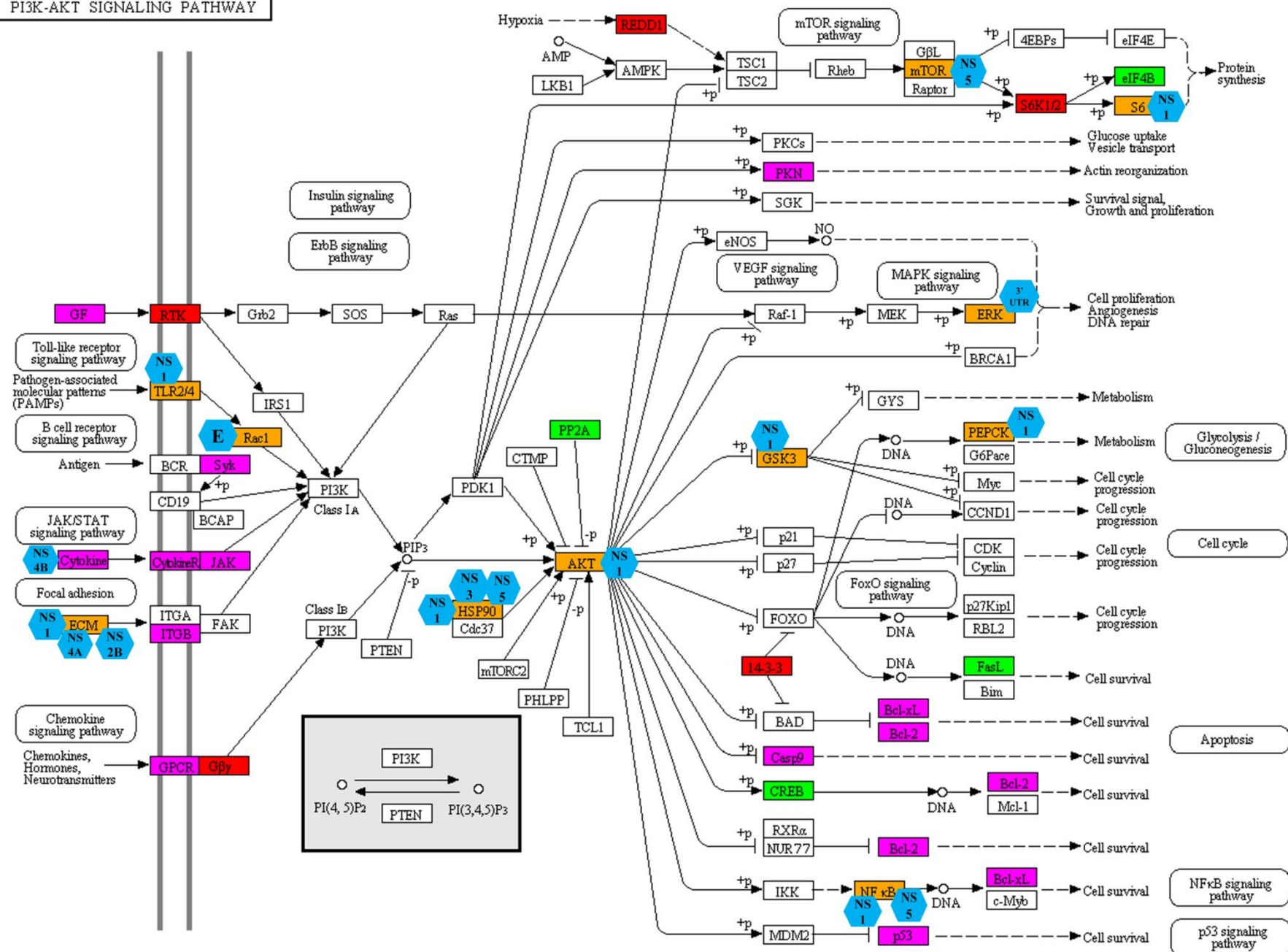


S1 Fig: Representation of dengue viral interacting protein in signal transduction and immune system pathway. Representation of dengue viral interacting proteins in (a) PI3K-Akt signaling pathway, (b) TNF signaling pathway, (c) NF-kappa B signaling pathway, (d) Jak-STAT signaling pathway, (e) MAPK signaling pathway, (f) HIF-1 signaling pathway, (g) Rap1 signaling pathway, (h) Sphingolipid signaling pathway, (i) Ras signaling pathway, (j) Cytokine-cytokine receptor interaction, (k) Toll-like receptor signaling pathway, (l) Chemokine signaling pathway, (m) RIG-I-like receptor signaling pathway, (n) T cell receptor signaling pathway, (o) NOD-like receptor signaling pathway, (p) Complement and coagulation cascades, (q) Natural killer cell mediated cytotoxicity, (r) Antigen processing and presentation, (s) Cytosolic DNA-sensing pathway and (t) Leukocyte transendothelial migration. The dengue virus interacting proteins are mapped to the pathways using the “Search&Colour Pathway” tool from the KEGG database. The proteins that are involved in direct interactions are colored orange, indirect interactions are colored in pink, up-regulated proteins are colored red and down-regulated proteins are colored green. The viral components are depicted as blue hexagons.

