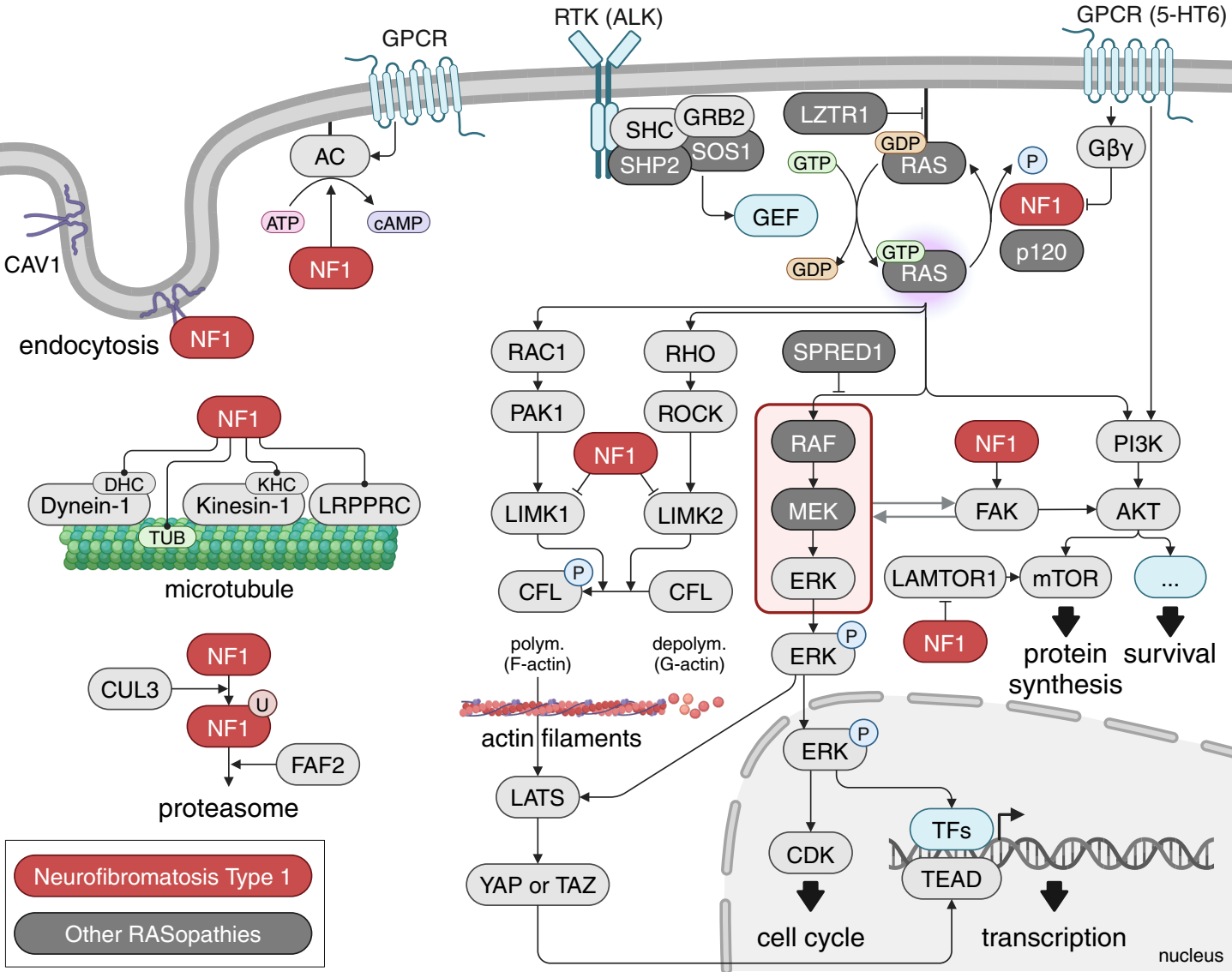
GPCR
RTK (ALK)
GPCR (5-HT6)
AC
ATP
cAMP
NF1
CAV1
endocytosis
NF1
SHC
GRB2
SHP2
SOS1
GEF
LZTR1
GDP
GTP
RAS
P
NF1
p120
Gβγ
GTP
GDP
RAS
RAC1
RHO
SPRED1
PAK1
ROCK
NF1
LIMK1
LIMK2
CFL
P
CFL
RAF
MEK
ERK
NF1
PI3K
FAK
AKT
LAMTOR1
mTOR
...
NF1
protein synthesis
survival
ERK
P
polym. (F-actin)
depolym. (G-actin)
actin filaments
LATS
YAP or TAZ
ERK
P
CDK
TFs
TEAD
cell cycle
transcription
nucleus
NF1
DHC
Dynein-1
KHC
Kinesin-1
LRPPRC
TUB
microtubule
NF1
CUL3
U
NF1
FAF2
proteasome
Neurofibromatosis Type 1
Other RASopathies