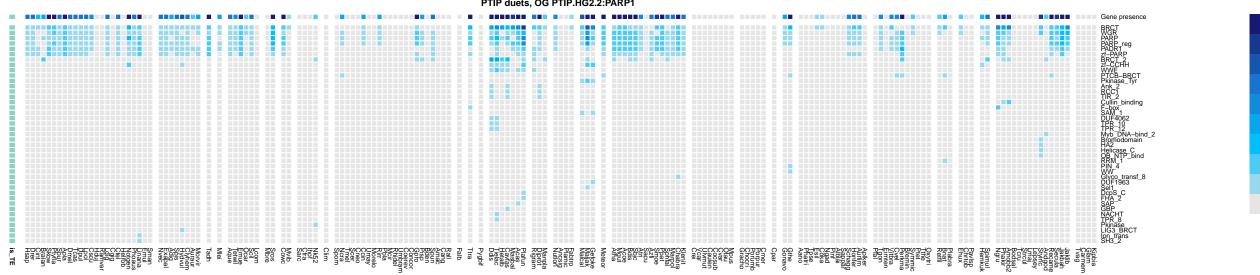
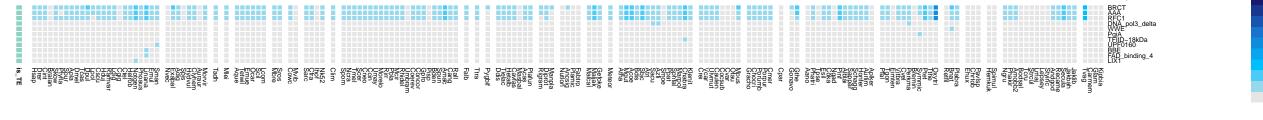
#### PTIP duets, OG PTIP.HG2.2:PARP1