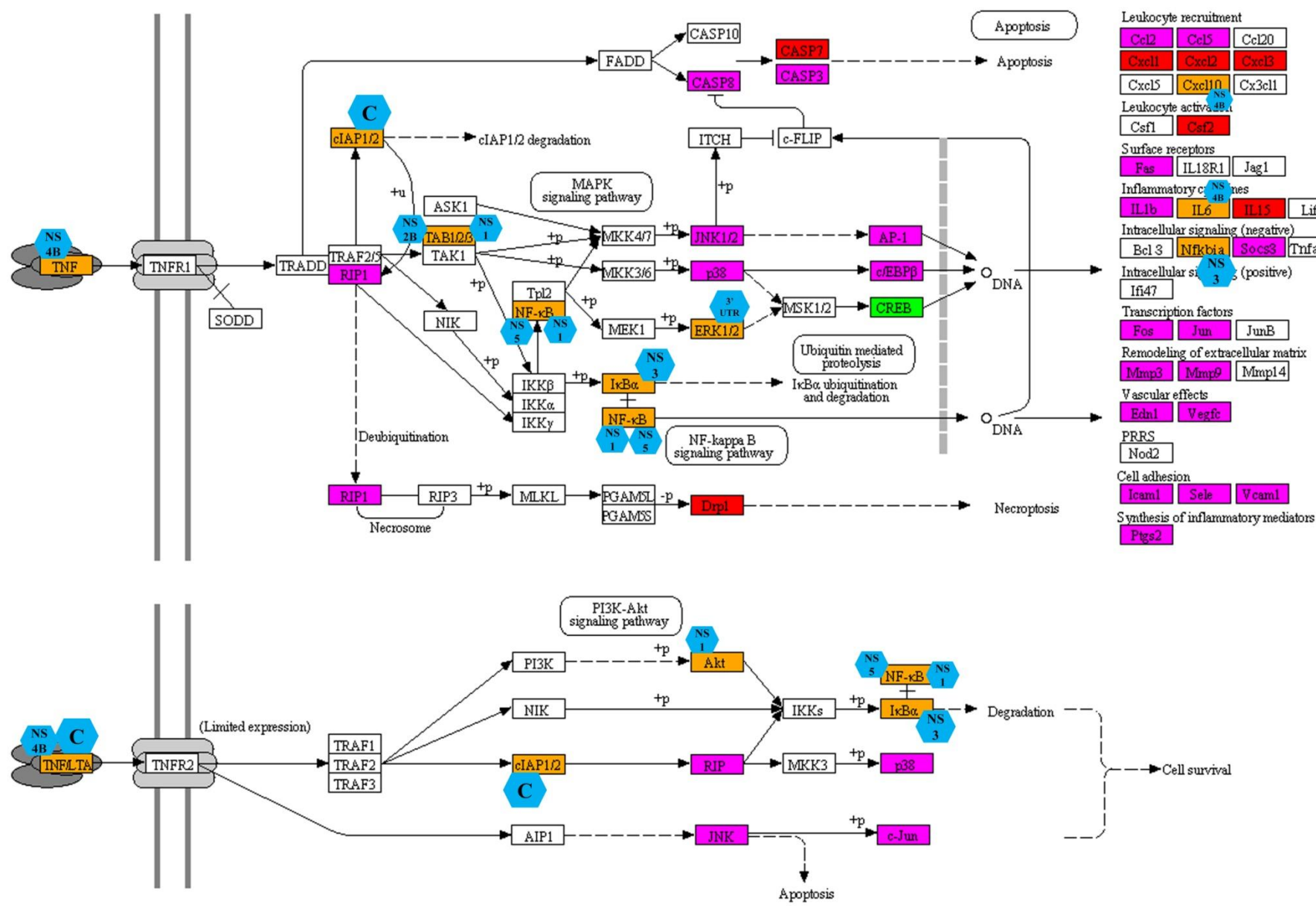
a

PI3K-AKT SIGNALING PATHWAY



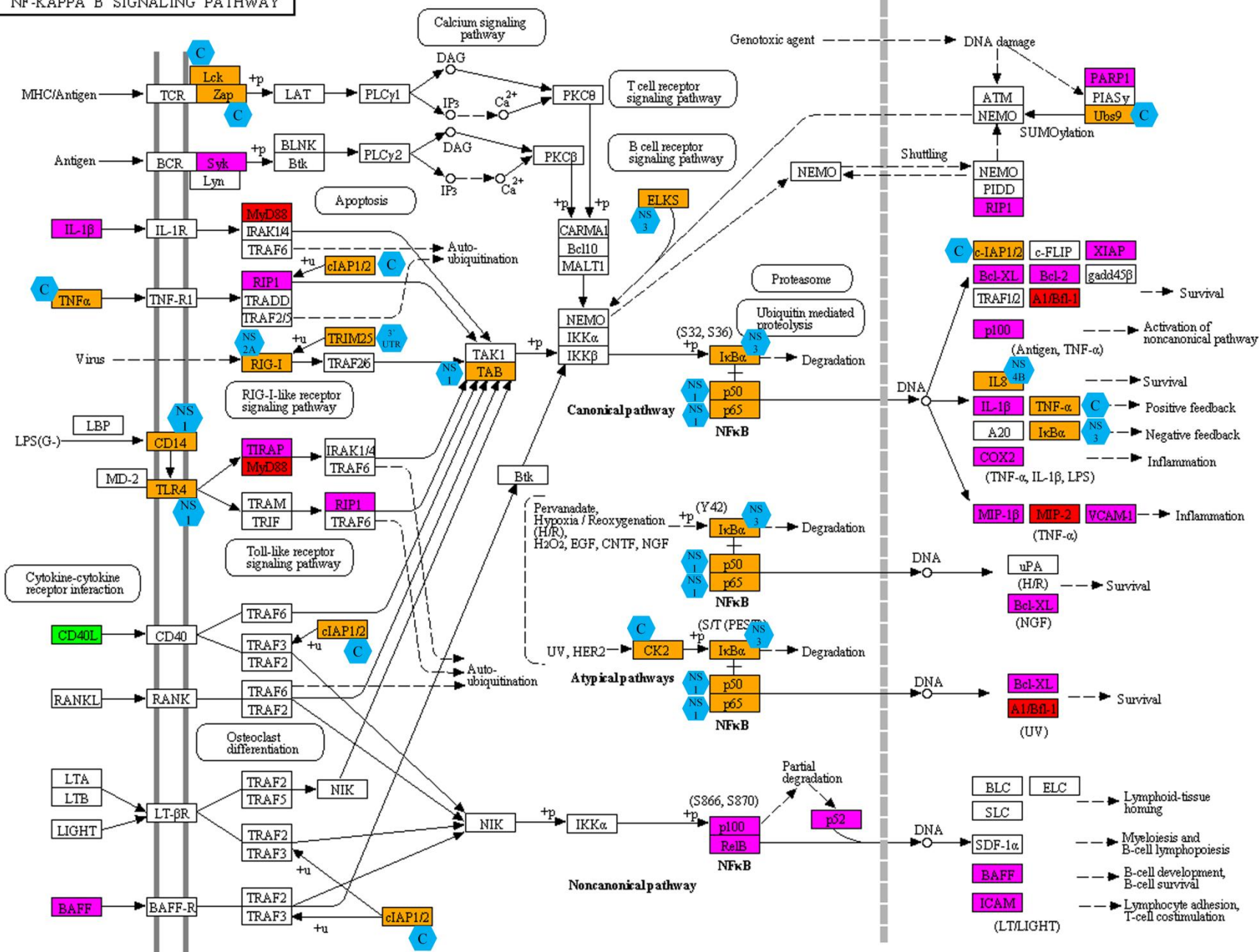
b

TNF SIGNALING PATHWAY



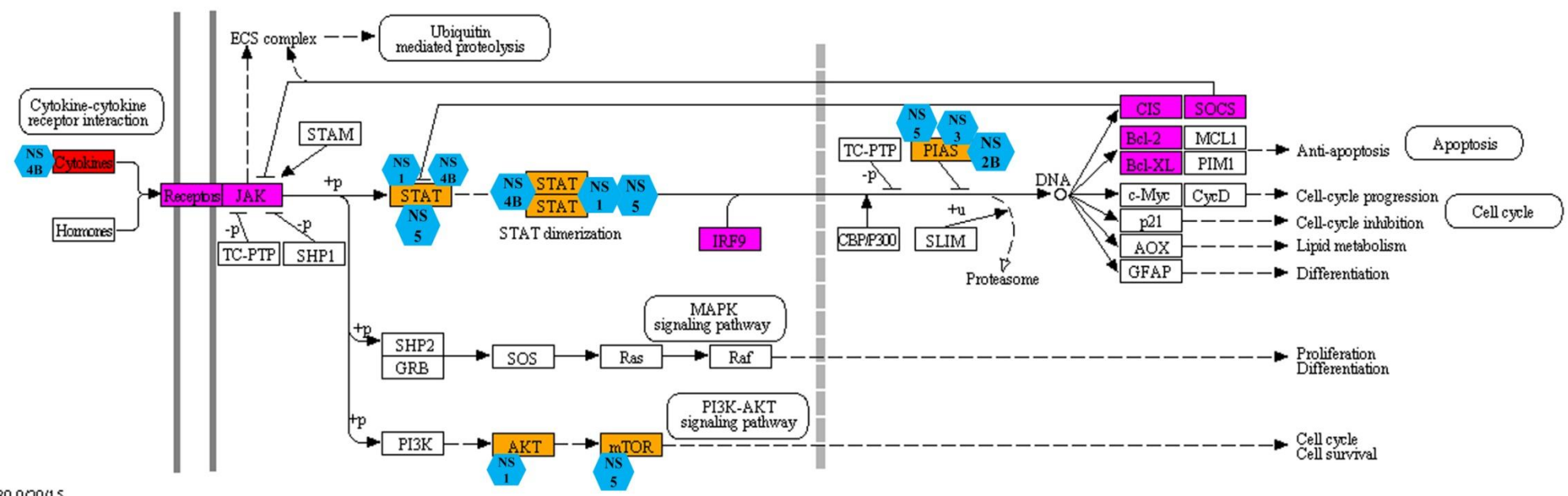
C

NF-KAPPA B SIGNALING PATHWAY



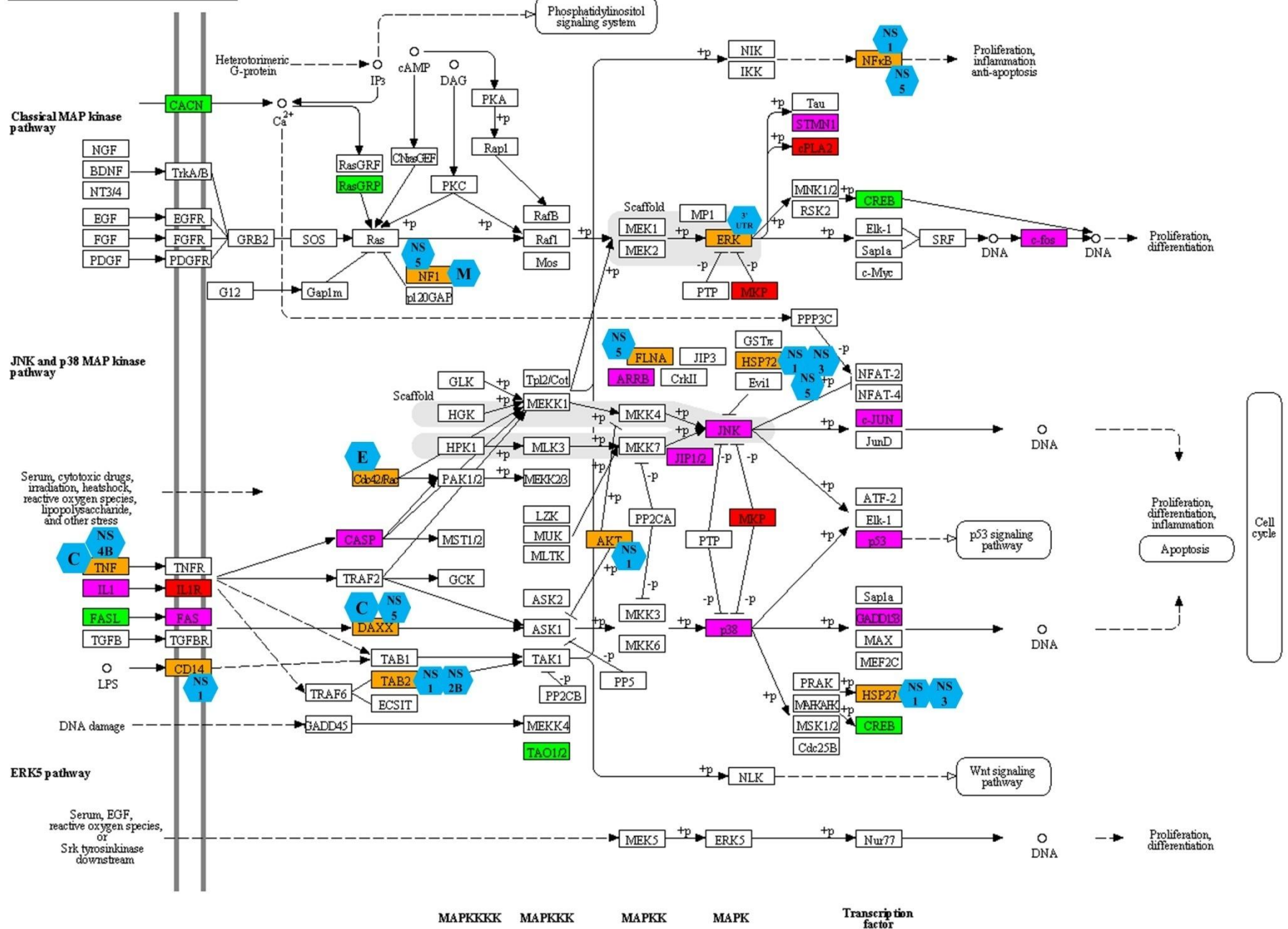
