_21bp_Random
Rbpj_5bp_10bp_minP
Rbpj_5bp_21bp_mCMV
Rbpj_10bp_10bp_hBGm
Rbpj_5bp_21bp_minP
Rbpj_10bp_21bp_mCMV
Rbpj_5bp_10bp_mCMV
Rbpj_5bp_10bp_hBGm
Rbpj_10bp_10bp_mCMV
Rbpj_5bp_21bp_hBGm

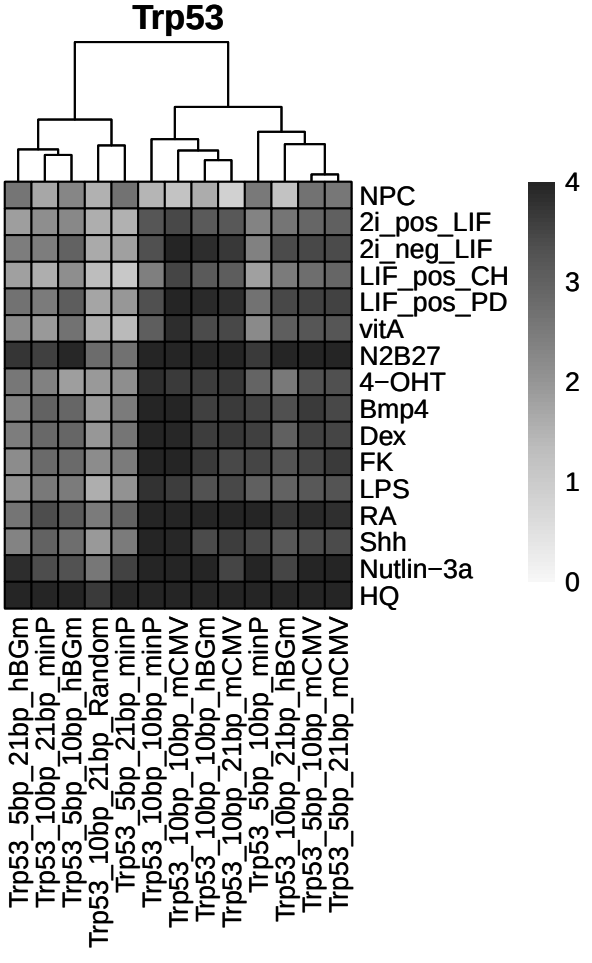

Smad4
NPC
2i_pos_LIF
2i_neg_LIF
LIF_pos_CH
LIF_pos_PD
vitA
N2B27
4−OHT
Bmp4
Dex
FK
LPS
RA
Shh
Nutlin−3a
HQ
4
3
2
1
0
Smad4_10bp_10bp_hBGm
Smad4_5bp_10bp_hBGm
Smad4_10bp_21bp_minP
Smad4_5bp_21bp_hBGm
Smad4_10bp_10bp_minP
Smad4_5bp_21bp_minP
Smad4_10bp_21bp_Random
Smad4_5bp_21bp_mCMV
Smad4_5bp_10bp_mCMV
Smad4_5bp_10bp_minP
Smad4_10bp_21bp_mCMV
Smad4_10bp_10bp_mCMV
Smad4_10bp_21bp_hBGm