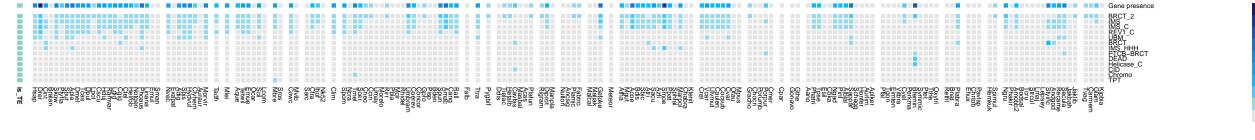


# PTIP duets, OG PTIP.HG3.4:RFC1

Gene presence



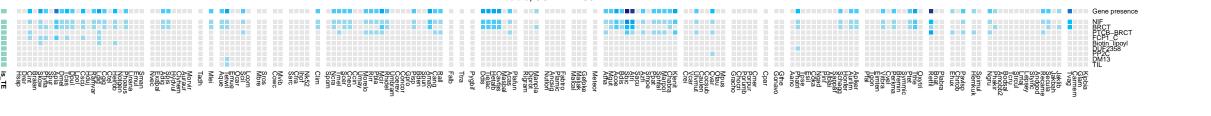
### PTIP duets, OG PTIP.HG4.0:REV1



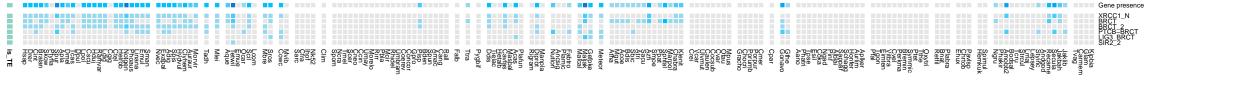
# PTIP duets, OG PTIP.HG5.0:LIG4



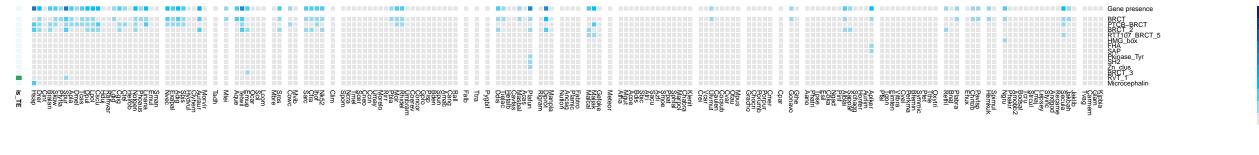
#### PTIP duets, OG PTIP.HG6.1:NA



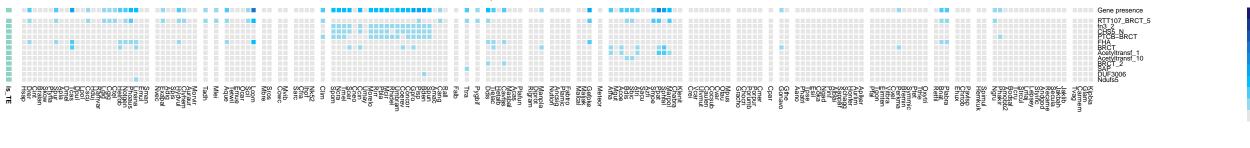
#### PTIP duets, OG PTIP.HG1.28:XRCC1



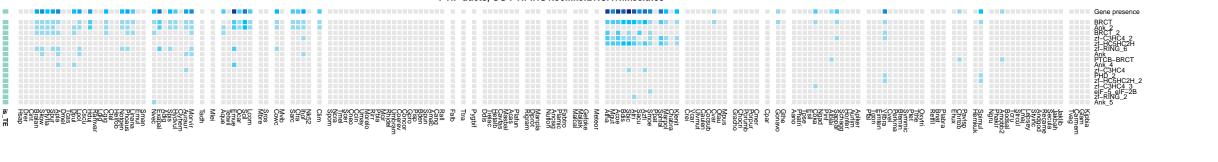
# PTIP duets, OG PTIP.HG1.25:MCPH1



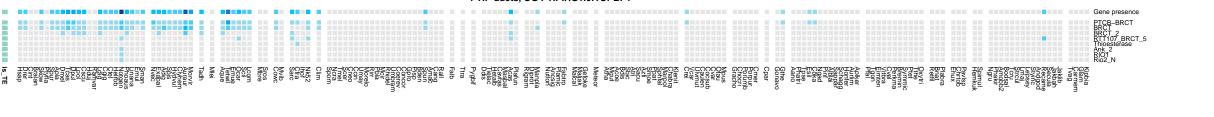
### PTIP duets, OG PTIP.HG1.23:like:PAXIP1:likeclu:31



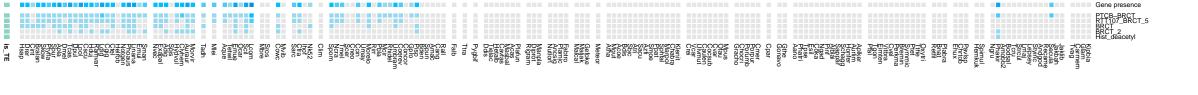
#### PTIP duets, OG PTIP.HG1.36:like:BRCA1:likeclu:33



