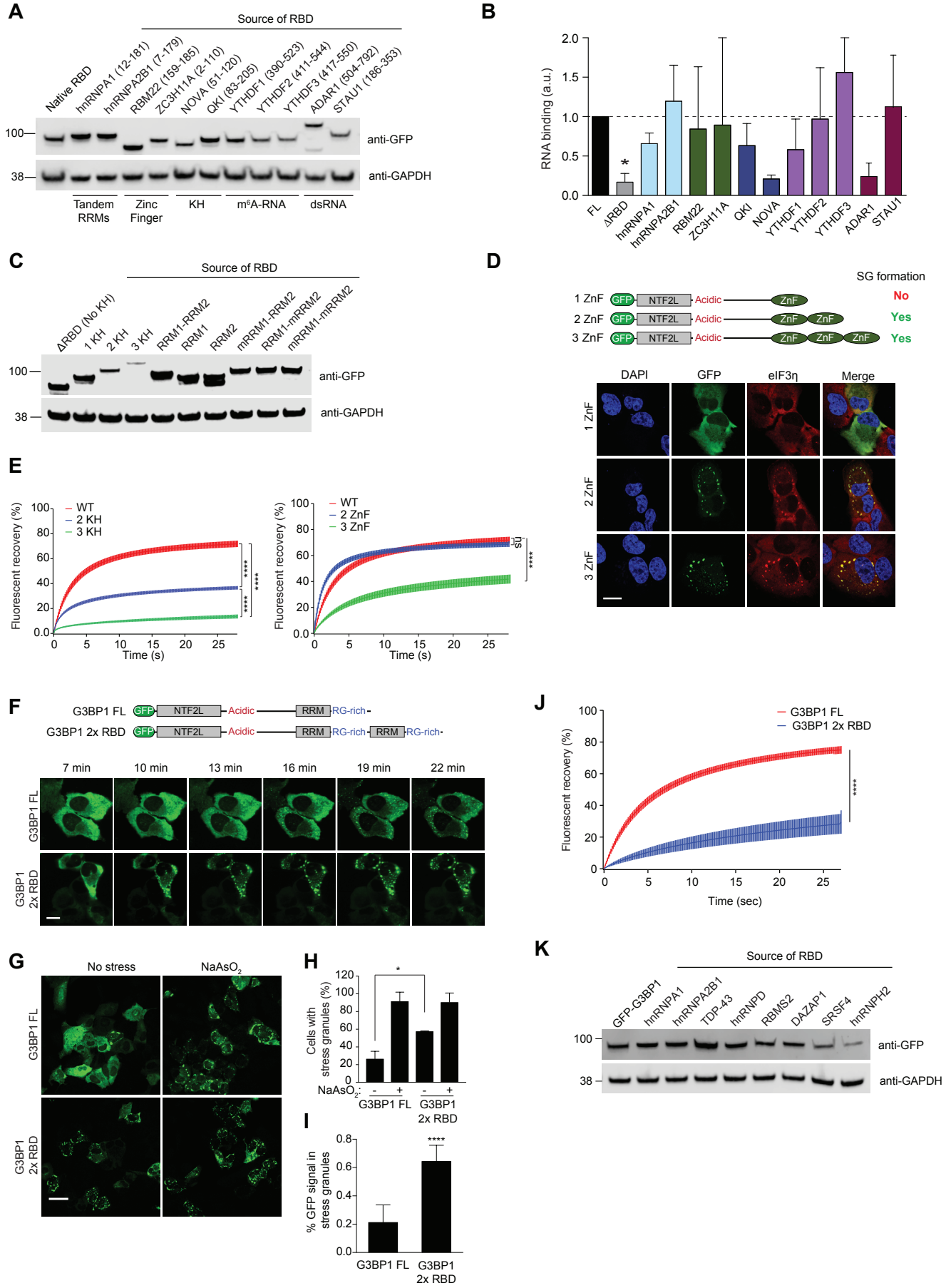
Figure S4


A
Source of RBD
Native RBD
hnRNPA1 (12-181)
hnRNPA2B1 (7-179)
RBM22 (159-185)
ZC3H11A (2-110)
NOVA (51-120)
QKI (83-205)
YTHDF1 (390-523)
YTHDF2 (411-544)
YTHDF3 (417-550)
ADAR1 (504-792)
STAU1 (186-353)
100
38
anti-GFP
anti-GAPDH
Tandem RRMs
Zinc Finger
KH
m6A-RNA
dsRNA
B
RNA binding (a.u.)
2.0
1.5
1.0
0.5
0.0
FL
ΔRBD
hnRNPA1
hnRNPA2B1
RBM22
ZC3H11A
QKI
NOVA
YTHDF1
YTHDF2
YTHDF3
ADAR1
STAU1
C
Source of RBD
ΔRBD (No KH)
1 KH
2 KH
3 KH
RRM1-RRM2
RRM1
RRM2
mRRM1-RRM2
RRM1-mRRM2
mRRM1-mRRM2
100
38
anti-GFP
anti-GAPDH
D
SG formation
1 ZnF
2 ZnF
3 ZnF
GFP
NTF2L
Acidic
ZnF
No
Yes
Yes
DAPI
GFP
eIF3η
Merge
1 ZnF
2 ZnF
3 ZnF
E
Fluorescent recovery (%)
WT
2 KH
3 KH
Time (s)
WT
2 ZnF
3 ZnF
STAU1
Time (s)
F
G3BP1 FL
G3BP1 2x RBD
GFP
NTF2L
Acidic
RRM
RG-rich
7 min
10 min
13 min
16 min
19 min
22 min
G3BP1 FL
G3BP1 2x RBD
G
No stress
NaAsO2
G3BP1 FL
G3BP1 2x RBD
H
Cells with stress granules (%)
NaAsO2:
G3BP1 FL
G3BP1 2x RBD
I
% GFP signal in stress granules
G3BP1 FL
G3BP1 2x RBD
J
Fluorescent recovery (%)
G3BP1 FL
G3BP1 2x RBD
Time (sec)
K
Source of RBD
GFP-G3BP1
hnRNPA1
hnRNPA2B1
TDP-43
hnRNPD
RBMS2
DAZAP1
SRSF4
hnRNPH2
100
38
anti-GFP
anti-GAPDH