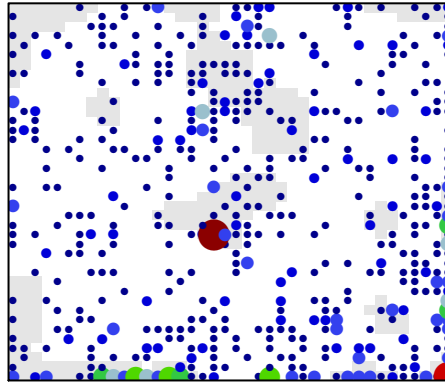
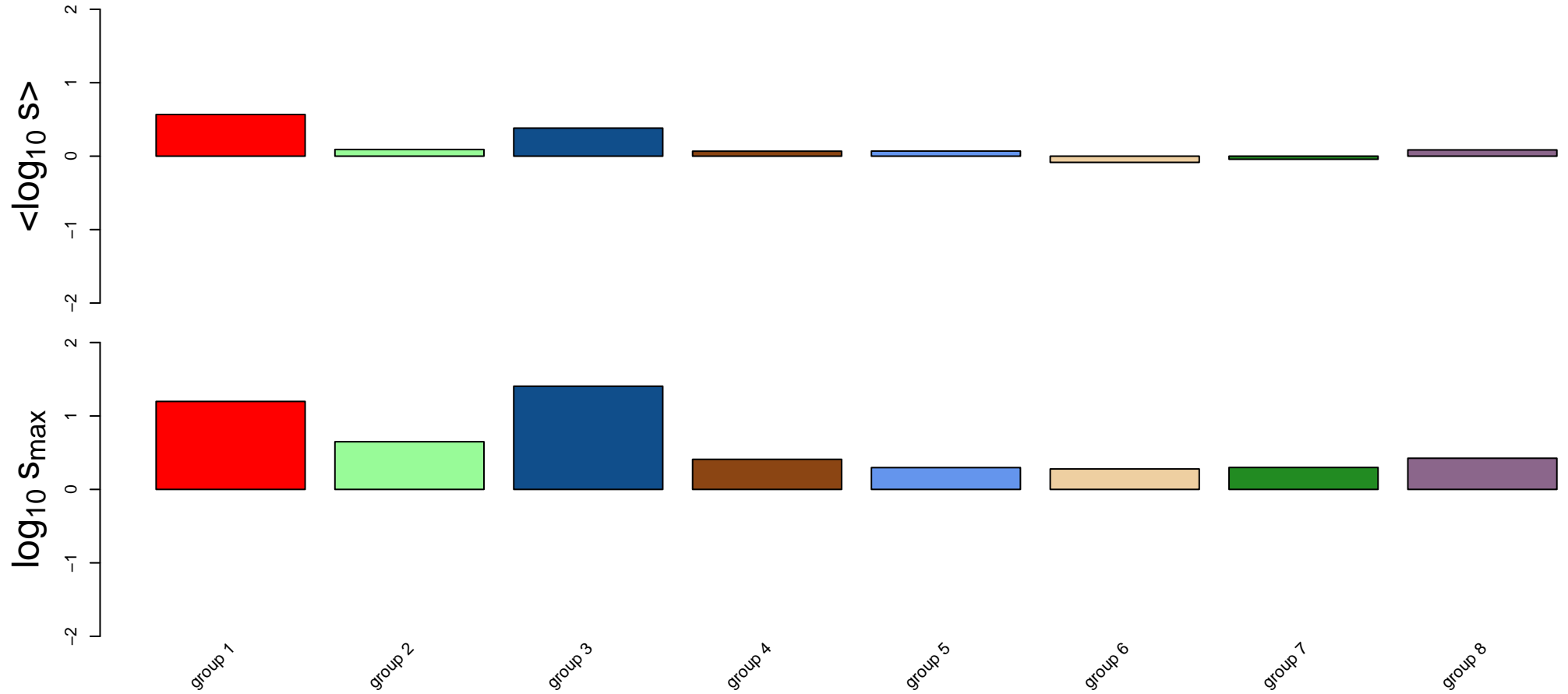
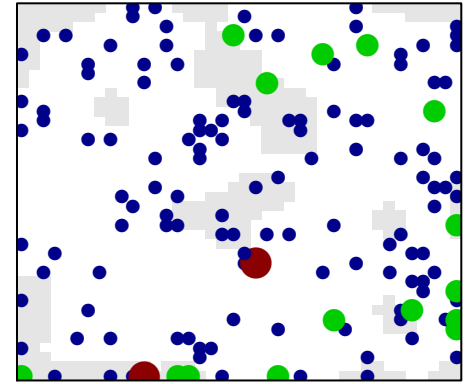