d

JAK-STAT SIGNALING PATHWAY



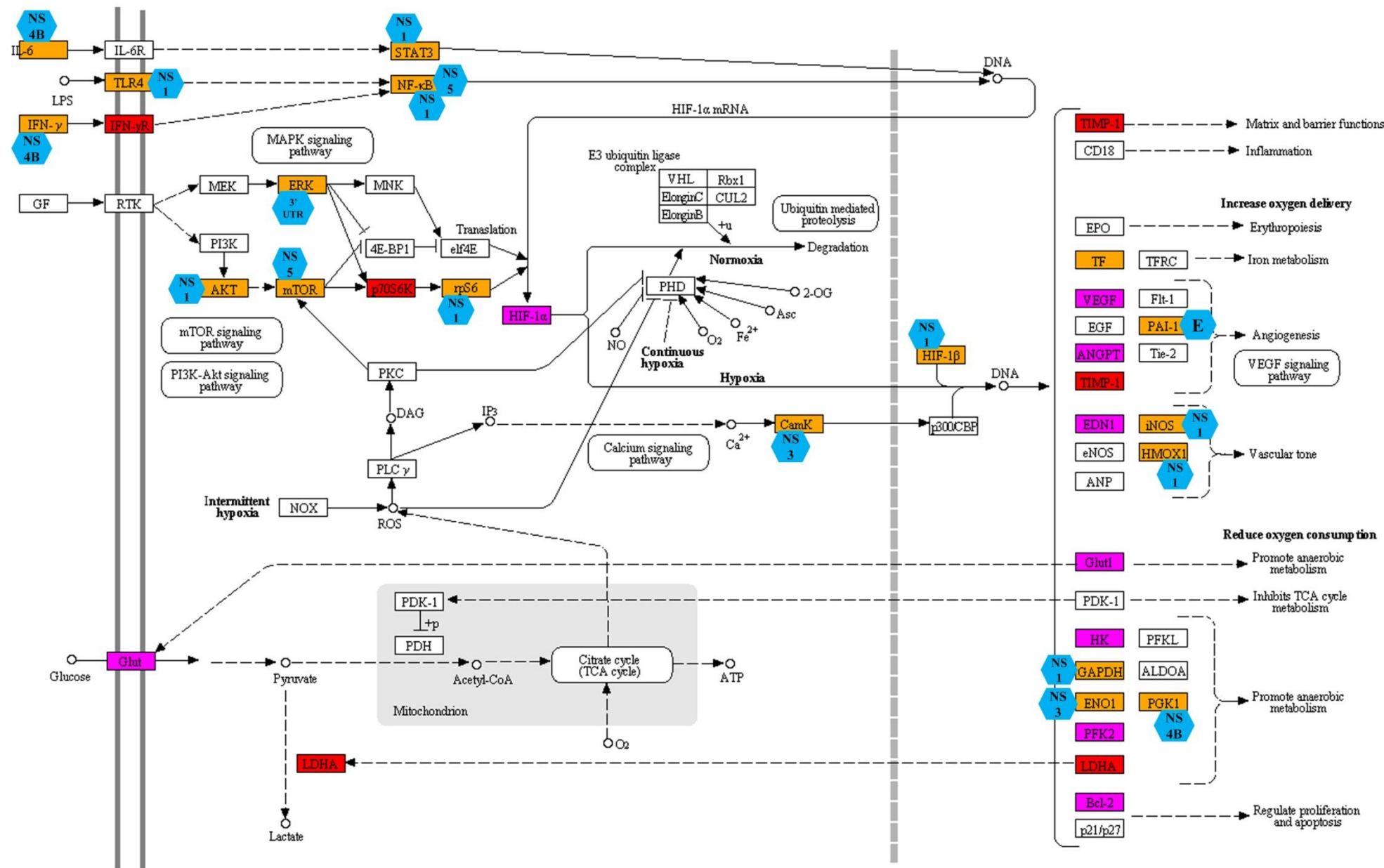
e

MAPK SIGNALING PATHWAY

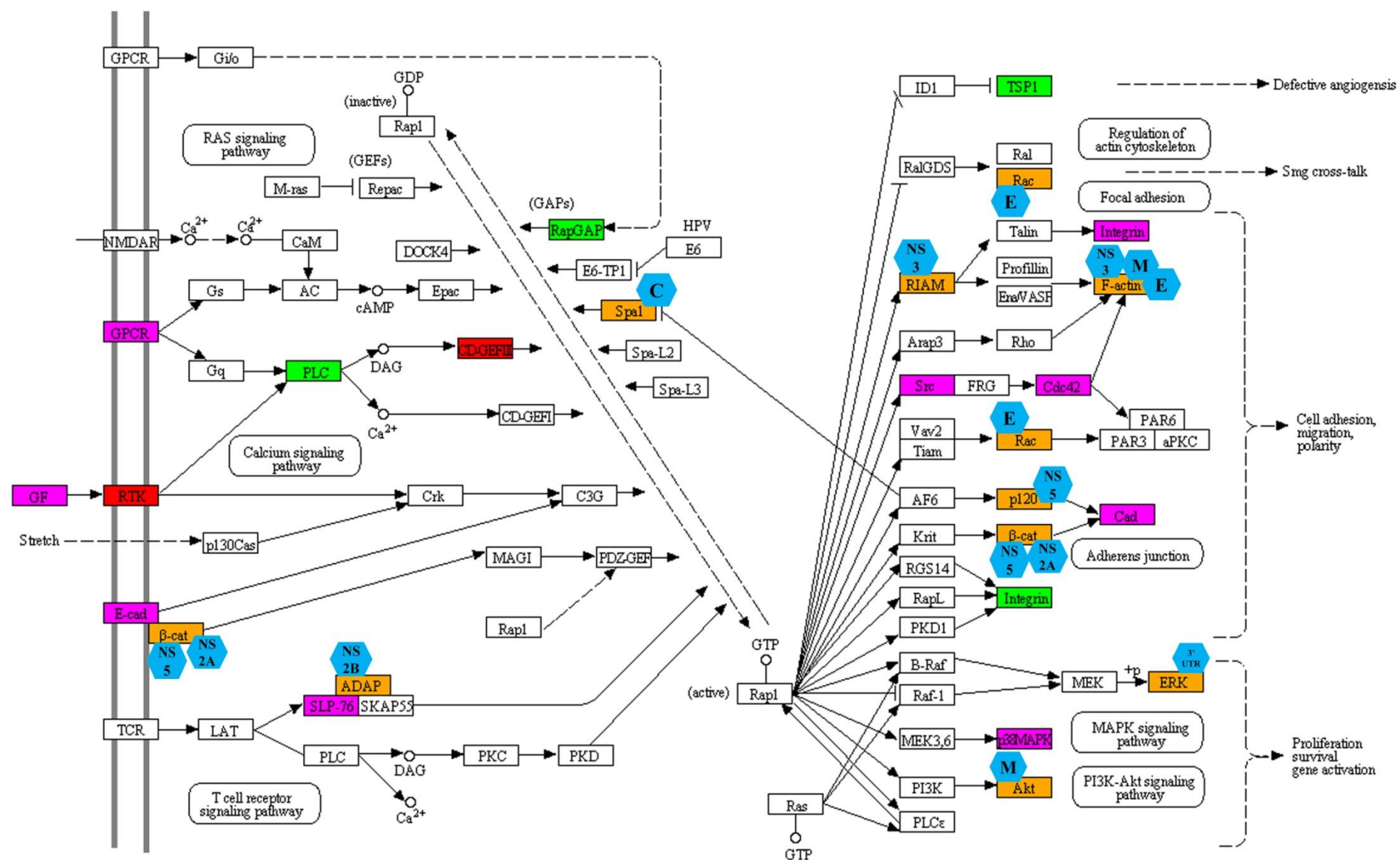


f

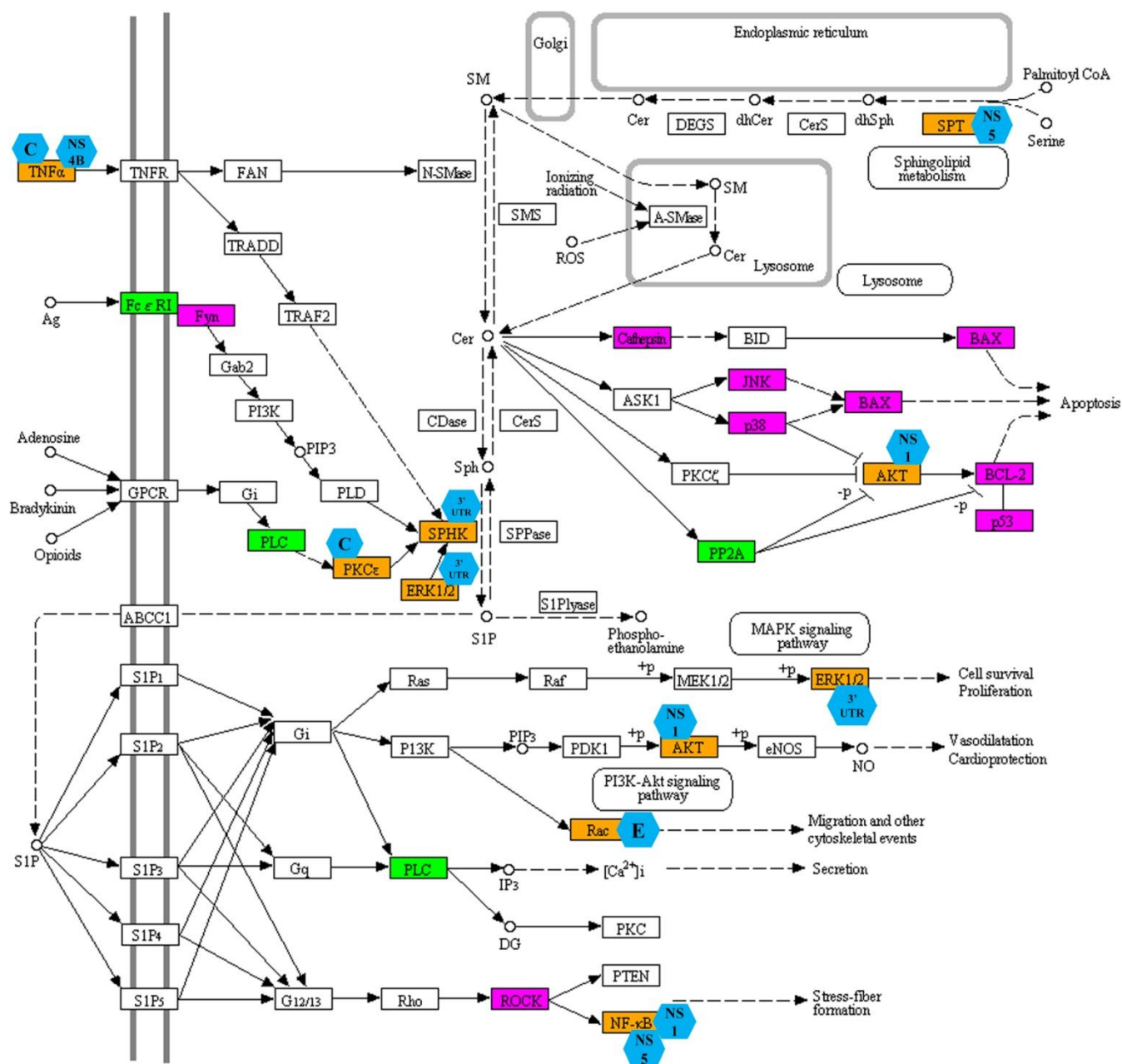
HIF-1 SIGNALING PATHWAY



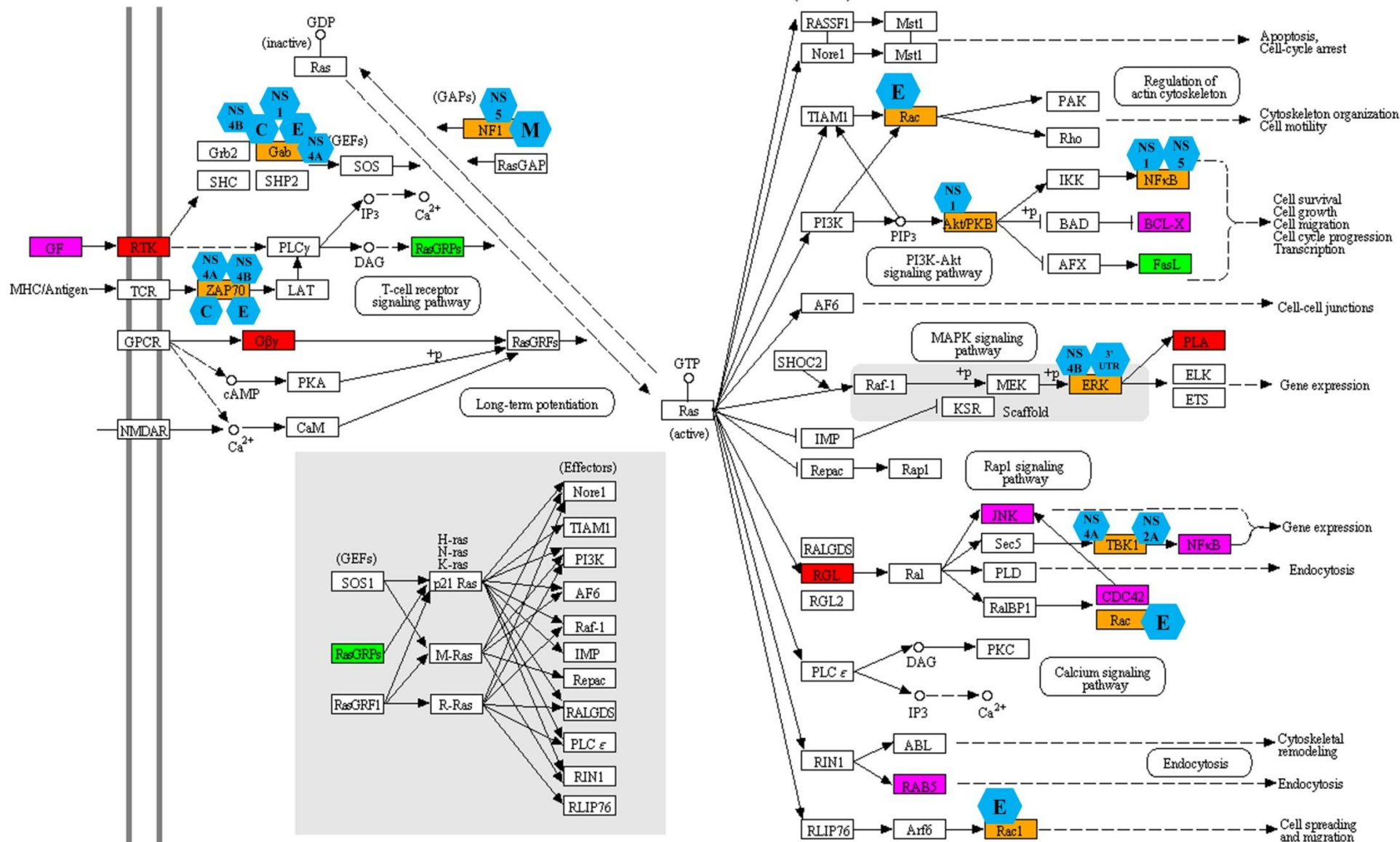
