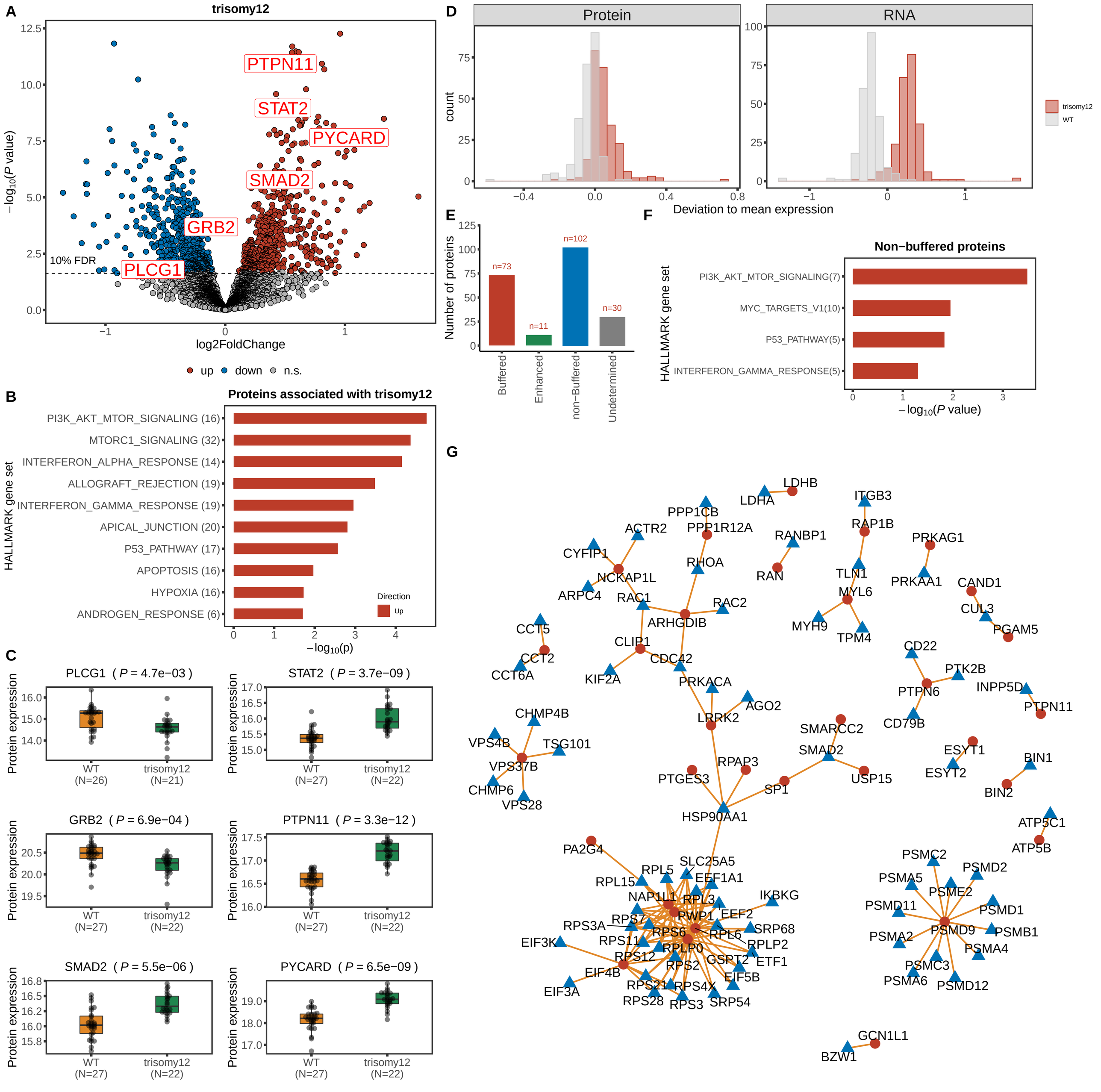
A
trisomy12
PTPN11
STAT2
PYCARD
SMAD2
GRB2
PLCG1
10% FDR
−log10(P value)
log2FoldChange
up
down
n.s.
B
Proteins associated with trisomy12
PI3K_AKT_MTOR_SIGNALING (16)
MTORC1_SIGNALING (32)
INTERFERON_ALPHA_RESPONSE (14)
ALLOGRAFT_REJECTION (19)
INTERFERON_GAMMA_RESPONSE (19)
APICAL_JUNCTION (20)
P53_PATHWAY (17)
APOPTOSIS (16)
HYPOXIA (16)
ANDROGEN_RESPONSE (6)
HALLMARK gene set
Direction
Up
−log10(p)
C
PLCG1 (P = 4.7e−03)
STAT2 (P = 3.7e−09)
GRB2 (P = 6.9e−04)
PTPN11 (P = 3.3e−12)
SMAD2 (P = 5.5e−06)
PYCARD (P = 6.5e−09)
Protein expression
WT (N=26)
trisomy12 (N=21)
WT (N=27)
trisomy12 (N=22)
D
Protein
RNA
count
Deviation to mean expression
trisomy12
WT
E
Number of proteins
n=73
n=11
n=102
n=30
Buffered
Enhanced
non−Buffered
Undetermined
F
Non−buffered proteins
HALLMARK gene set
PI3K_AKT_MTOR_SIGNALING(7)
MYC_TARGETS_V1(10)
P53_PATHWAY(5)
INTERFERON_GAMMA_RESPONSE(5)
−log10(P value)
G
LDHB
LDHA
ITGB3
PPP1CB
RAP1B
ACTR2
PPP1R12A
RANBP1
PRKAG1
CYFIP1
RHOA
RAN
TLN1
PRKAA1
CAND1
NCKAP1L
MYL6
ARPC4
RAC1
RAC2
CUL3
ARHGDIB
MYH9
PGAM5
CCT5
TPM4
CLIP1
CD22
CCT2
CDC42
PTK2B
CCT6A
KIF2A
PRKACA
PTPN6
INPP5D
AGO2
PTPN11
CHMP4B
LRRK2
CD79B
SMARCC2
VPS4B
TSG101
SMAD2
ESYT1
VPS37B
RPAP3
BIN1
ESYT2
PTGES3
USP15
CHMP6
SP1
BIN2
VPS28
HSP90AA1
ATP5C1
ATP5B
PA2G4
PSMC2
SLC25A5
PSMD2
RPL5
PSMA5
EEF1A1
RPL15
PSME2
NAP1L1
RPL3
IKBKG
PSMD11
PSMD1
RPS7
PWP1
EEF2
RPS3A
RPS6
RPL6
SRP68
PSMA2
PSMD9
PSMB1
EIF3K
RPS11
RPLP2
RPLP0
PSMA4
RPS12
GSPT2
ETF1
RPS2
PSMC3
EIF4B
EIF5B
PSMA6
PSMD12
EIF3A
RPS21
RPS4X
RPS28
RPS3
SRP54
GCN1L1
BZW1