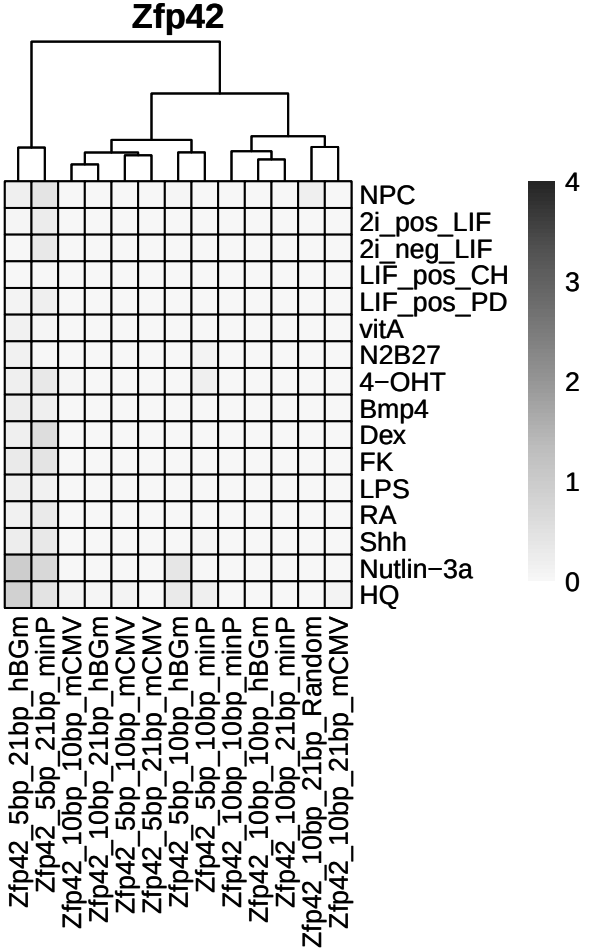

Sp1
NPC
2i_pos_LIF
2i_neg_LIF
LIF_pos_CH
LIF_pos_PD
vitA
N2B27
4−OHT
Bmp4
Dex
FK
LPS
RA
Shh
Nutlin−3a
HQ
4
3
2
1
0
Sp1_10bp_21bp_minP
Sp1_10bp_10bp_minP
Sp1_10bp_21bp_hBGm
Sp1_10bp_21bp_mCMV
Sp1_5bp_21bp_minP
Sp1_5bp_10bp_hBGm
Sp1_5bp_21bp_mCMV
Sp1_5bp_10bp_minP
Sp1_10bp_21bp_Random
Sp1_5bp_10bp_mCMV
Sp1_5bp_21bp_hBGm
Sp1_10bp_10bp_hBGm
Sp1_10bp_10bp_mCMV

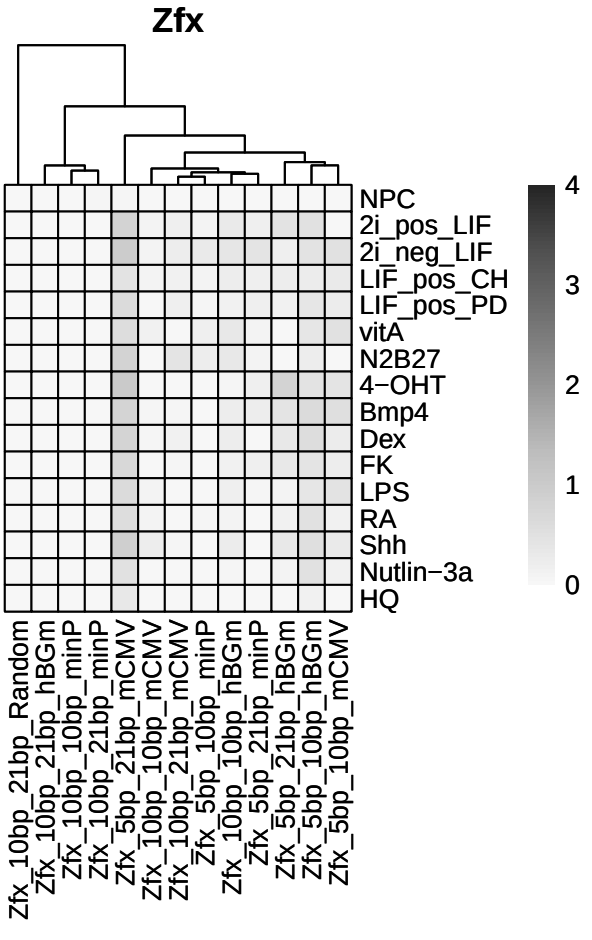

Stat3
NPC
2i_pos_LIF
2i_neg_LIF
LIF_pos_CH
LIF_pos_PD
vitA
N2B27
4−OHT
Bmp4
Dex
FK
LPS
RA
Shh
Nutlin−3a
HQ
4
3
2
1
0
Stat3_10bp_21bp_Random
Stat3_5bp_10bp_minP
Stat3_5bp_21bp_hBGm
Stat3_5bp_10bp_hBGm
Stat3_5bp_10bp_mCMV
Stat3_5bp_21bp_mCMV
Stat3_5bp_21bp_minP
Stat3_10bp_10bp_minP
Stat3_10bp_21bp_minP
Stat3_10bp_10bp_mCMV
Stat3_10bp_21bp_mCMV
Stat3_10bp_10bp_hBGm
Stat3_10bp_21bp_hBGm


