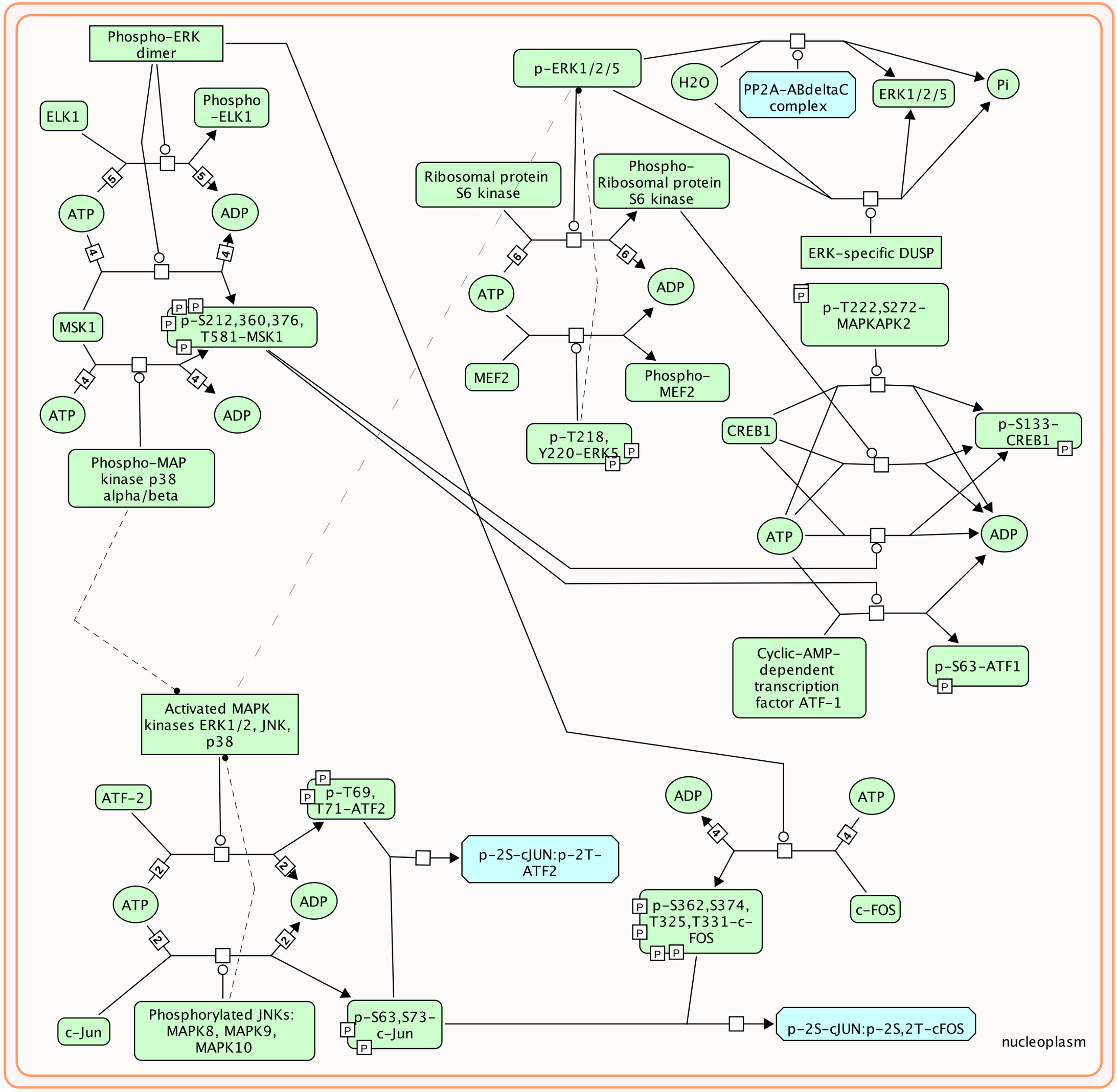
Phospho-ERK dimer
ELK1
Phospho -ELK1
ATP
ADP
MSK1
p-S212,360,376, T581-MSK1
ATP
ADP
Phospho-MAP kinase p38 alpha/beta
p-ERK1/2/5
H2O
PP2A-ABdeltaC complex
ERK1/2/5
Pi
Ribosomal protein S6 kinase
Phospho-Ribosomal protein S6 kinase
ERK-specific DUSP
ATP
ADP
MEF2
Phospho-MEF2
p-T218, Y220-ERK5
p-T222,S272-MAPKAPK2
CREB1
p-S133-CREB1
ATP
ADP
Cyclic-AMP-dependent transcription factor ATF-1
p-S63-ATF1
Activated MAPK kinases ERK1/2, JNK, p38
ATF-2
p-T69, T71-ATF2
p-2S-cJUN:p-2T-ATF2
ADP
ATP
ATP
ADP
p-S362,S374, T325,T331-c-FOS
c-FOS
c-Jun
Phosphorylated JNKs: MAPK8, MAPK9, MAPK10
p-S63,S73-c-Jun
p-2S-cJUN:p-2S,2T-cFOS
nucleoplasm
cytosol