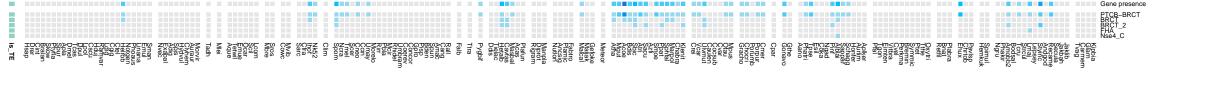
#### PTIP duets, OG PTIP.HG1.0:TOPBP1



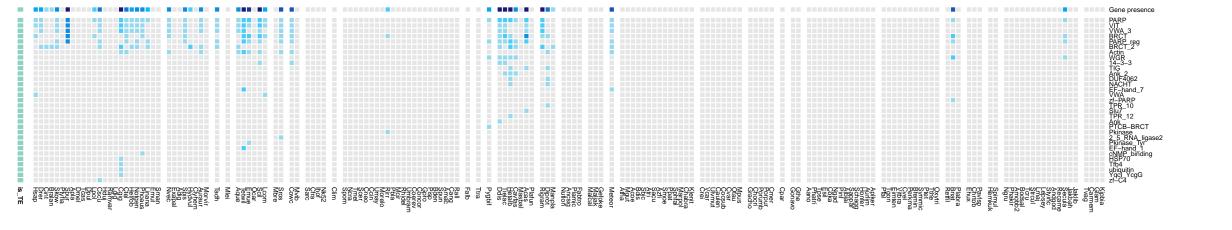




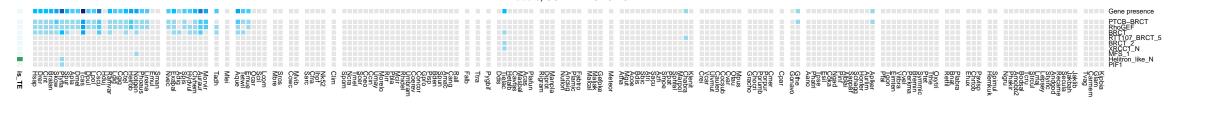
# PTIP duets, OG PTIP.HG1.14:like:ECT2:likeclu:9



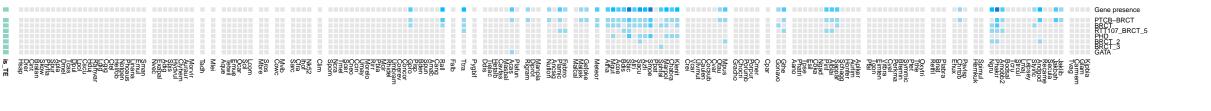
#### PTIP duets, OG PTIP.HG2.0:PARP4



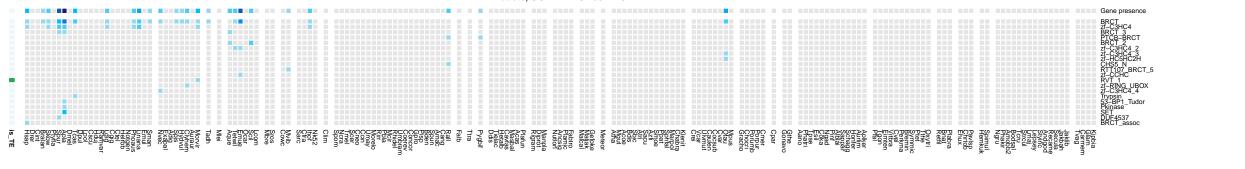
### PTIP duets, OG PTIP.HG1.9:ECT2



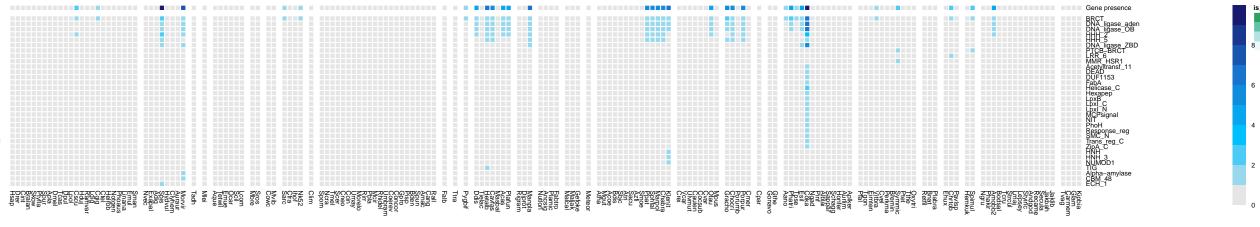
# PTIP duets, OG PTIP.HG1.4:like:BRCA1/ECT2/MCPH1/PAXIP1/XRCC1:likeclu:9/25/28/31/33