Tcf7l2
NPC
2i_pos_LIF
2i_neg_LIF
LIF_pos_CH
LIF_pos_PD
vitA
N2B27
4−OHT
Bmp4
Dex
FK
LPS
RA
Shh
Nutlin−3a
HQ
4
3
2
1
0
Tcf7l2_10bp_10bp_minP
Tcf7l2_5bp_21bp_mCMV
Tcf7l2_10bp_21bp_Random
Tcf7l2_10bp_21bp_minP
Tcf7l2_5bp_10bp_hBGm
Tcf7l2_5bp_10bp_minP
Tcf7l2_5bp_21bp_hBGm
Tcf7l2_5bp_21bp_minP
Tcf7l2_10bp_10bp_mCMV
Tcf7l2_5bp_10bp_mCMV
Tcf7l2_10bp_21bp_hBGm
Tcf7l2_10bp_10bp_hBGm
Tcf7l2_10bp_21bp_mCMV


Tfcp2l1
NPC
2i_pos_LIF
2i_neg_LIF
LIF_pos_CH
LIF_pos_PD
vitA
N2B27
4−OHT
Bmp4
Dex
FK
LPS
RA
Shh
Nutlin−3a
HQ
4
3
2
1
0
Tfcp2l1_10bp_21bp_Random
Tfcp2l1_10bp_21bp_minP
Tfcp2l1_10bp_10bp_minP
Tfcp2l1_5bp_21bp_minP
Tfcp2l1_5bp_10bp_hBGm
Tfcp2l1_5bp_21bp_mCMV
Tfcp2l1_5bp_10bp_mCMV
Tfcp2l1_5bp_21bp_hBGm
Tfcp2l1_5bp_10bp_minP
Tfcp2l1_10bp_10bp_hBGm
Tfcp2l1_10bp_10bp_mCMV
Tfcp2l1_10bp_21bp_hBGm
Tfcp2l1_10bp_21bp_mCMV


Trp53
NPC
2i_pos_LIF
2i_neg_LIF
LIF_pos_CH
LIF_pos_PD
vitA
N2B27
4−OHT
Bmp4
Dex
FK
LPS
RA
Shh
Nutlin−3a
HQ
4
3
2
1
0
Trp53_5bp_21bp_hBGm
Trp53_10bp_21bp_minP
Trp53_5bp_10bp_hBGm
Trp53_10bp_21bp_Random
Trp53_5bp_21bp_minP
Trp53_10bp_10bp_minP
Trp53_10bp_10bp_mCMV
Trp53_10bp_10bp_hBGm
Trp53_10bp_21bp_mCMV
Trp53_5bp_10bp_minP
Trp53_10bp_21bp_hBGm
Trp53_5bp_10bp_mCMV
Trp53_5bp_21bp_mCMV


Zfp42
NPC
2i_pos_LIF
2i_neg_LIF
LIF_pos_CH
LIF_pos_PD
vitA
N2B27
4−OHT
Bmp4
Dex
FK
LPS
RA
Shh
Nutlin−3a
HQ
4
3
2
1
0
Zfp42_5bp_21bp_hBGm
Zfp42_5bp_21bp_minP
Zfp42_10bp_10bp_mCMV
Zfp42_10bp_21bp_hBGm
Zfp42_5bp_10bp_mCMV
Zfp42_5bp_21bp_mCMV
Zfp42_5bp_10bp_hBGm
Zfp42_5bp_10bp_minP
Zfp42_10bp_10bp_minP
Zfp42_10bp_10bp_hBGm
Zfp42_10bp_21bp_minP
Zfp42_10bp_21bp_Random
Zfp42_10bp_21bp_mCMV


Zfx
NPC
2i_pos_LIF
2i_neg_LIF
LIF_pos_CH
LIF_pos_PD
vitA
N2B27
4−OHT
Bmp4
Dex
FK
LPS
RA
Shh
Nutlin−3a
HQ
4
3
2
1
0
Zfx_10bp_21bp_Random
Zfx_10bp_21bp_hBGm
Zfx_10bp_10bp_minP
Zfx_10bp_21bp_minP
Zfx_5bp_21bp_mCMV
Zfx_10bp_10bp_mCMV
Zfx_10bp_21bp_mCMV
Zfx_5bp_10bp_minP
Zfx_10bp_10bp_hBGm
Zfx_5bp_21bp_minP
Zfx_5bp_21bp_hBGm
Zfx_5bp_10bp_hBGm
Zfx_5bp_10bp_mCMV