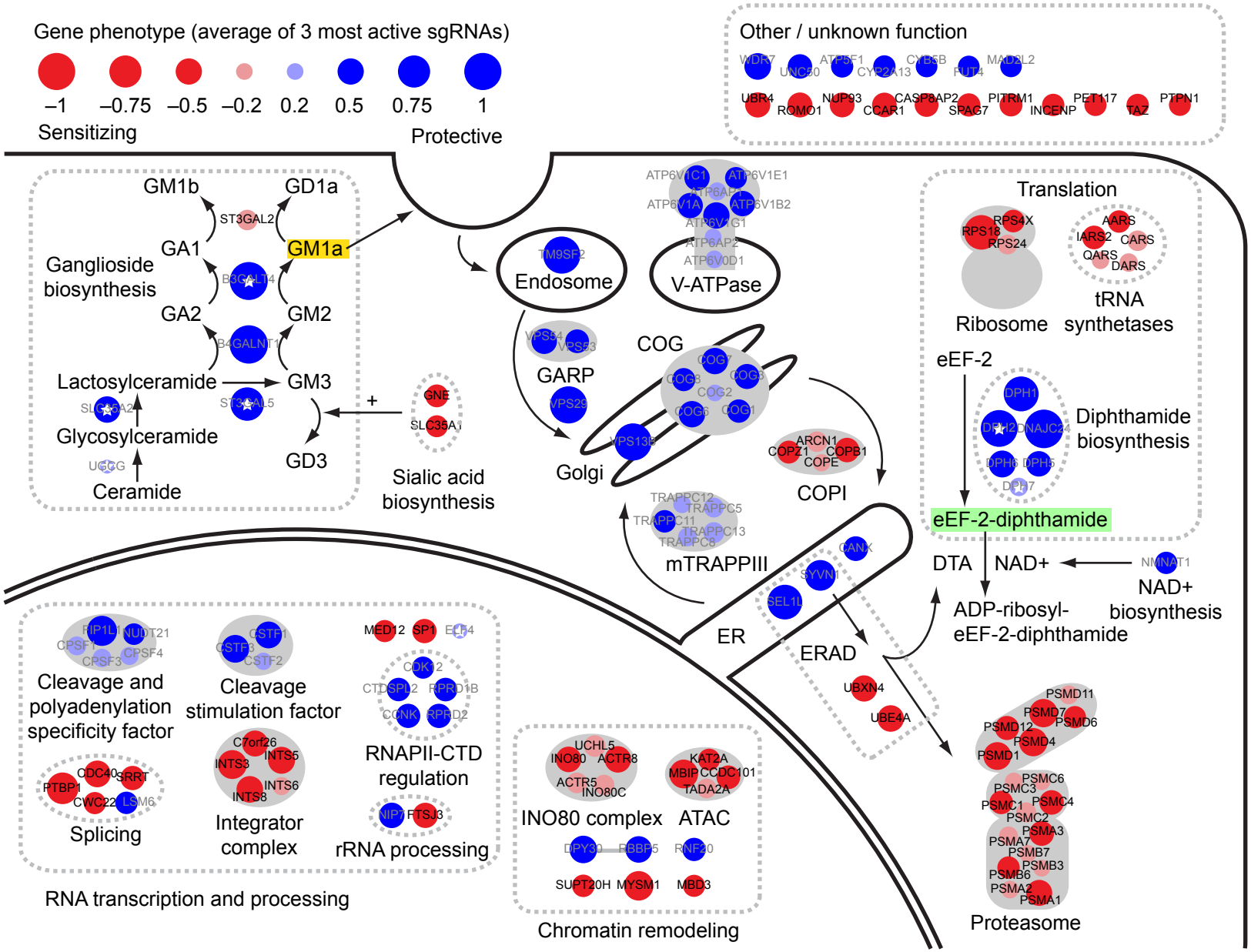
Figure S6


Gene phenotype (average of 3 most active sgRNAs)
–1
–0.75
–0.5
–0.2
0.2
0.5
0.75
1
Sensitizing
Protective
Other / unknown function
WDR7
UNC50
ATP5F1
CYP2A13
CYB5B
RUT4
MAD2L2
UBR4
ROMO1
NUP93
CCAR1
CASP8AP2
SPAG7
PITRM1
INCENP
PET117
TAZ
PTPN1
GM1b
GD1a
ST3GAL2
GA1
GM1a
Ganglioside biosynthesis
B3GALT4
GA2
GM2
B4GALNT1
Lactosylceramide
GM3
ST3GAL5
Glycosylceramide
GD3
UGCG
Ceramide
+
GNE
SLC35A1
Sialic acid biosynthesis
TM9SF2
Endosome
ATP6V1C1
ATP6V1E1
ATP6AP1
ATP6V1A
ATP6V1B2
ATP6V1G1
ATP6AP2
ATP6V0D1
V-ATPase
VPS54
VPS53
GARP
VPS29
COG
COG7
COG8
COG5
COG2
COG6
COG1
VPS13B
Golgi
ARCN1
COPZ1
COPB1
COPE
COPI
TRAPPC12
TRAPPC5
TRAPPC11
TRAPPC13
TRAPPC8
mTRAPPIII
Translation
RPS4X
RPS18
RPS24
Ribosome
AARS
IARS2
CARS
QARS
DARS
tRNA synthetases
eEF-2
DPH1
DPH2
DNAJC24
DPH3
DPH5
DPH7
Diphthamide biosynthesis
eEF-2-diphthamide
DTA
NAD+
NMNAT1
NAD+ biosynthesis
ADP-ribosyl-eEF-2-diphthamide
QRICH2
SYVN1
SEL1L
ER
ERAD
UBXN4
UBE4A
RIP1L1
NUDT21
CPSF1
CPSF4
CPSF3
Cleavage and polyadenylation specificity factor
CSTF1
CSTF3
CSTF2
Cleavage stimulation factor
MED12
SP1
ELL4
CDK12
CTDSPL2
RPRD1B
CDNK
RPRD2
RNAPII-CTD regulation
CDC40
SRRT
PTBP1
CWC22
LSM6
Splicing
C7orf26
INTS5
INTS3
INTS6
INTS8
Integrator complex
NIPT
FTSJ3
rRNA processing
RNA transcription and processing
UCHL5
INO80
ACTR8
ACTR5
INO80C
INO80 complex
KAT2A
MBIP
CCDC101
TADA2A
ATAC
DPY30
RBBP5
RNF20
SUPT20H
MYSM1
MBD3
Chromatin remodeling
PSMD11
PSMD7
PSMD6
PSMD12
PSMD4
PSMD1
PSMC6
PSMC3
PSMC1
PSMC4
PSMC2
PSMA3
PSMA7
PSMB7
PSMB3
PSMB6
PSMA2
PSMA1
Proteasome