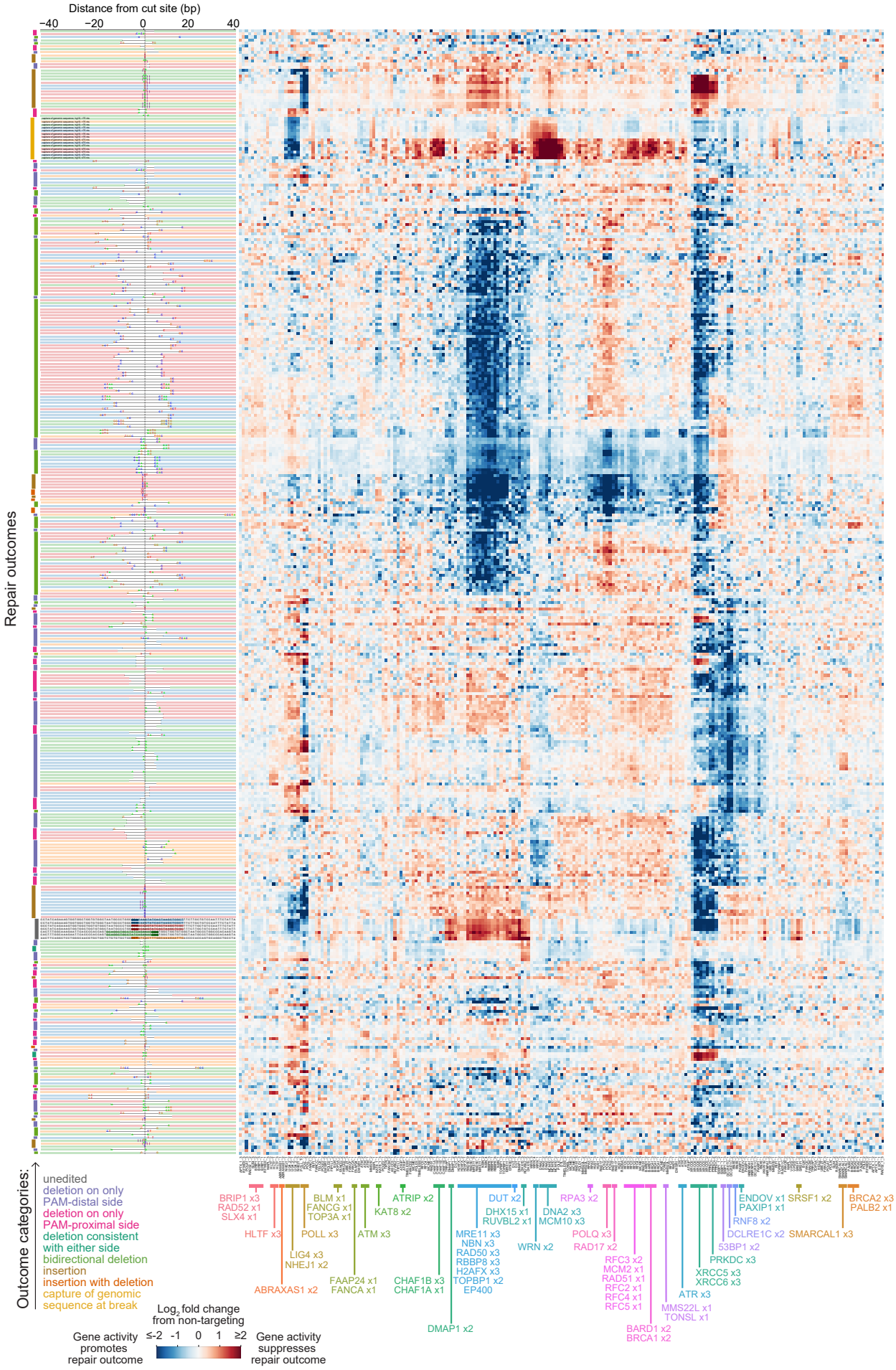
Distance from cut site (bp)
−40
−20
0
20
40
Repair outcomes
Outcome categories:
unedited
deletion on only PAM-distal side
deletion on only PAM-proximal side
deletion consistent with either side
bidirectional deletion
insertion
insertion with deletion
capture of genomic sequence at break
BRIP1 x3
RAD52 x1
SLX4 x1
HLTF x3
ABRAXAS1 x2
LIG4 x3
NHEJ1 x2
BLM x1
FANCG x1
TOP3A x1
POLL x3
FAAP24 x1
FANCA x1
KAT8 x2
ATM x3
ATRIP x2
CHAF1B x3
CHAF1A x1
DMAP1 x2
MRE11 x3
NBN x3
RAD50 x3
RBBP8 x3
H2AFX x3
TOPBP1 x2
EP400
DUT x2
DHX15 x1
RUVBL2 x1
WRN x2
DNA2 x3
MCM10 x3
RPA3 x2
POLQ x3
RAD17 x2
RFC3 x2
MCM2 x1
RAD51 x1
RFC2 x1
RFC4 x1
RFC5 x1
BARD1 x2
BRCA1 x2
MMS22L x1
TONSL x1
ATR x3
XRCC5 x3
XRCC6 x3
PRKDC x3
53BP1 x2
DCLRE1C x2
RNF8 x2
PAXIP1 x1
ENDOV x1
SRSF1 x2
SMARCAL1 x3
BRCA2 x3
PALB2 x1
Log2 fold change from non-targeting
Gene activity promotes repair outcome
≤-2
-1
0
1
≥2
Gene activity suppresses repair outcome