RAP1 SIGNALING PATHWAY



SPHINGOLIPID SIGNALING PATHWAY

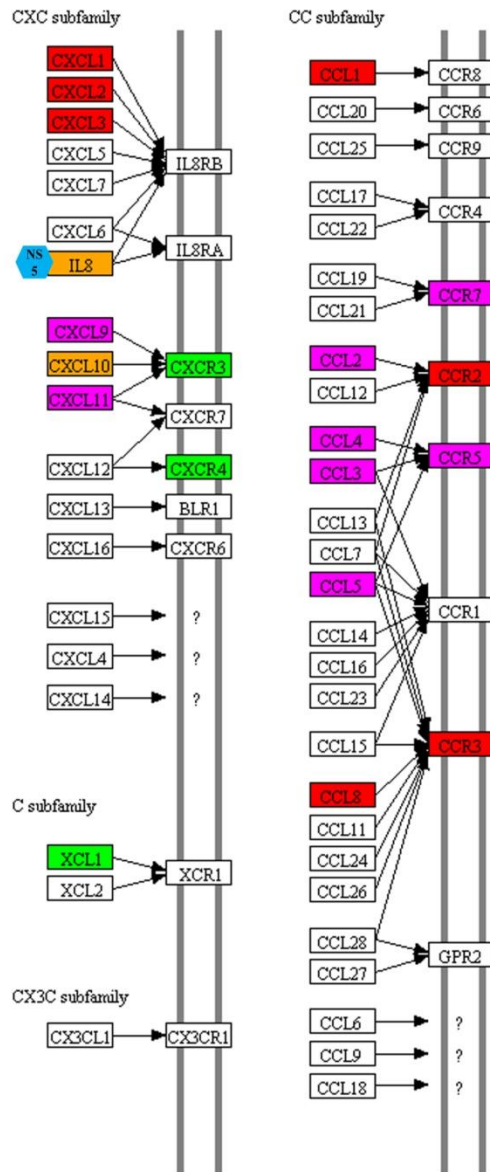


RAS SIGNALING PATHWAY

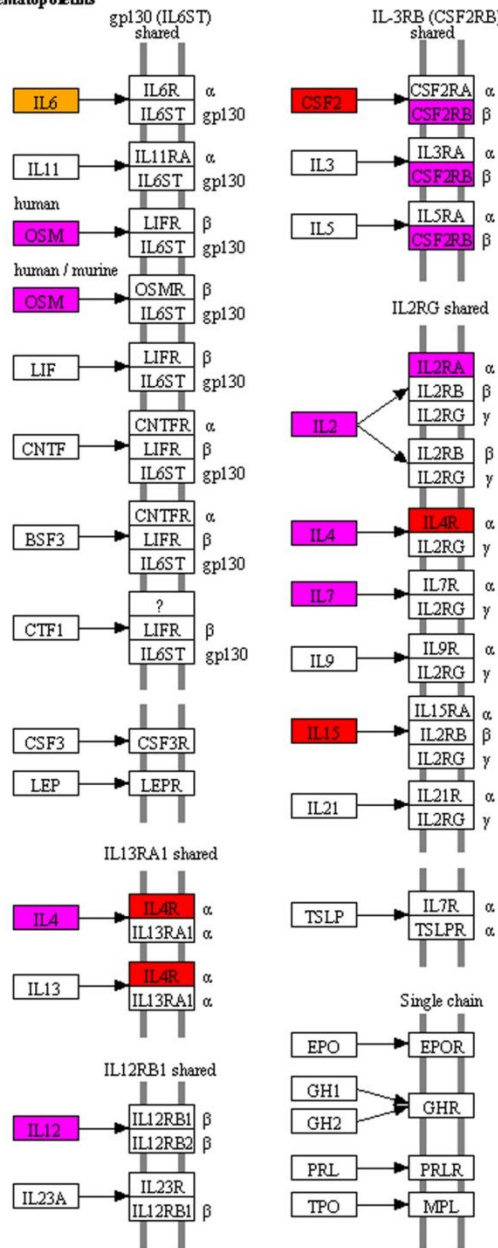


CYTOKINE-CYTOKINE RECEPTOR INTERACTION

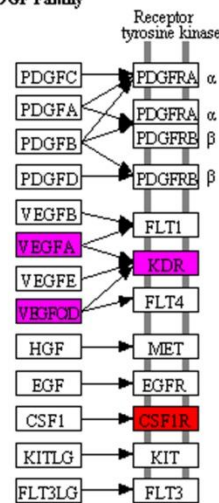
