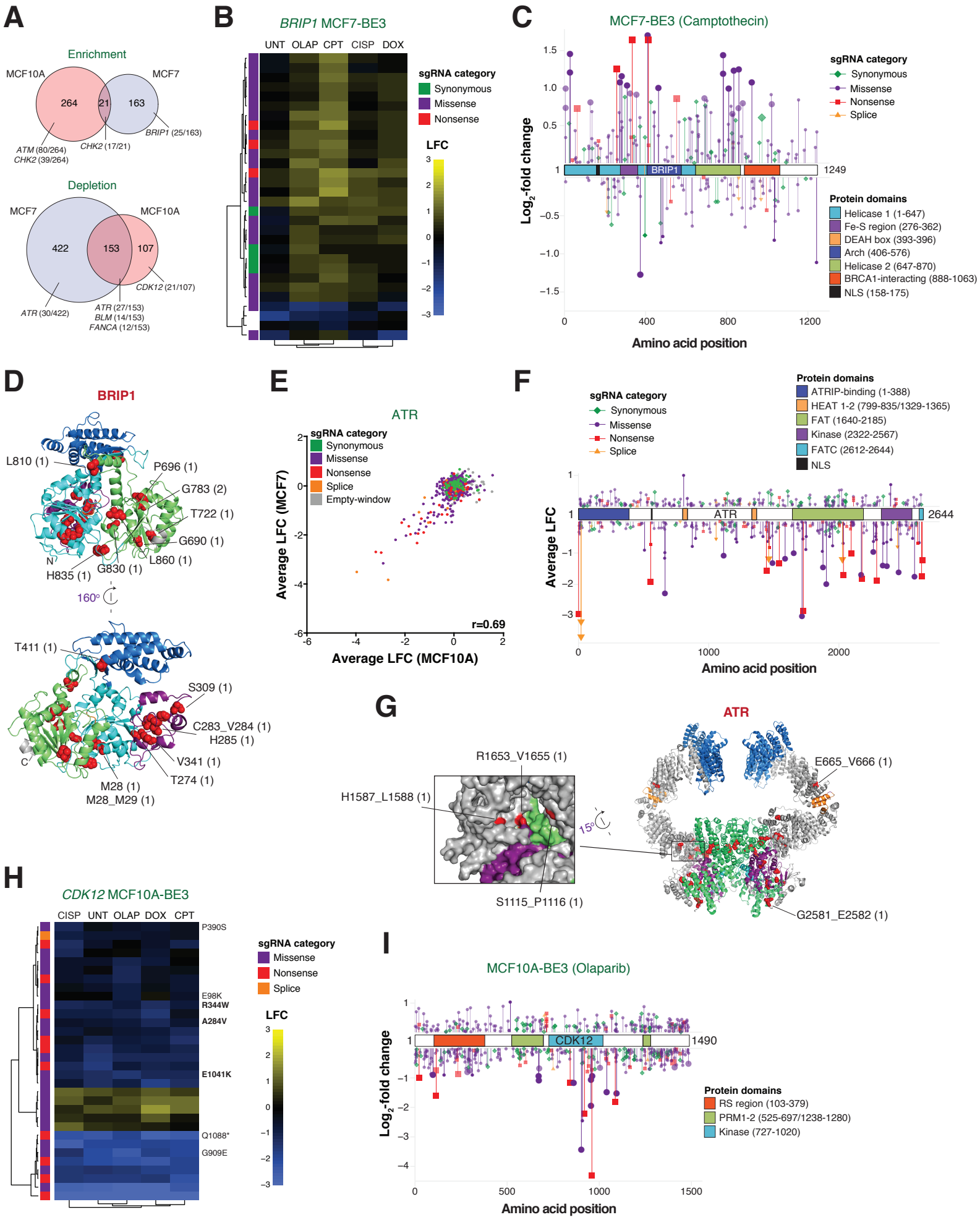
A
Enrichment
MCF10A
MCF7
264
21
163
BRIP1 (25/163)
ATM (80/264)
CHK2 (39/264)
CHK2 (17/21)
Depletion
MCF7
MCF10A
422
153
107
CDK12 (21/107)
ATR (30/422)
ATR (27/153)
BLM (14/153)
FANCA (12/153)
B
BRIP1 MCF7-BE3
UNT OLAP CPT CISP DOX
sgRNA category
Synonymous
Missense
Nonsense
LFC
C
MCF7-BE3 (Camptothecin)
sgRNA category
Synonymous
Missense
Nonsense
Splice
Log2-fold change
BRIP1
1249
Protein domains
Helicase 1 (1-647)
Fe-S region (276-362)
DEAH box (393-396)
Arch (406-576)
Helicase 2 (647-870)
BRCA1-interacting (888-1063)
NLS (158-175)
Amino acid position
D
BRIP1
L810 (1)
P696 (1)
G783 (2)
T722 (1)
G690 (1)
L860 (1)
G830 (1)
H835 (1)
N
160°
T411 (1)
S309 (1)
C283_V284 (1)
H285 (1)
V341 (1)
T274 (1)
M28 (1)
M28_M29 (1)
C
E
ATR
sgRNA category
Synonymous
Missense
Nonsense
Splice
Empty-window
Average LFC (MCF7)
Average LFC (MCF10A)
r=0.69
F
sgRNA category
Synonymous
Missense
Nonsense
Splice
Protein domains
ATRIP-binding (1-388)
HEAT 1-2 (799-835/1329-1365)
FAT (1640-2185)
Kinase (2322-2567)
FATC (2612-2644)
NLS
ATR
2644
Average LFC
Amino acid position
G
ATR
R1653_V1655 (1)
H1587_L1588 (1)
S1115_P1116 (1)
15°
E665_V666 (1)
G2581_E2582 (1)
H
CDK12 MCF10A-BE3
CISP UNT OLAP DOX CPT
P390S
E98K
R344W
A284V
E1041K
Q1088*
G909E
sgRNA category
Missense
Nonsense
Splice
LFC
I
MCF10A-BE3 (Olaparib)
Log2-fold change
CDK12
1490
Protein domains
RS region (103-379)
PRM1-2 (525-697/1238-1280)
Kinase (727-1020)
Amino acid position

Figure S6