# MAPK signaling pathway

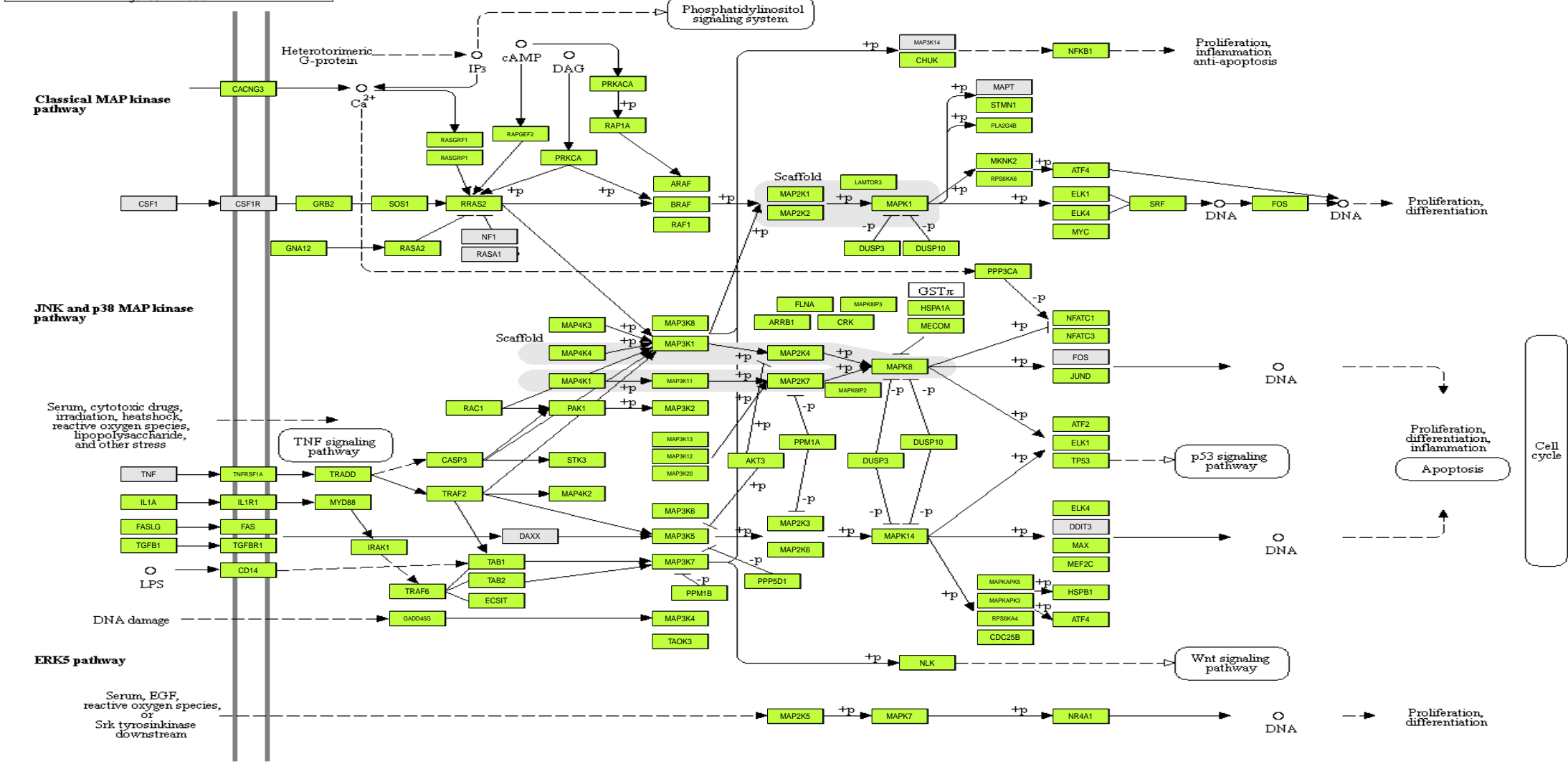
all genes



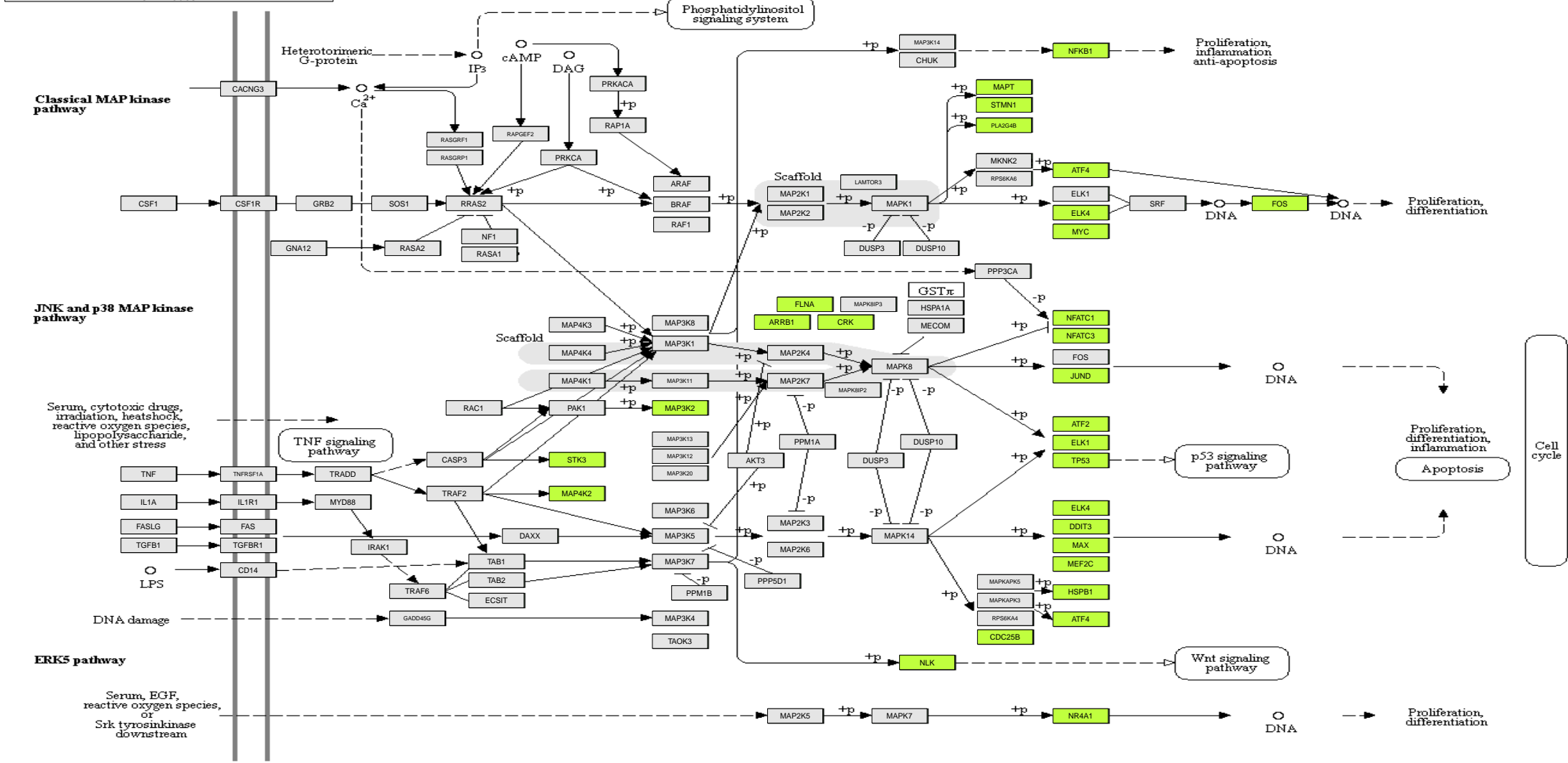