Chemokines



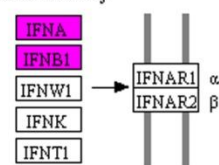
Hematopoietins



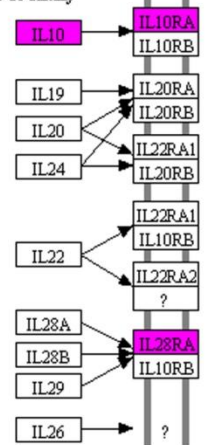
PDGF Family



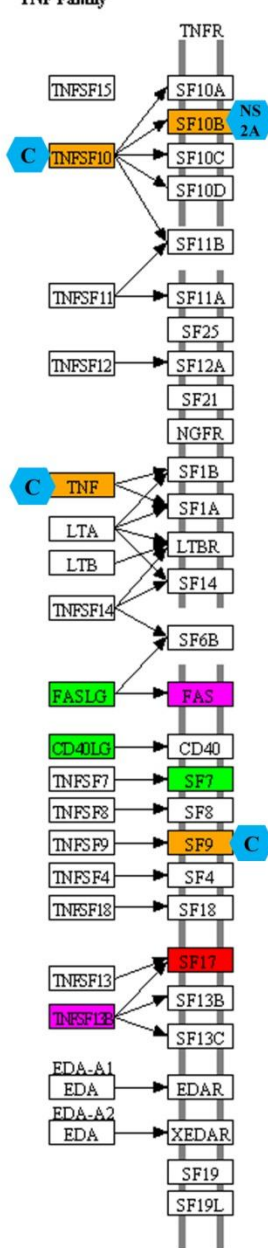
Interferon family



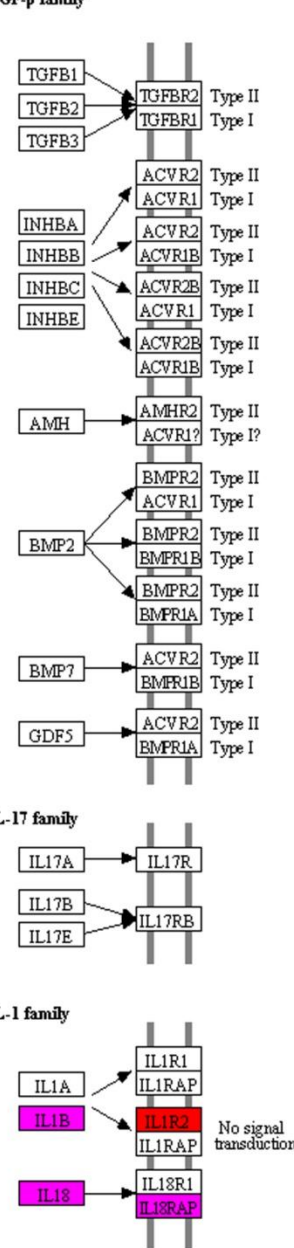
