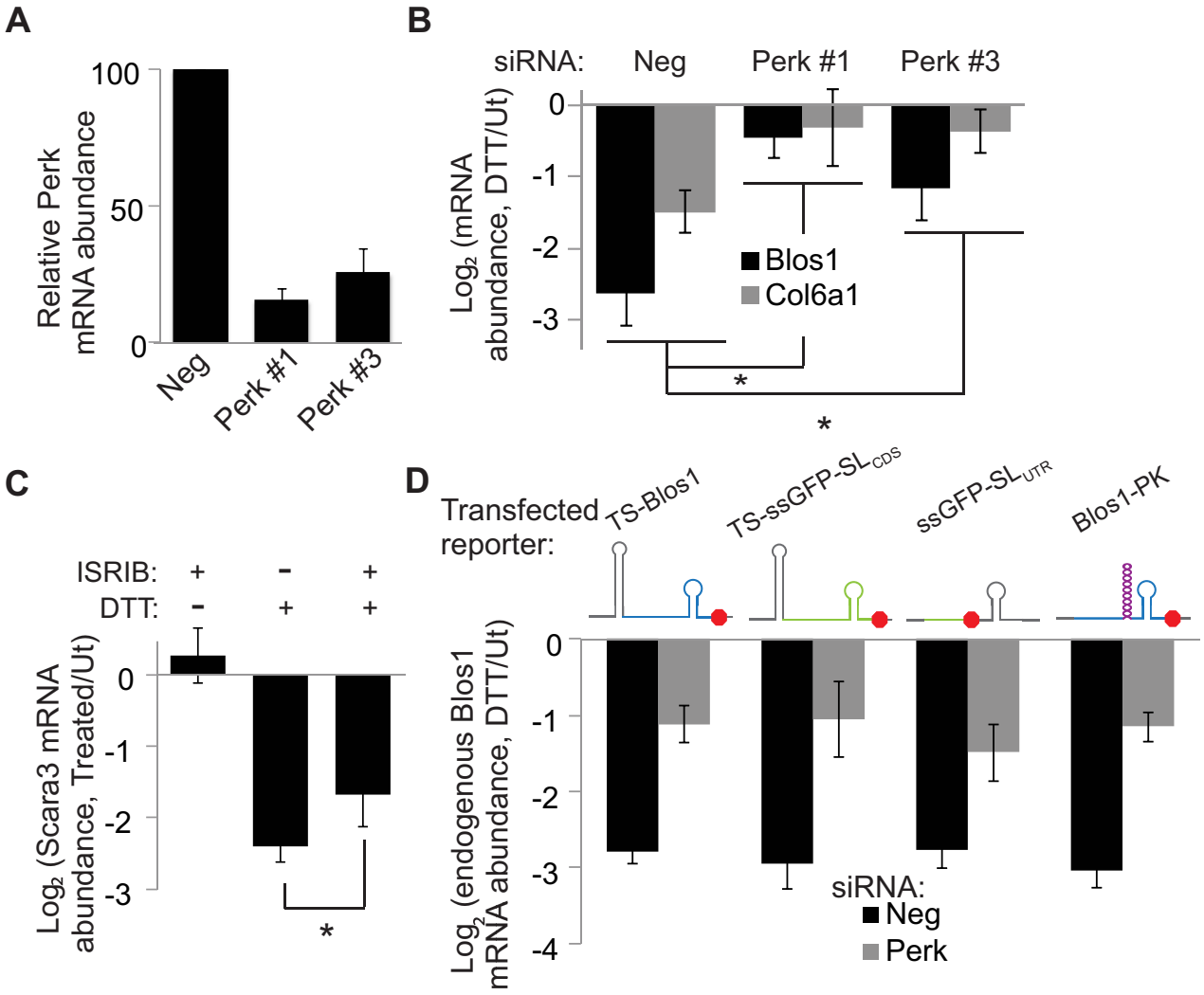
Supplemental Materials

Molecular Biology of the Cell

Moore et al.


A
Relative Perk mRNA abundance
100
50
0
Neg
Perk #1
Perk #3
B
siRNA:
Neg
Perk #1
Perk #3
Log2 (mRNA abundance, DTT/Ut)
0
-1
-2
-3
Blos1
Col6a1
*
*
C
ISRIB:
DTT:
Log2 (Scara3 mRNA abundance, Treated/Ut)
0
-1
-2
-3
*
D
Transfected reporter:
TS-Blos1
TS-ssGFP-SLCDS
ssGFP-SLUTR
Blos1-PK
Log2 (endogenous Blos1 mRNA abundance, DTT/Ut)
0
-1
-2
-3
-4
siRNA:
Neg
Perk

Supplemental Figure 1. (A-B) We transfected MC3T3-E1 cells with two different siRNAs targeting the Perk transcript (Perk #1 or Perk #3). We measured percent of Perk mRNA remaining (A) and RIDD target mRNA levels (B) after incubation with or without 1 mM DTT for 4 h. (C) Scara3 relative mRNA abundance in MC3T3-E1 cells treated with 500 nM ISRIB, 1 mM DTT, or both for 4 h. Samples are identical to those in Figure 4F. (D)Relative mRNA abundance of endogenous Blos1 from stably transfected cell lines expressing Perk-insensitive RIDD reporters. Samples are identical to those used to measure the reporter mRNA levels in Fig. 5C, 5B, 6B, and 6D. Shown are averages and standard deviations of at least 3 independent experiments. *$p<0.05$, two tailed paired t-test.Ut, untreated.