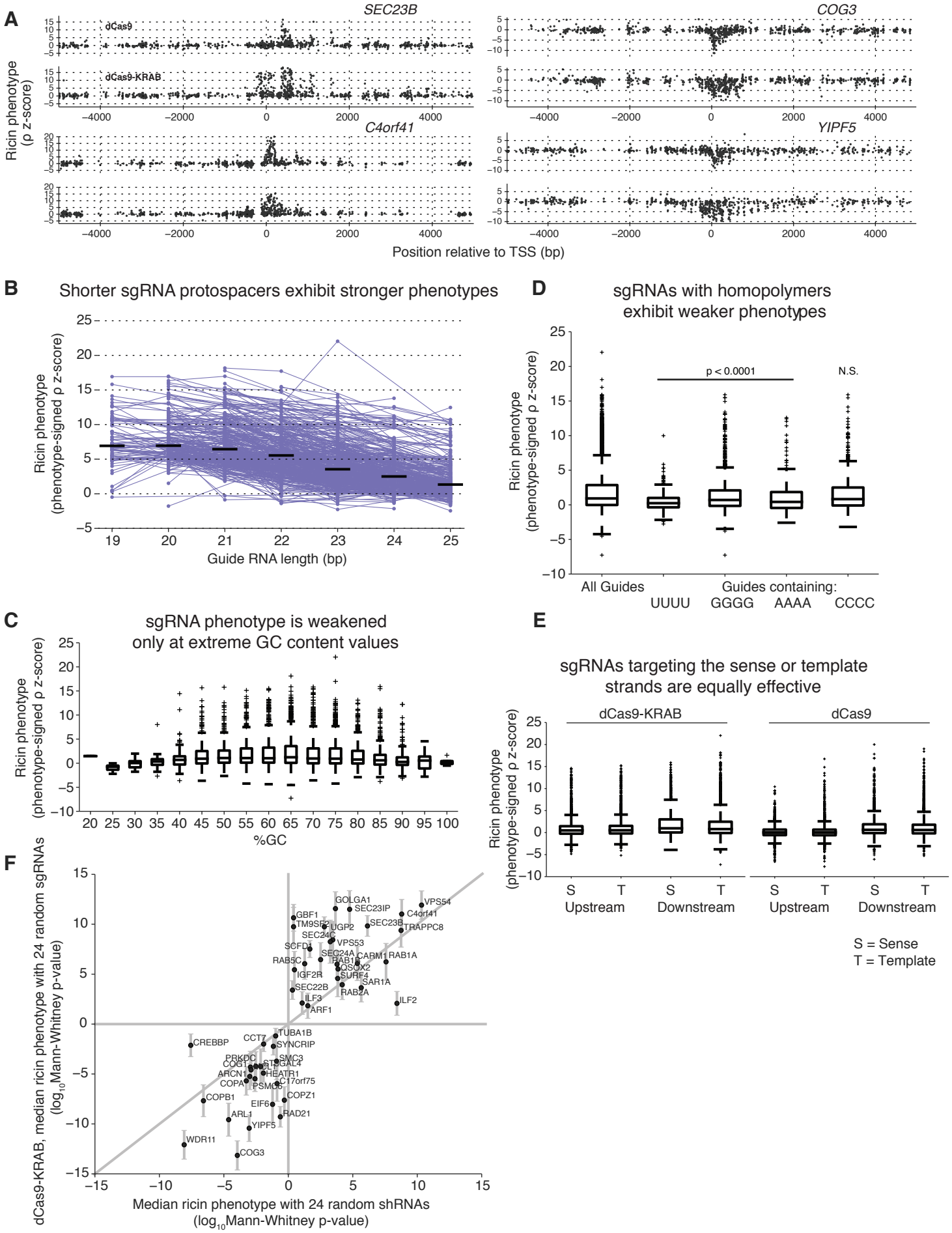
Figure S2


A
SEC23B
COG3
C4orf41
YIPF5
dCas9
dCas9-KRAB
Ricin phenotype (ρ z-score)
Position relative to TSS (bp)
B
Shorter sgRNA protospacers exhibit stronger phenotypes
Ricin phenotype (phenotype-signed ρ z-score)
Guide RNA length (bp)
C
sgRNA phenotype is weakened only at extreme GC content values
Ricin phenotype (phenotype-signed ρ z-score)
%GC
D
sgRNAs with homopolymers exhibit weaker phenotypes
Ricin phenotype (phenotype-signed ρ z-score)
p < 0.0001
N.S.
All Guides
Guides containing:
UUUU
GGGG
AAAA
CCCC
E
sgRNAs targeting the sense or template strands are equally effective
dCas9-KRAB
dCas9
Ricin phenotype (phenotype-signed ρ z-score)
S
T
Upstream
Downstream
S = Sense
T = Template
F
dCas9-KRAB, median ricin phenotype with 24 random sgRNAs (log10 Mann-Whitney p-value)
Median ricin phenotype with 24 random shRNAs (log10 Mann-Whitney p-value)
GOLGA1
SEC23IP
VPS54
C4orf41
GBF1
TM9SF2
UGP2
SEC23B
TRAPPC8
SEC24C
VPS53
SCFD1
SEC24A
CARM1
RAB1A
RAB3C
TRAB1
COX2
IGF2R
SURF4
SAR1A
SEC22B
RAB2A
ILF3
ILF2
ARF1
TUBA1B
CREBBP
CCT7
SYNCRIP
PRKDC
SMC3
COG1
SGAL4
ARCN1
HEATR1
COPA
C17orf75
COPB1
COPZ1
EIF6
RAD21
ARL1
YIPF5
WDR11
COG3