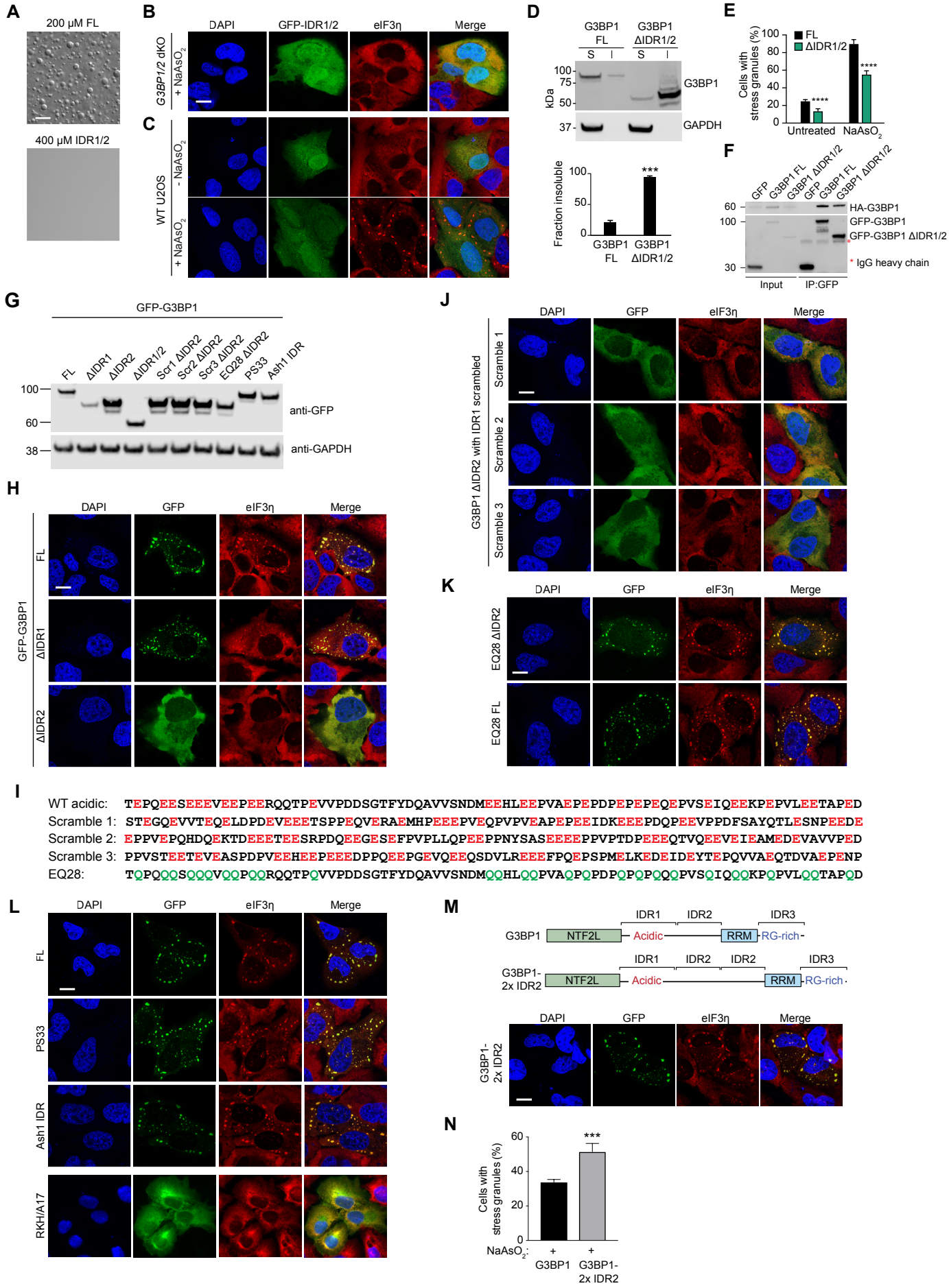
Figure S6


A
200 μM FL
400 μM IDR1/2
B
DAPI
GFP-IDR1/2
eIF3η
Merge
G3BP1/2 dKO
+ NaAsO2
C
WT U2OS
- NaAsO2
+ NaAsO2
D
G3BP1 FL
G3BP1 ΔIDR1/2
S
I
kDa
100
75
50
37
G3BP1
GAPDH
Fraction insoluble
***
G3BP1 FL
G3BP1 ΔIDR1/2
E
Cells with stress granules (%)
FL
ΔIDR1/2
****
Untreated
NaAsO2
F
GFP
G3BP1 FL
G3BP1 ΔIDR1/2
HA-G3BP1
GFP-G3BP1
GFP-G3BP1 ΔIDR1/2
* IgG heavy chain
Input
IP:GFP
G
GFP-G3BP1
FL
ΔIDR1
ΔIDR2
ΔIDR1/2
Scr1 ΔIDR2
Scr2 ΔIDR2
Scr3 ΔIDR2
EQ28 ΔIDR2
PS33
Ash1 IDR
anti-GFP
anti-GAPDH
H
GFP-G3BP1
J
G3BP1 ΔIDR2 with IDR1 scrambled
Scramble 1
Scramble 2
Scramble 3
K
EQ28 ΔIDR2
EQ28 FL
I
WT acidic: TEPQEESEEEVEEPEERQQTPEVVPDDSGTFYDQAVVSNDMEEHLEEPVAEPEPDPEPEPEQEPVSEIQEEKPEPVLEETAPED
Scramble 1: STEGQEVVTEQELDPDEVEEETSPPEQVERAEMHPEEEPVEQPVPVEAPEPEEIDKEEEPDQPEEVPPDFSAYQTLESNPEEDE
Scramble 2: EPPVEPQHDQEKTDEEETEESRPDQEEGESEFPVPLLQPEEPPNYSASEEEEPPVPTDPEEEQTVQEEVEIEAMEDEVAVVPED
Scramble 3: PPVSTEETEVEASPDPVEEHEEPEEEDPPQEEPGEVQEEQSDVLREEEFPQEPSPMELKEDEIDEYTEPQVVAEQTDVAEPENP
EQ28: TQPQQQSQQQVQQPQQRQQTPQVVPDDSGTFYDQAVVSNDMQQHLQQPVAQPQPDPQPQPQQQPVSQIQQQKPQPVLQQTAPQD
L
FL
PS33
Ash1 IDR
RKH/A17
M
IDR1
IDR2
IDR3
G3BP1
NTF2L
Acidic
RRM
RG-rich
G3BP1-2x IDR2
N
Cells with stress granules (%)
NaAsO2:
G3BP1
G3BP1-2x IDR2