sink node genes



MAPK signaling pathway genes with data



MAPK signaling pathway sink nodes



MAPK signaling pathway group 1

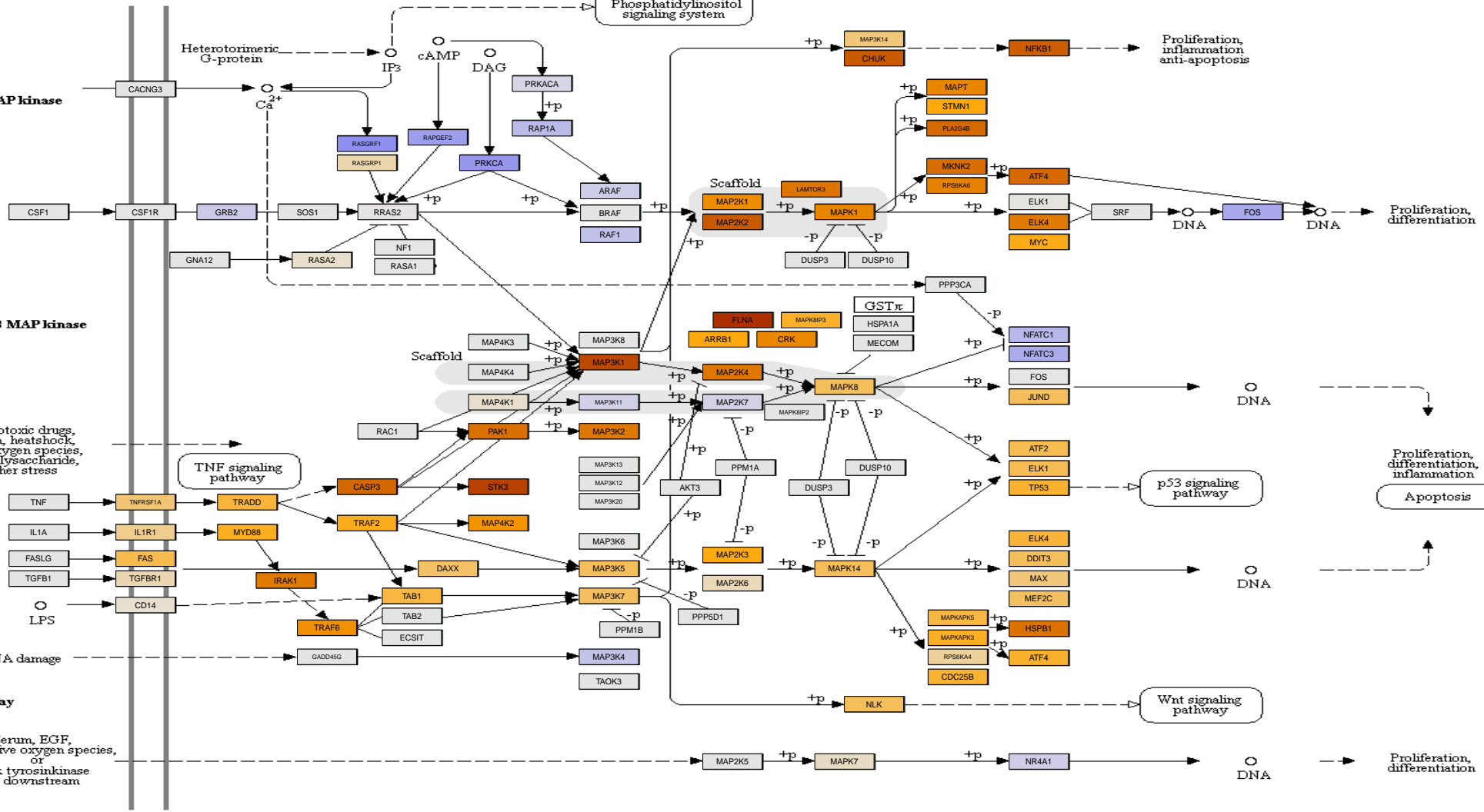
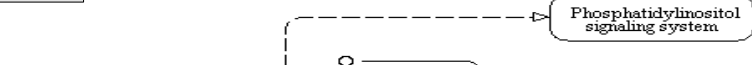
Classical MAP kinase pathway

