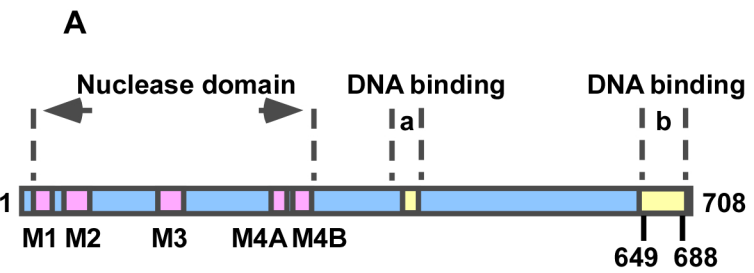
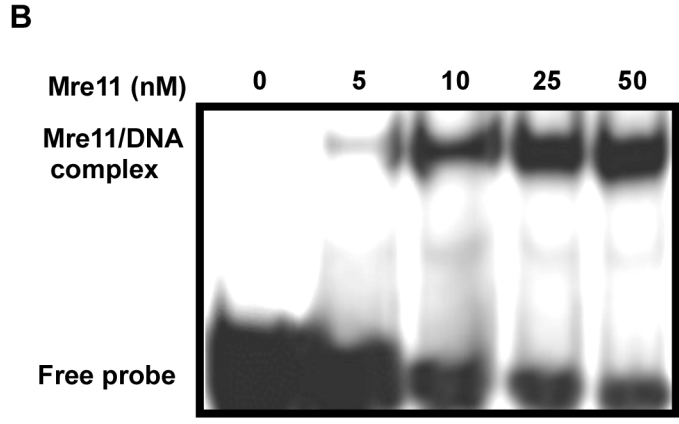
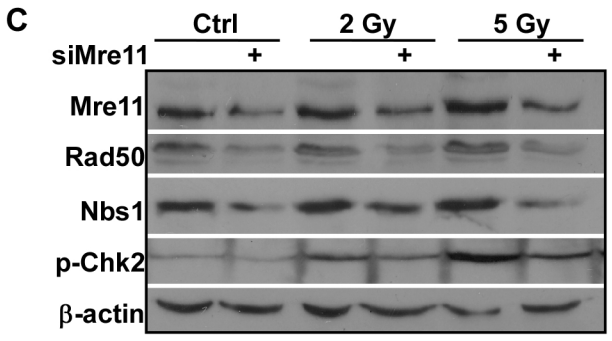
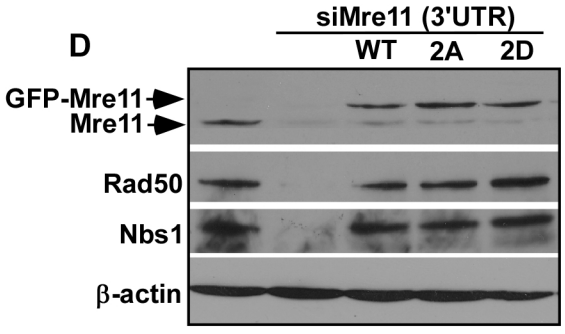
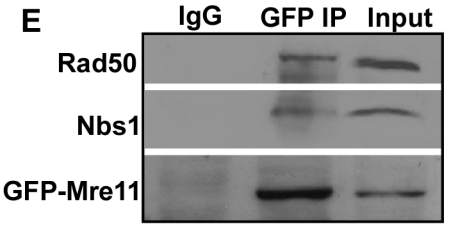
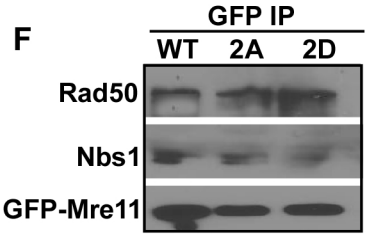