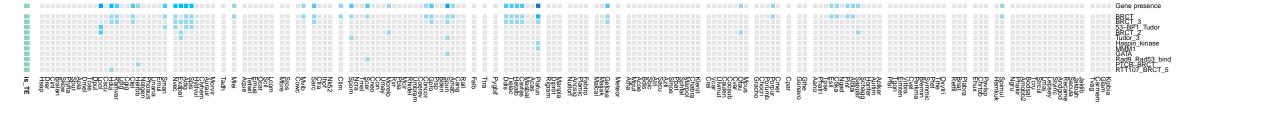
### PTIP duets, OG PTIP.HG1.33:BRCA1



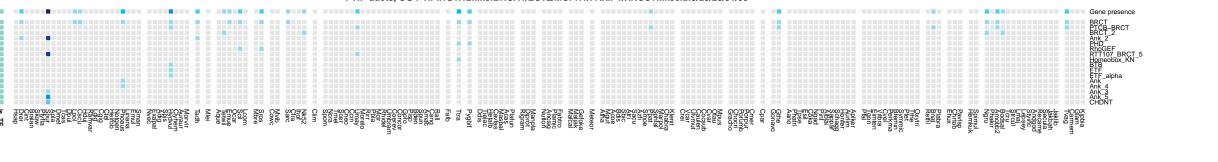
# PTIP duets, OG PTIP.HG3.0:like:RFC1:likeclu:4



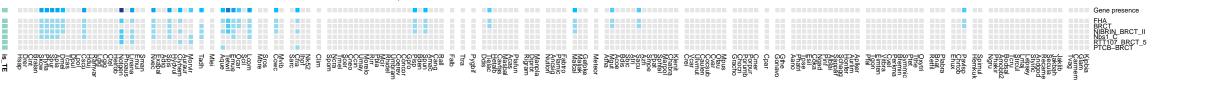
### PTIP duets, OG PTIP.HG1.24:like:BRCA1/MCPH1/XRCC1:likeclu:25/28/33



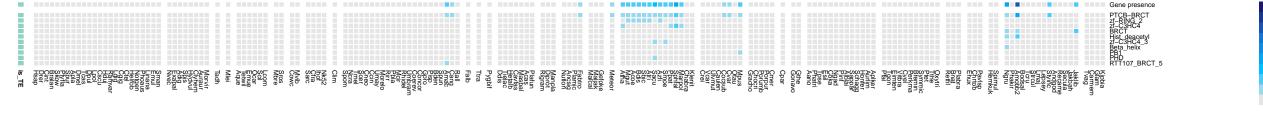
#### PTIP duets, OG PTIP.HG1.12:like:BRCA1/ECT2/MCPH1/PAXIP1/XRCC1:likeclu:9/25/28/31/33



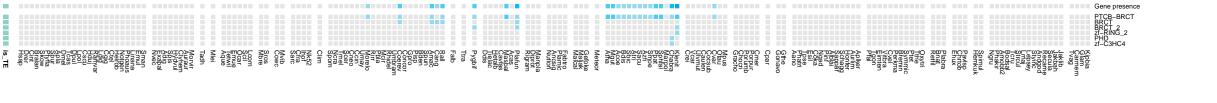
#### PTIP duets, OG PTIP.HG1.11:like:BRCA1/ECT2/MCPH1/PAXIP1/XRCC1:likeclu:9/25/28/31/33



#### PTIP duets, OG PTIP.HG1.20:like:BRCA1/ECT2/MCPH1/PAXIP1/XRCC1:likeclu:9/25/28/31/33



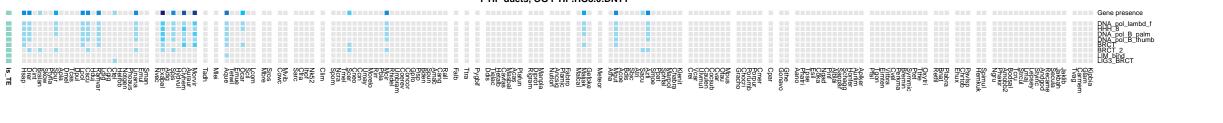
#### PTIP duets, OG PTIP.HG1.8:like:BRCA1/ECT2/MCPH1/PAXIP1/XRCC1:likeclu:9/25/28/31/33