IL-10 family



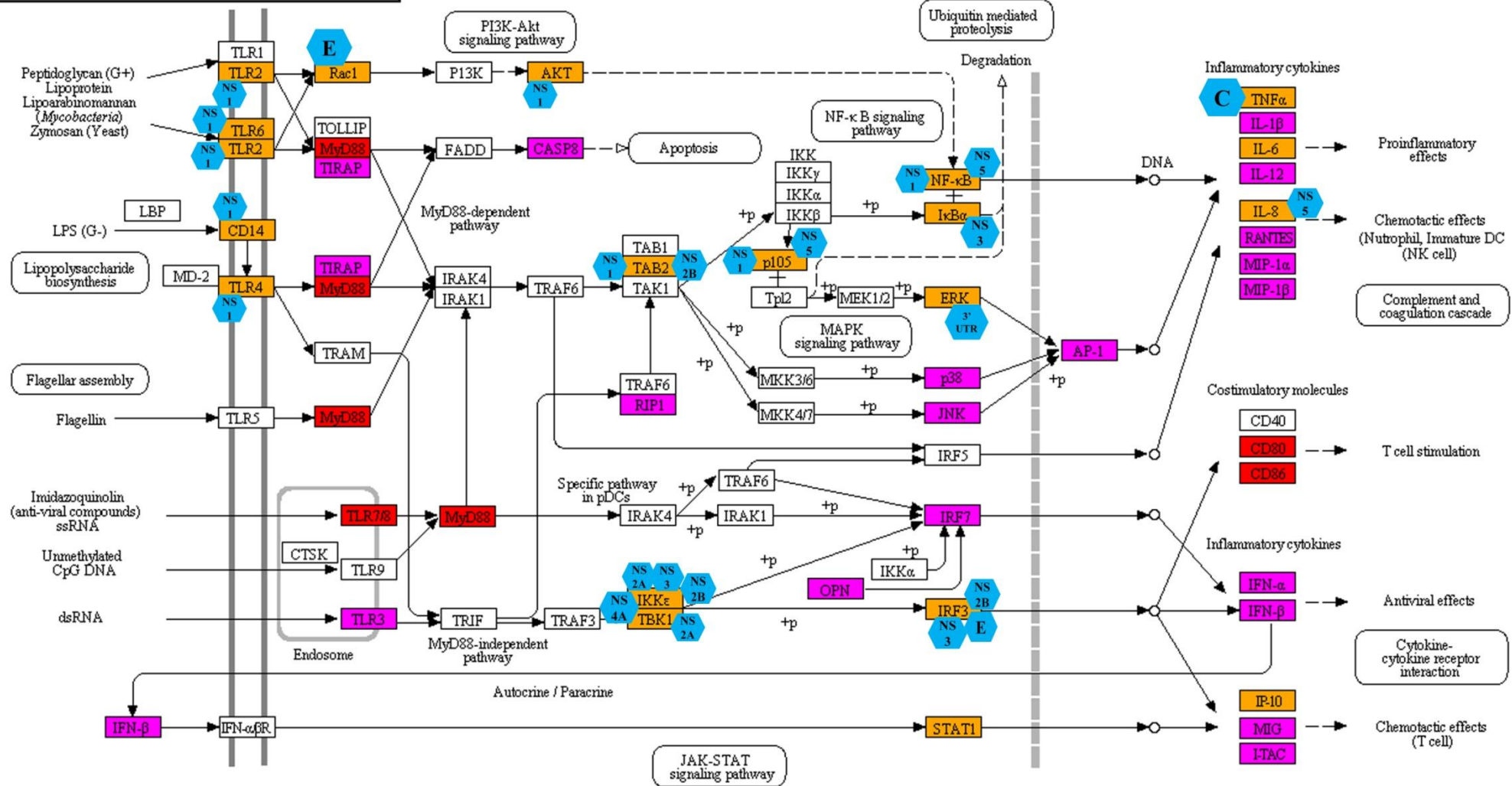
TNF Family



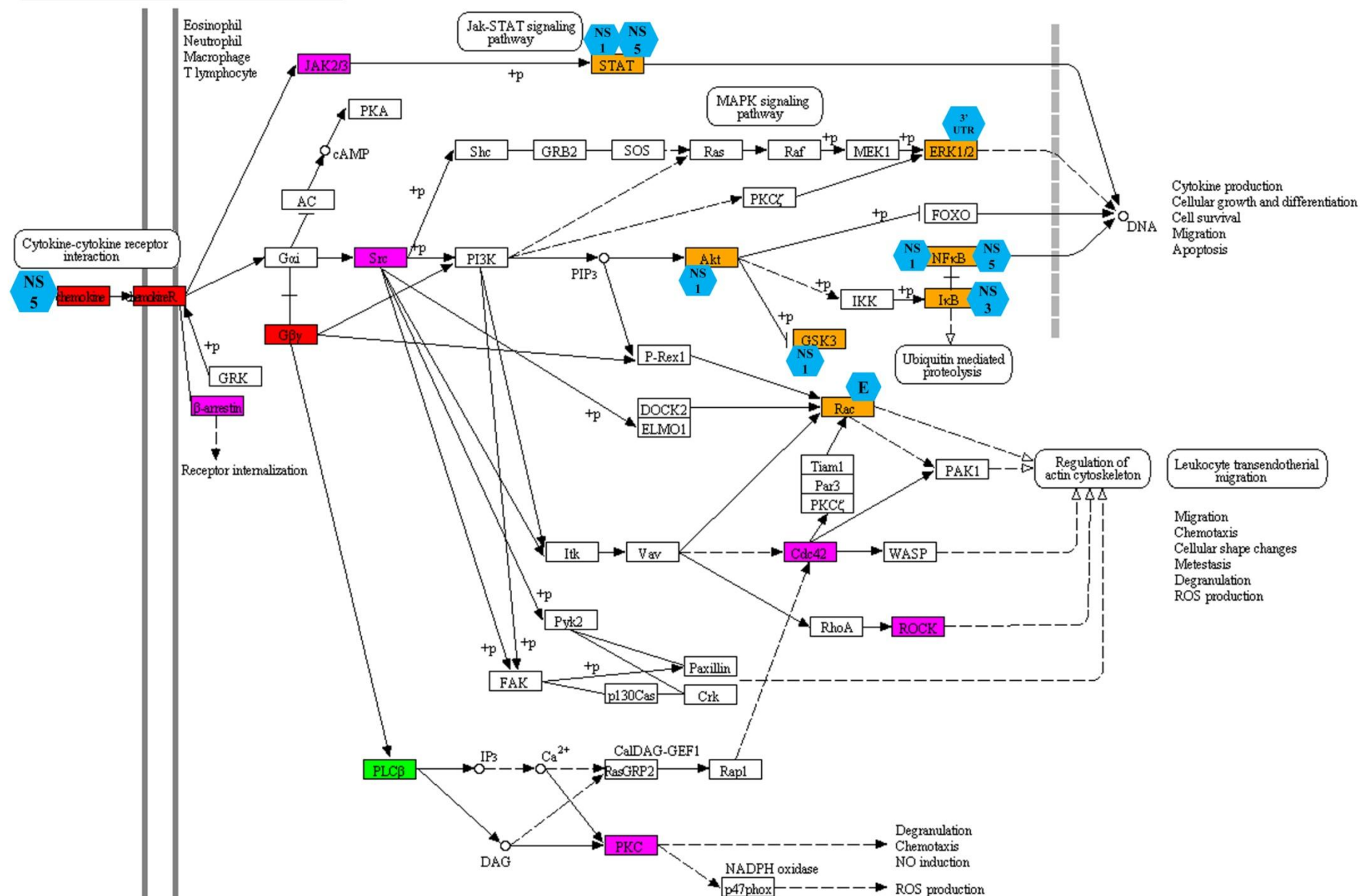
TGF-β family



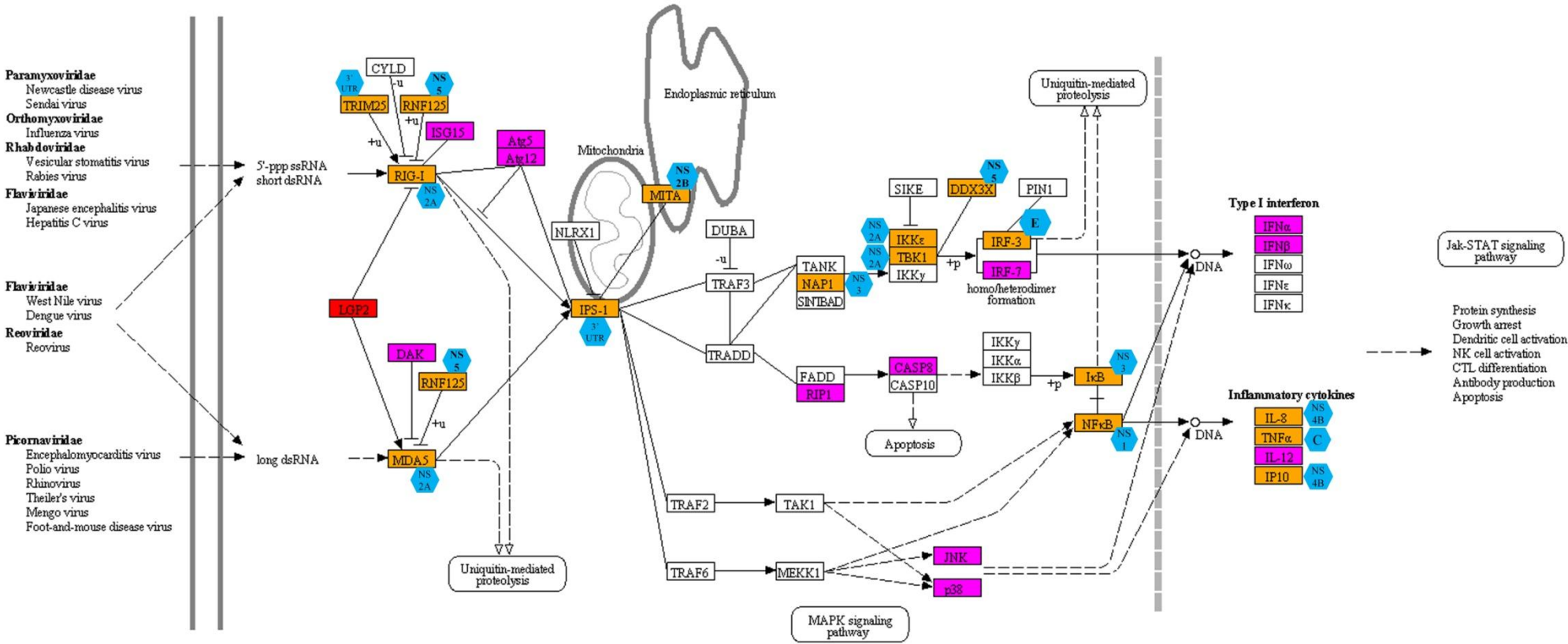
TOLL-LIKE RECEPTOR SIGNALING PATHWAY



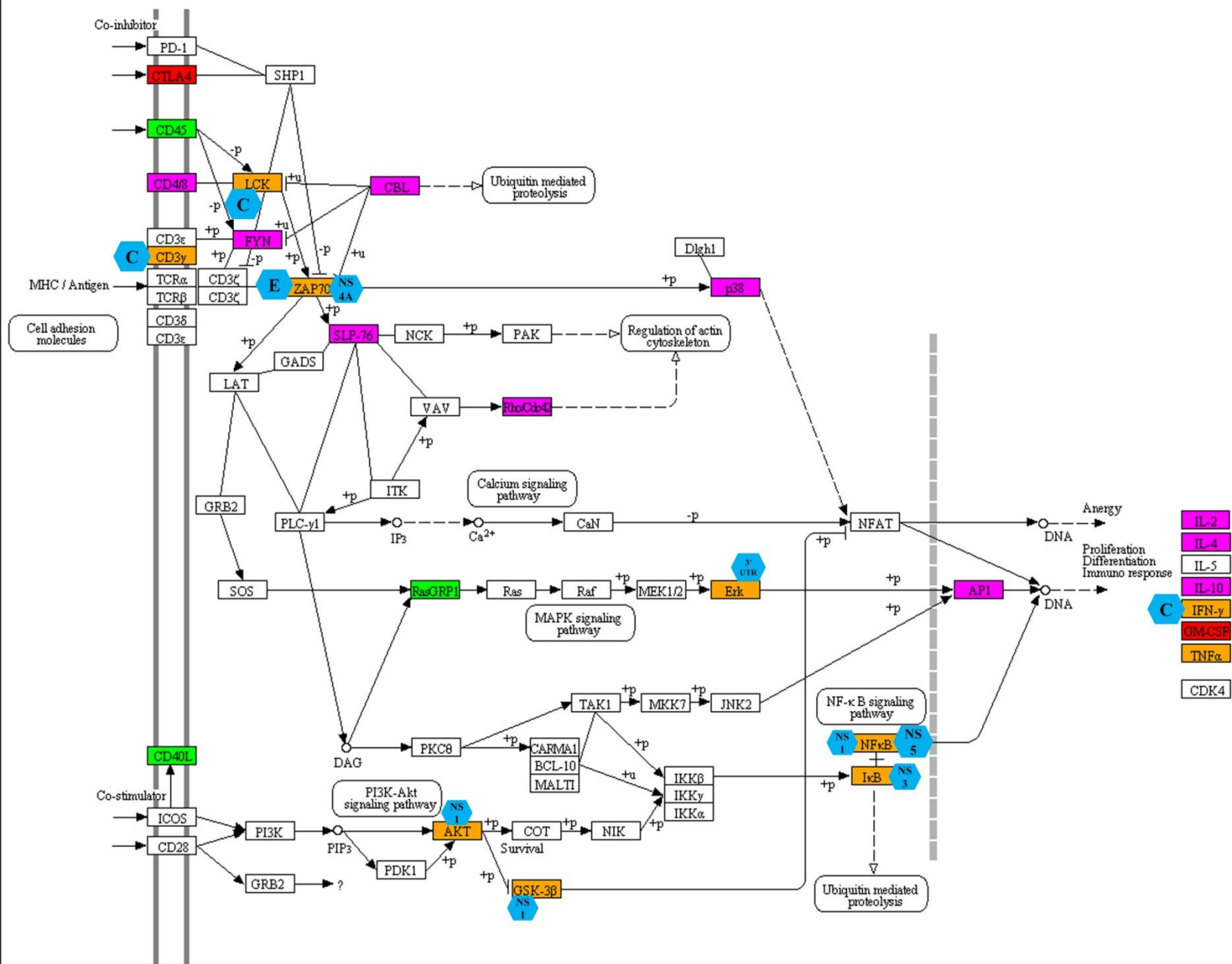