JNK and p38 MAP kinase pathway

Serum, cytotoxic drugs, irradiation, heatshock, reactive oxygen species, lipopolysaccharide, and other stress

ERK5 pathway

Serum, EGF, reactive oxygen species, or Src tyrosinase downstream



MAPKKKK    MAPKKK    MAPKK    MAPK    Transcription factor

Proliferation, differentiation, inflammation

Proliferation, differentiation

Cell cycle



MAPK signaling pathway group 3

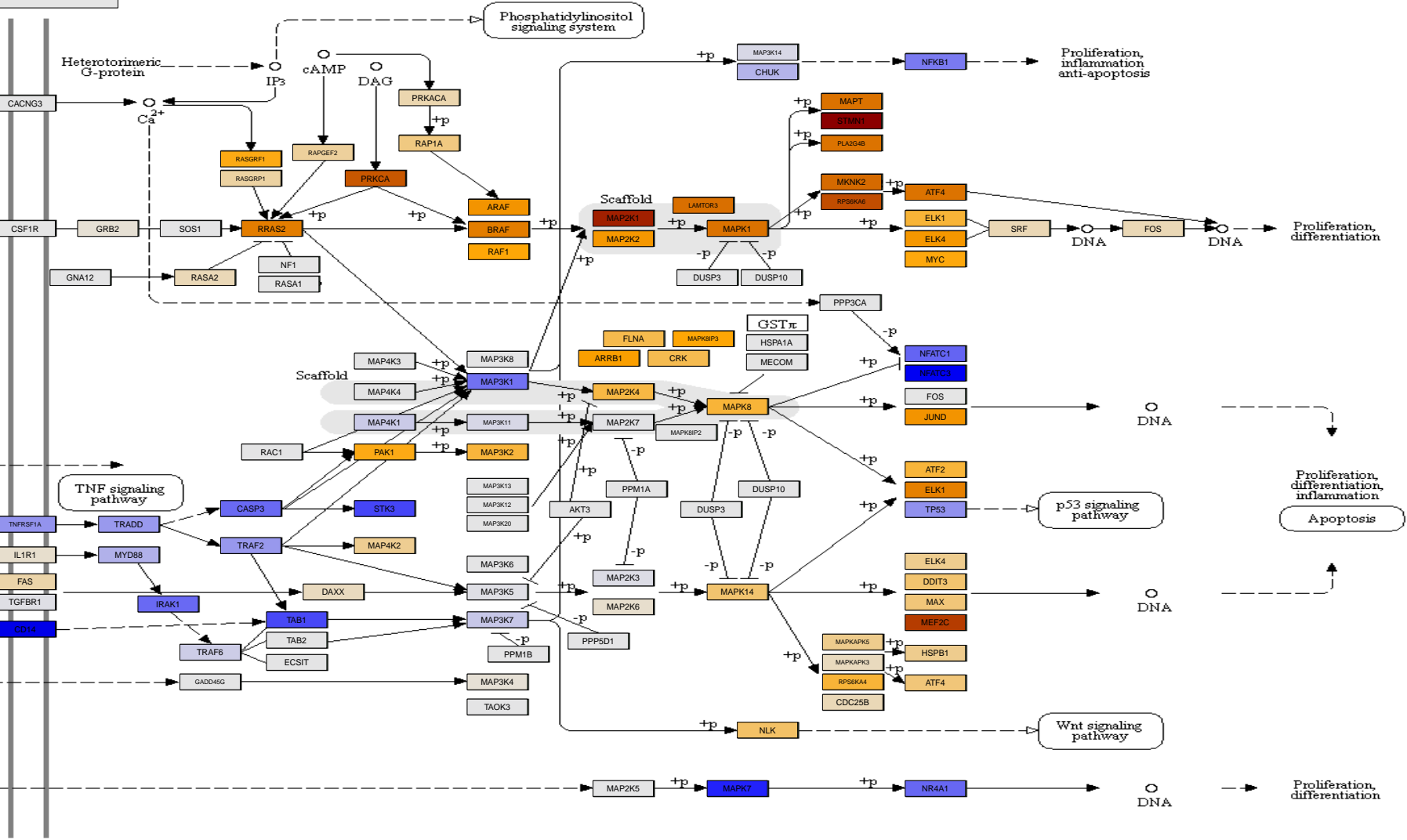
Classical MAP kinase pathway

JNK and p38 MAP kinase pathway

Serum, cytotoxic drugs, irradiation, heatshock, reactive oxygen species, lipopolysaccharide, and other stress