A
Nuclease domain
DNA binding
DNA binding
a
b
1
708
M1 M2
M3
M4A M4B
649 688

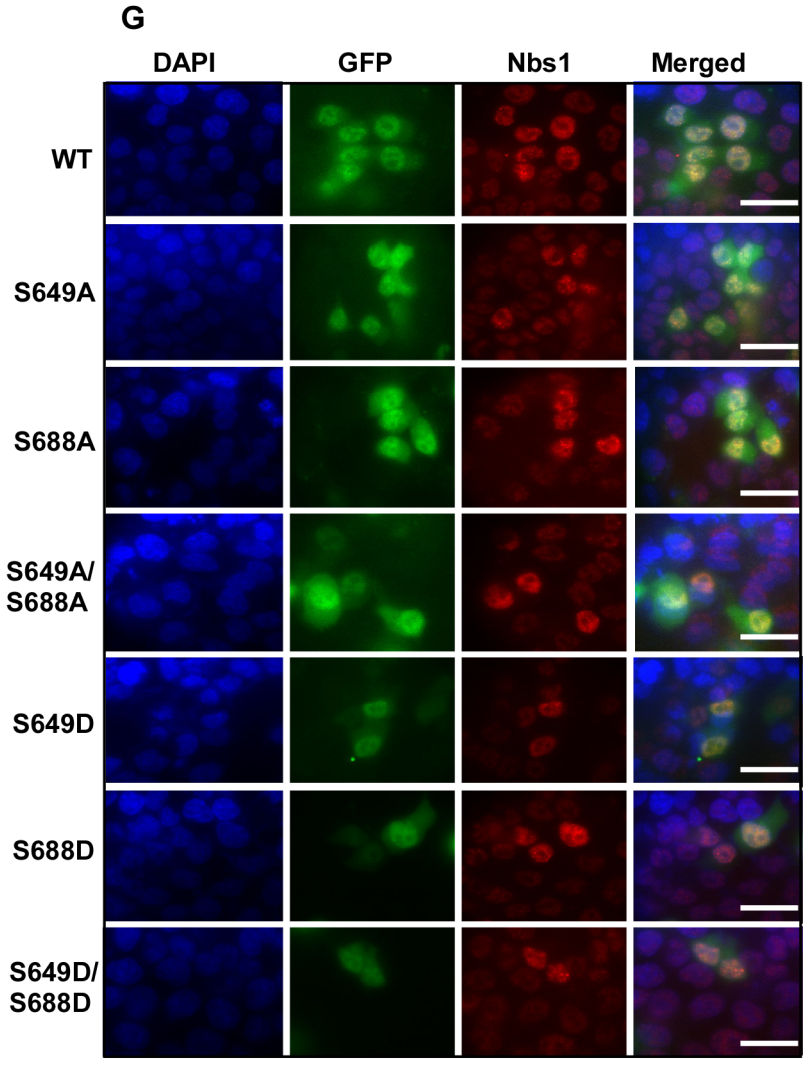

B
Mre11 (nM)
0
5
10
25
50
Mre11/DNA complex
Free probe

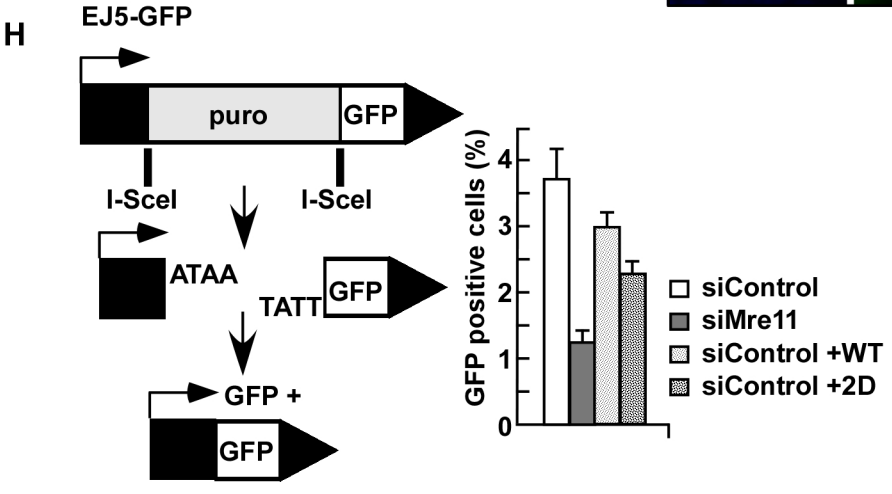

C
Ctrl
2 Gy
5 Gy
siMre11
+
+
+
Mre11
Rad50
Nbs1
p-Chk2
β-actin


D
siMre11 (3'UTR)
WT
2A
2D
GFP-Mre11
Mre11
Rad50
Nbs1
β-actin


E
IgG
GFP IP
Input
Rad50
Nbs1
GFP-Mre11


F
GFP IP
WT
2A
2D
Rad50
Nbs1
GFP-Mre11


G
DAPI
GFP
Nbs1
Merged
WT
S649A
S688A
S649A/
S688A
S649D
S688D
S649D/
S688D


H
EJ5-GFP
puro
GFP
I-SceI
I-SceI
ATAA
TATT
GFP
GFP +
GFP
GFP positive cells (%)
0
1
2
3
4
siControl
siMre11
siControl +WT
siControl +2D