CHEMOKINE SIGNALING PATHWAY



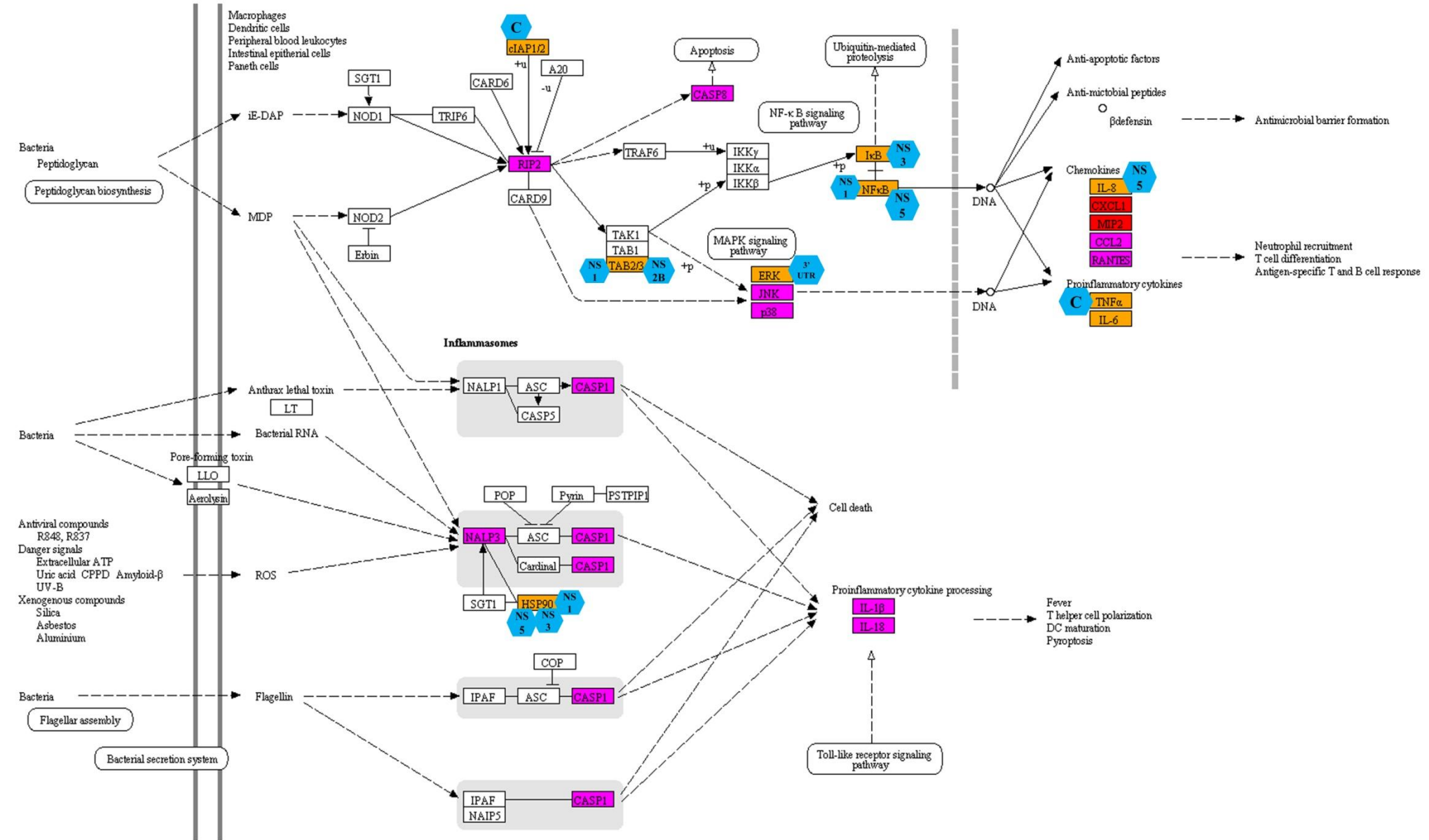
RIG-I-LIKE RECEPTOR SIGNALING PATHWAY



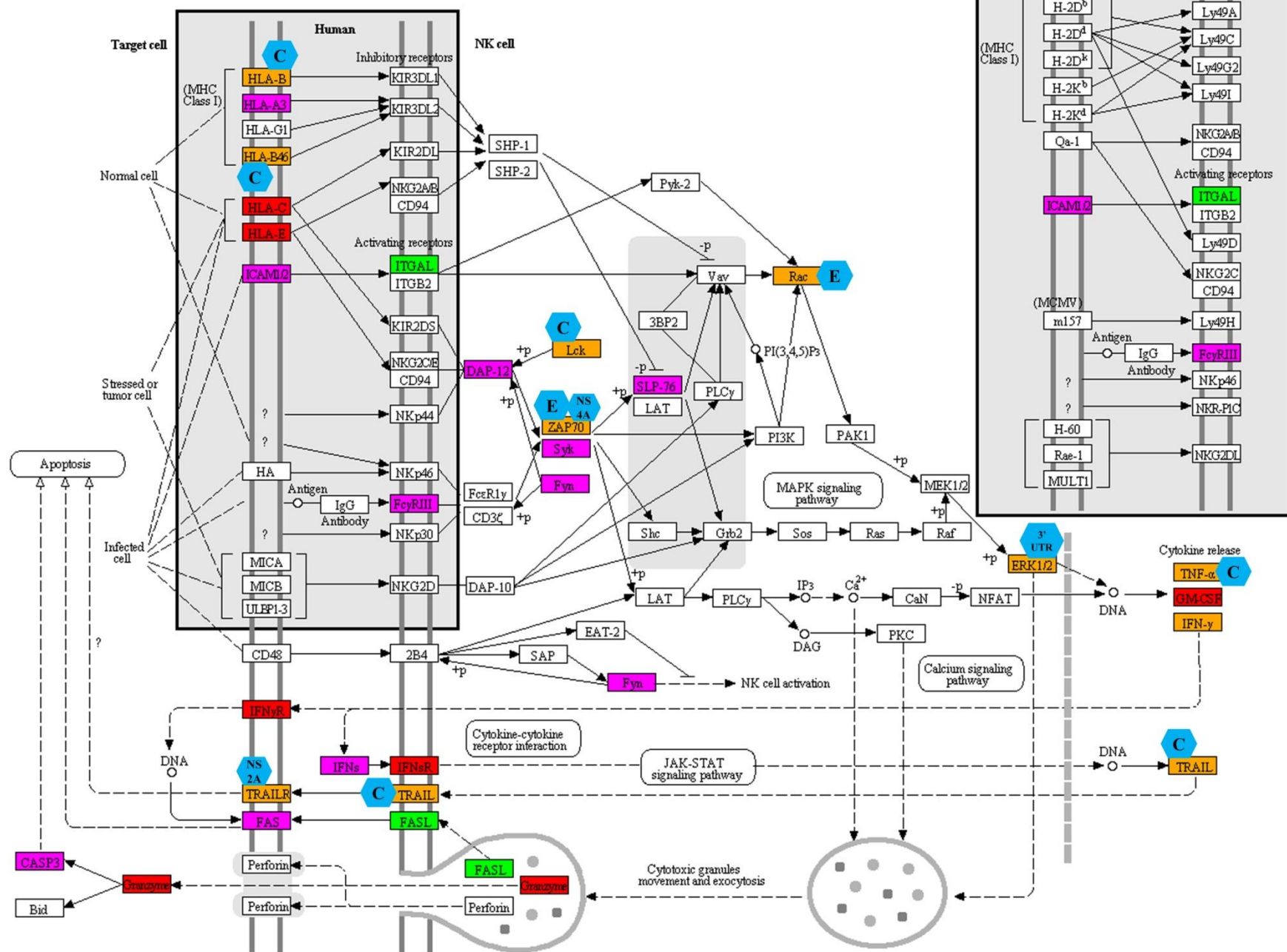
T CELL RECEPTOR SIGNALING PATHWAY



NOD-LIKE RECEPTOR SIGNALING PATHWAY