ERK5 pathway

Serum, EGF, reactive oxygen species, or Src tyrosin kinase downstream



MAPKKKK    MAPKKK    MAPKK    MAPK    Transcription factor

MAPK signaling pathway group 4

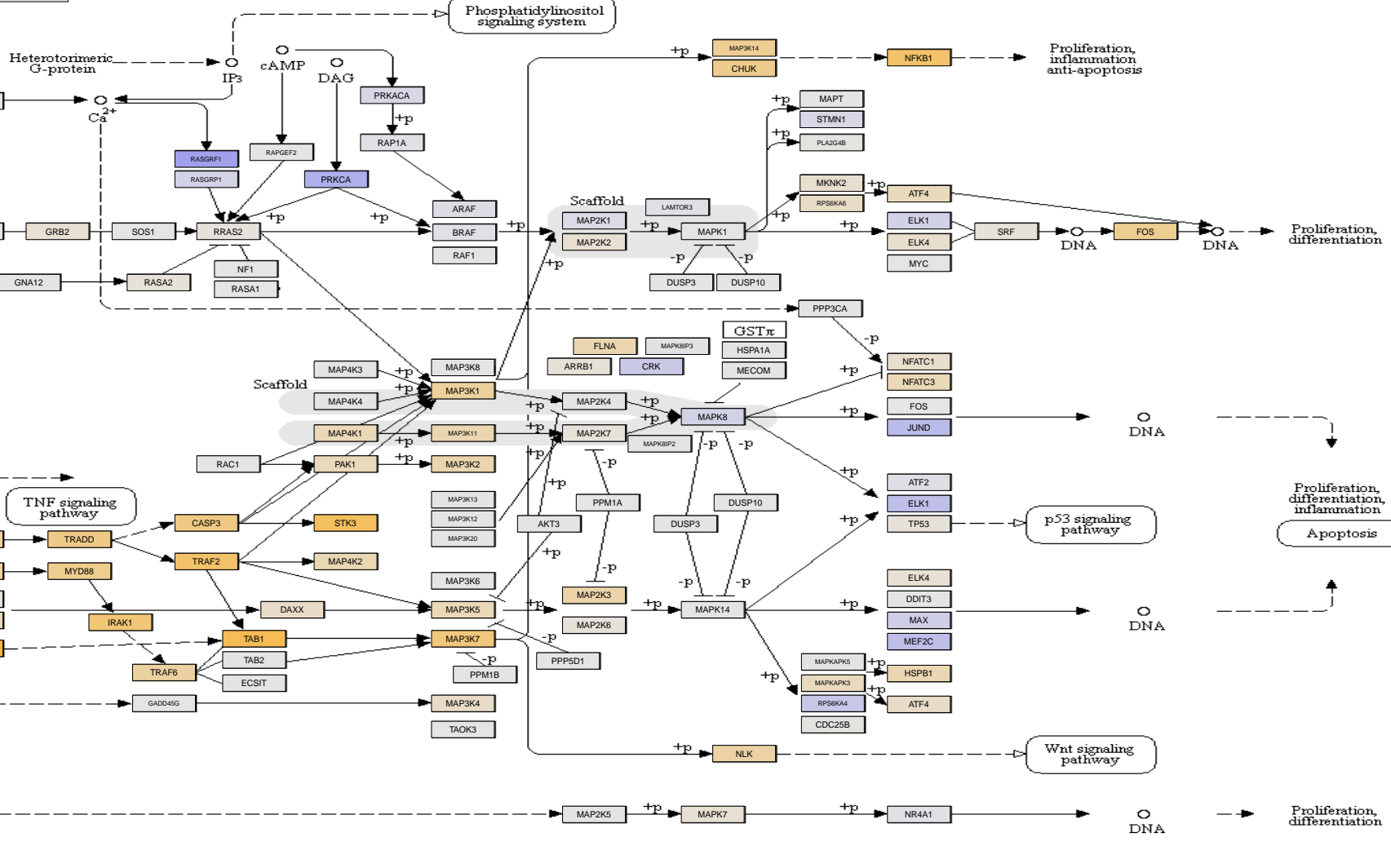
Classical MAP kinase pathway

JNK and p38 MAP kinase pathway

Serum, cytotoxic drugs, irradiation, heatshock, reactive oxygen species, lipopolysaccharide, and other stress

