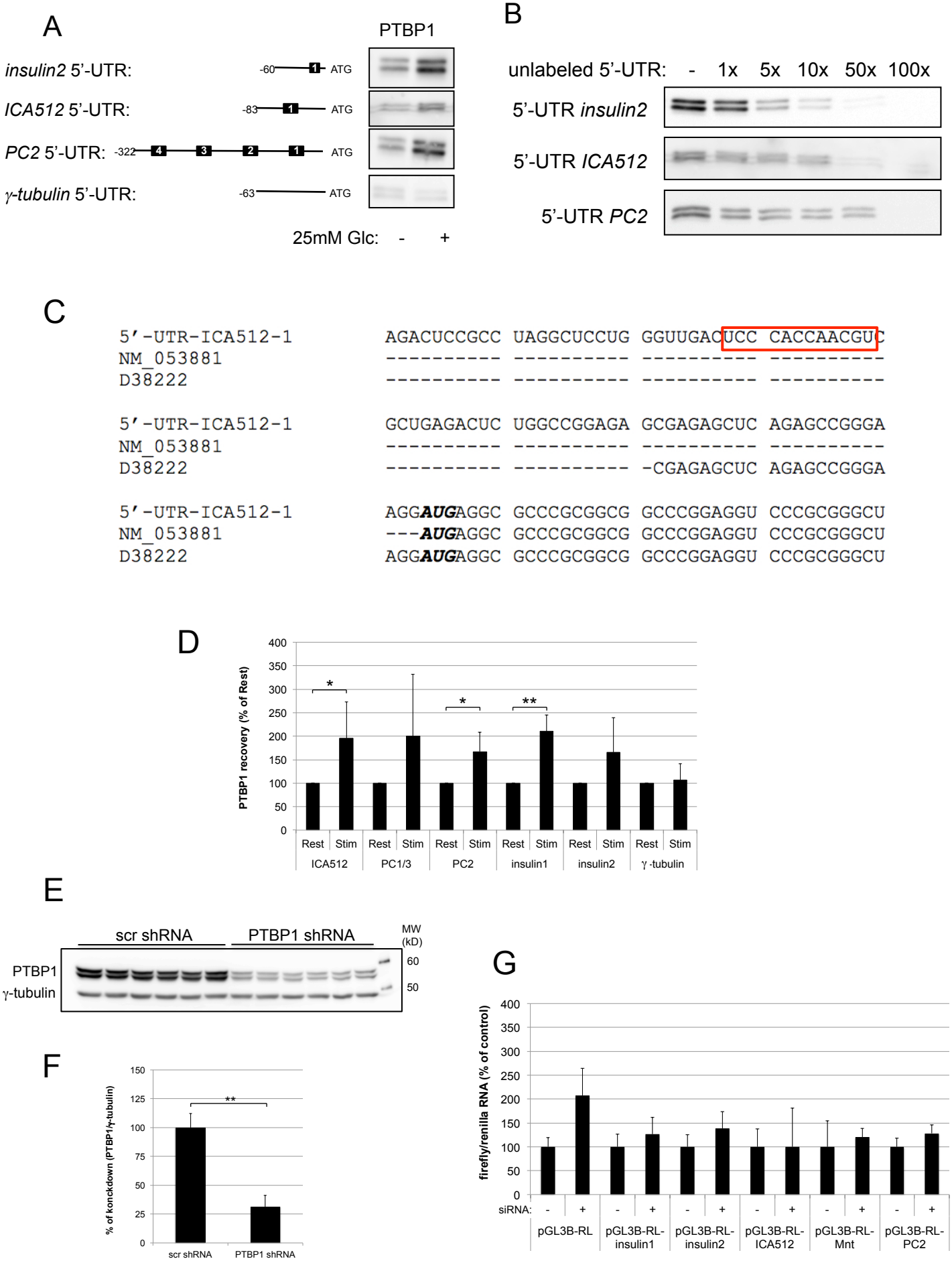
Figure S1


A
PTBP1
insulin2 5'-UTR:
-60
1
ATG
ICA512 5'-UTR:
-83
1
ATG
PC2 5'-UTR:
-322
4
3
2
1
ATG
γ-tubulin 5'-UTR:
-63
ATG
25mM Glc: - +
B
unlabeled 5'-UTR: - 1x 5x 10x 50x 100x
5'-UTR insulin2
5'-UTR ICA512
5'-UTR PC2
C
5'-UTR-ICA512-1 AGACUCCGCC UAGGCUCCUG GGUUGACUCC CACCAACGUC
NM_053881 ---------- ---------- ---------- ----------
D38222 ---------- ---------- ---------- ----------
5'-UTR-ICA512-1 GCUGAGACUC UGGCCGGAGA GCGAGAGCUC AGAGCCGGGA
NM_053881 ---------- ---------- ---------- ----------
D38222 ---------- ---------- -CGAGAGCUC AGAGCCGGGA
5'-UTR-ICA512-1 AGGAUGAGGC GCCCGCGGCG GCCCGGAGGU CCCGCGGGCU
NM_053881 ---AUGAGGC GCCCGCGGCG GCCCGGAGGU CCCGCGGGCU
D38222 AGGAUGAGGC GCCCGCGGCG GCCCGGAGGU CCCGCGGGCU
D
PTBP1 recovery (% of Rest)
400
350
300
250
200
150
100
50
0
*
*
**
Rest Stim Rest Stim Rest Stim Rest Stim Rest Stim Rest Stim
ICA512 PC1/3 PC2 insulin1 insulin2 γ-tubulin
E
scr shRNA
PTBP1 shRNA
MW (kD)
PTBP1
γ-tubulin
60
50
F
% of konckdown (PTBP1/γ-tubulin)
150
125
100
75
50
25
0
**
scr shRNA
PTBP1 shRNA
G
firefly/renilla RNA (% of control)
400
350
300
250
200
150
100
50
0
siRNA: - + - + - + - + - + - +
pGL3B-RL
pGL3B-RL-insulin1
pGL3B-RL-insulin2
pGL3B-RL-ICA512
pGL3B-RL-Mnt
pGL3B-RL-PC2