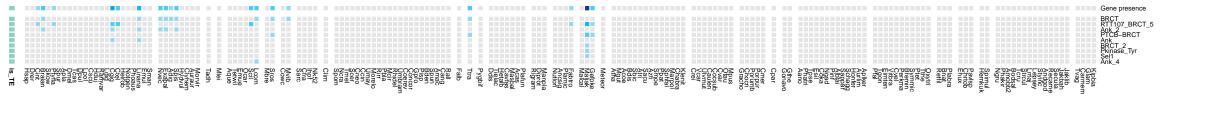
#### PTIP duets, OG PTIP.HG7.0:NA



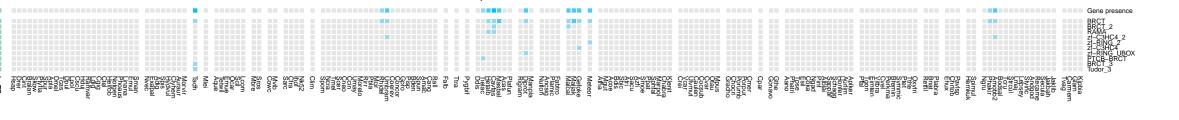
# PTIP duets, OG PTIP.HG8.0:DNTT

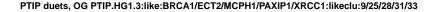


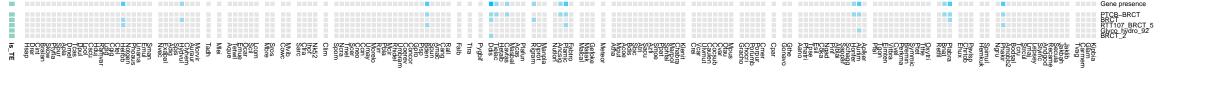
#### PTIP duets, OG PTIP.HG1.1:like:BRCA1/ECT2/MCPH1/PAXIP1/TOPBP1/XRCC1:likeclu:0/9/25/28/31/33



#### PTIP duets, OG PTIP.HG1.35:like:BRCA1:likeclu:33

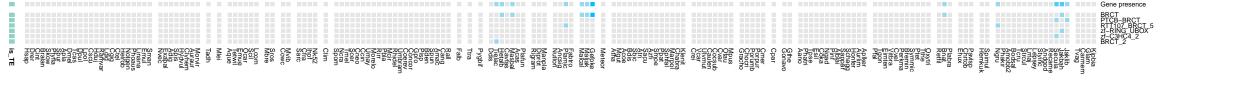








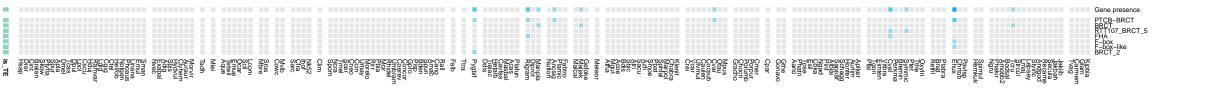
#### PTIP duets, OG PTIP.HG1.32:like:BRCA1:likeclu:33







# PTIP duets, OG PTIP.HG1.7:like:BRCA1/ECT2/MCPH1/PAXIP1/XRCC1:likeclu:9/25/28/31/33



# PTIP duets, OG PTIP.HG1.16:like:BRCA1/ECT2/MCPH1/PAXIP1/XRCC1:likeclu:9/25/28/31/33



#### PTIP duets, OG PTIP.HG1.34:like:BRCA1:likeclu:33



# PTIP duets, OG PTIP.HG9.0:NA



# PTIP duets, OG PTIP.HG1.10:like:ECT2:likeclu:9



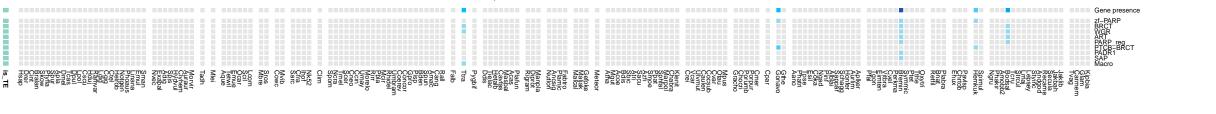
# PTIP duets, OG PTIP.HG1.6:like:BRCA1/ECT2/MCPH1/PAXIP1/XRCC1:likeclu:9/25/28/31/33