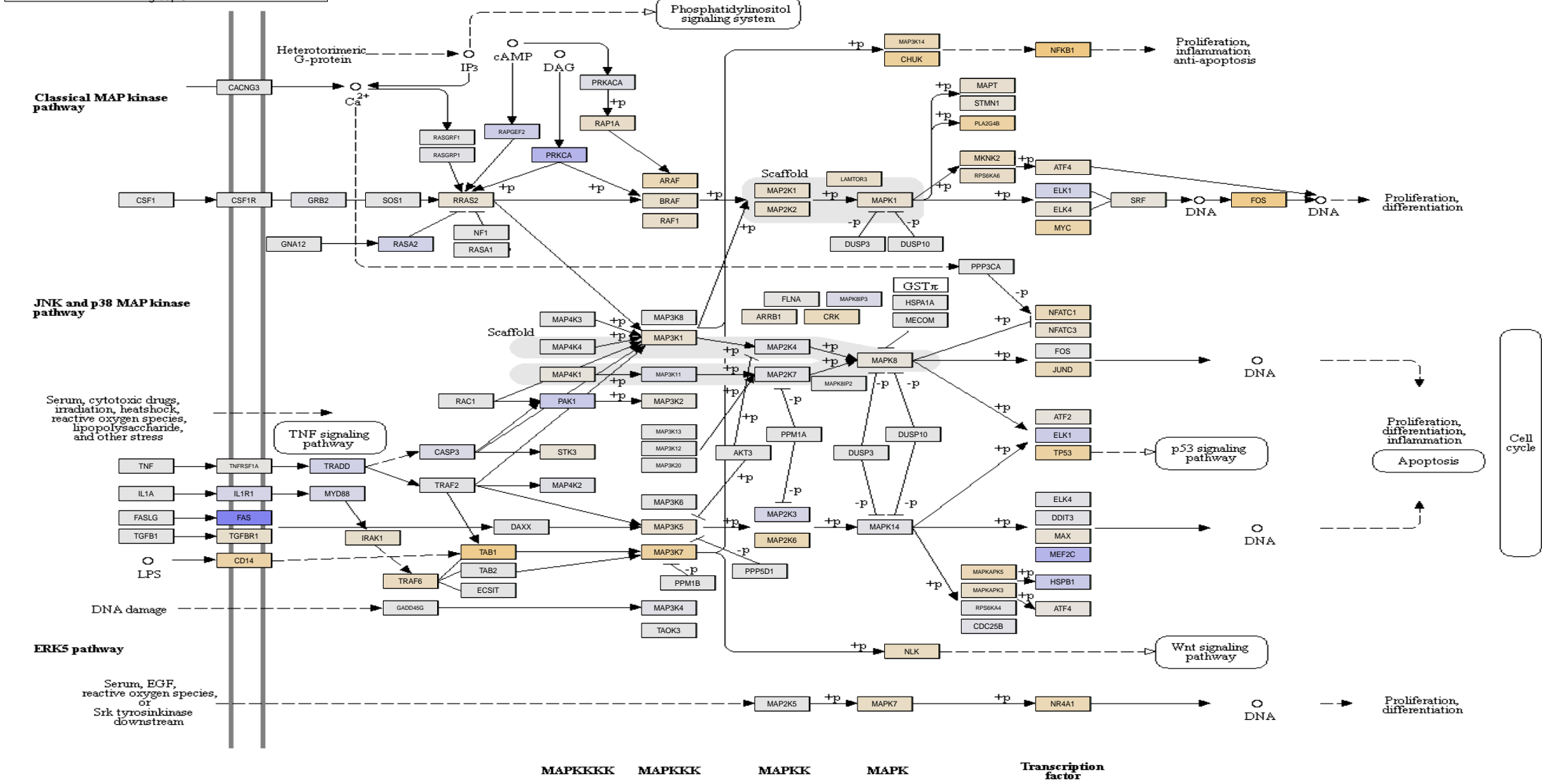
ERK5 pathway

Serum, EGF, reactive oxygen species, or Src tyrosin kinase downstream



MAPKKKK    MAPKKK    MAPKK    MAPK    Transcription factor

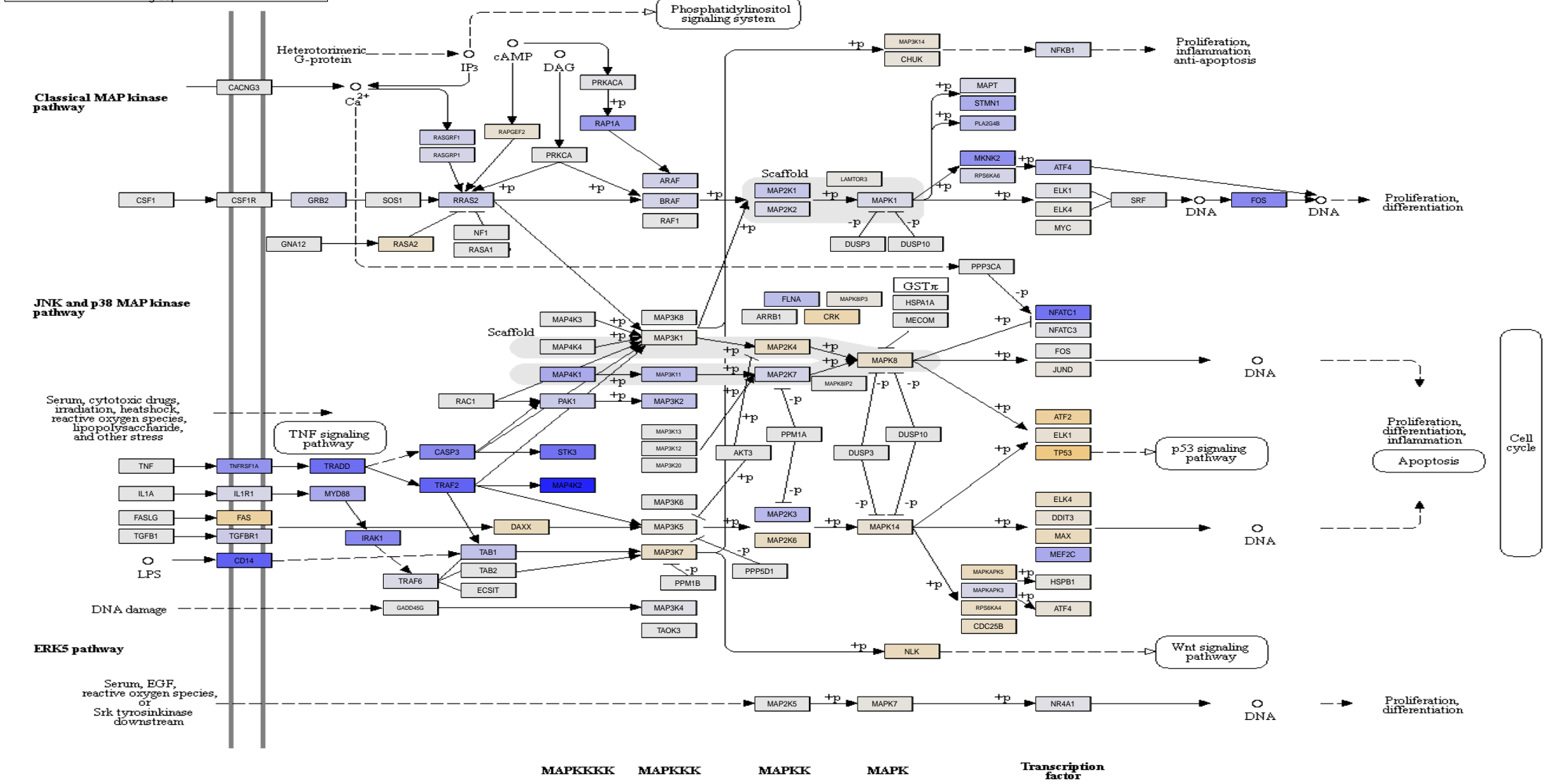
MAPK signaling pathway group 5







MAPK signaling pathway group 7



MAPK signaling pathway group 8