# PTIP duets, OG PTIP.HG1.5:like:BRCA1/ECT2/MCPH1/PAXIP1/XRCC1:likeclu:9/25/28/31/33



#### PTIP duets, OG PTIP.HG2.1:like:PARP1:likeclu:2



## PTIP duets, OG PTIP.HG3.1:like:RFC1:likeclu:4



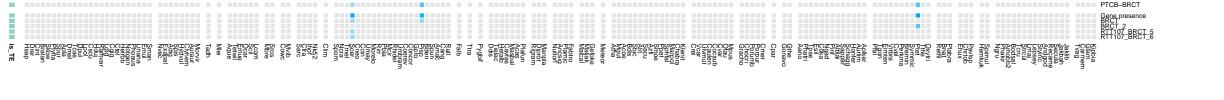
#### PTIP duets, OG PTIP.HG6.0:NA

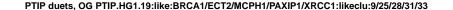


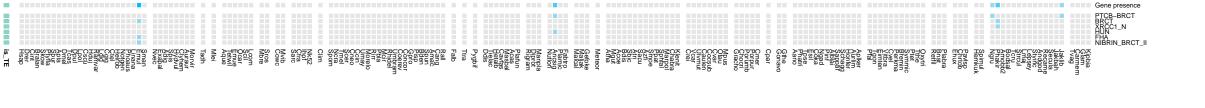
#### PTIP duets, OG PTIP.HG1.17:like:BRCA1/ECT2/MCPH1/PAXIP1/XRCC1:likeclu:9/25/28/31/33











## PTIP duets, OG PTIP.HG3.2:like:RFC1:likeclu:4



#### PTIP duets, OG PTIP.HG1.13:like:ECT2:likeclu:9



# PTIP duets, OG PTIP.HG1.22:like:PAXIP1:likeclu:31





#### PTIP duets, OG PTIP.HG1.26:like:PAXIP1:likeclu:31





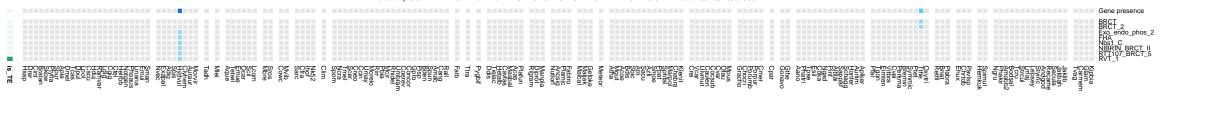
## PTIP duets, OG PTIP.HG1.30:like:PAXIP1:likeclu:31



#### PTIP duets, OG PTIP.HG3.3:like:RFC1:likeclu:4



#### PTIP duets. OG PTIP.HG1.15:like:BRCA1/ECT2/MCPH1/PAXIP1/XRCC1:likeclu:9/25/28/31/33



## PTIP duets, OG PTIP.HG1.21:like:PAXIP1:likeclu:31



# PTIP duets, OG PTIP.HG1.27:like:BRCA1/MCPH1/XRCC1:likeclu:25/28/33





## PTIP duets, OG PTIP.HG1.29:like:BRCA1:likeclu:33





# PTIP duets, OG PTIP.HG1.37:like:BRCA1/ECT2/MCPH1/PAXIP1/XRCC1:likeclu:9/25/28/31/33



# PTIP duets, OG PTIP.HG2.3:like:PARP1:likeclu:2