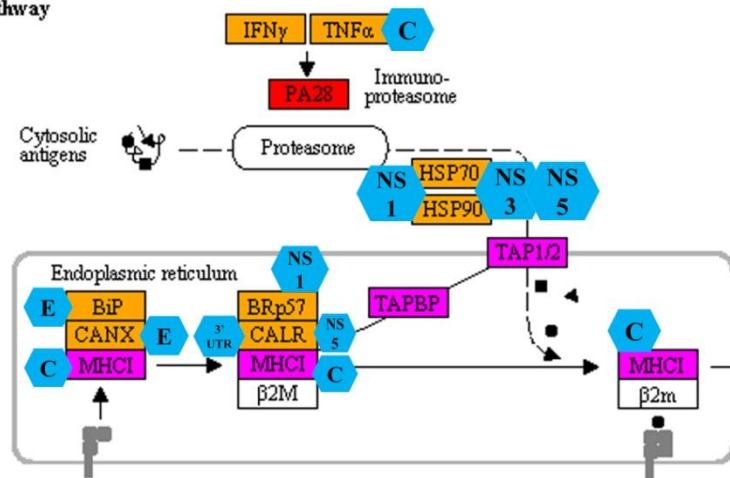


NATURAL KILLER CELL MEDIATED CYTOTOXICITY

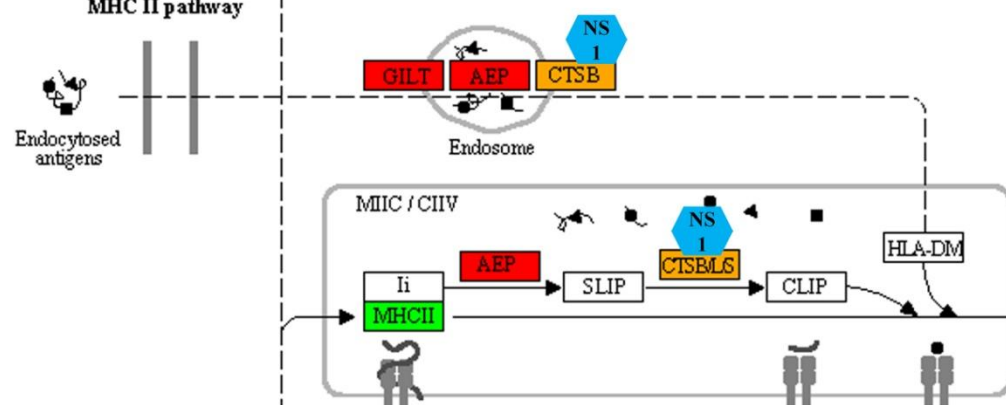


ANTIGEN PROCESSING AND PRESENTATION

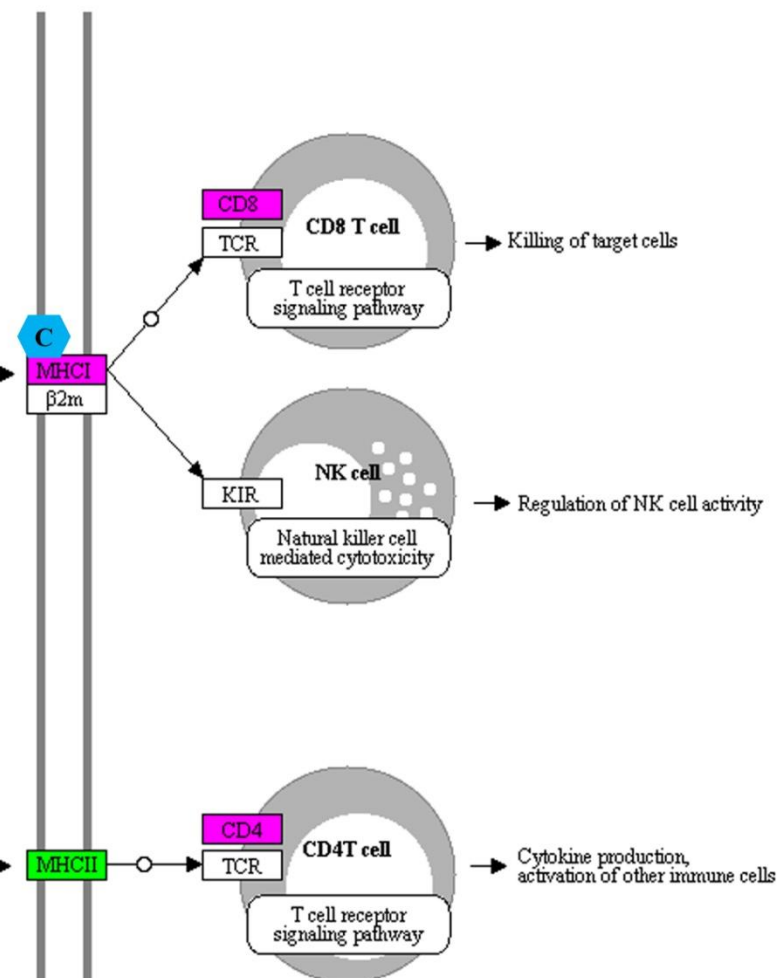
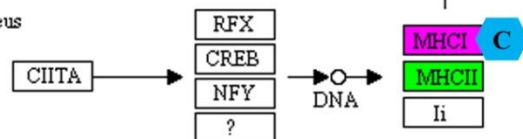
MHC I pathway



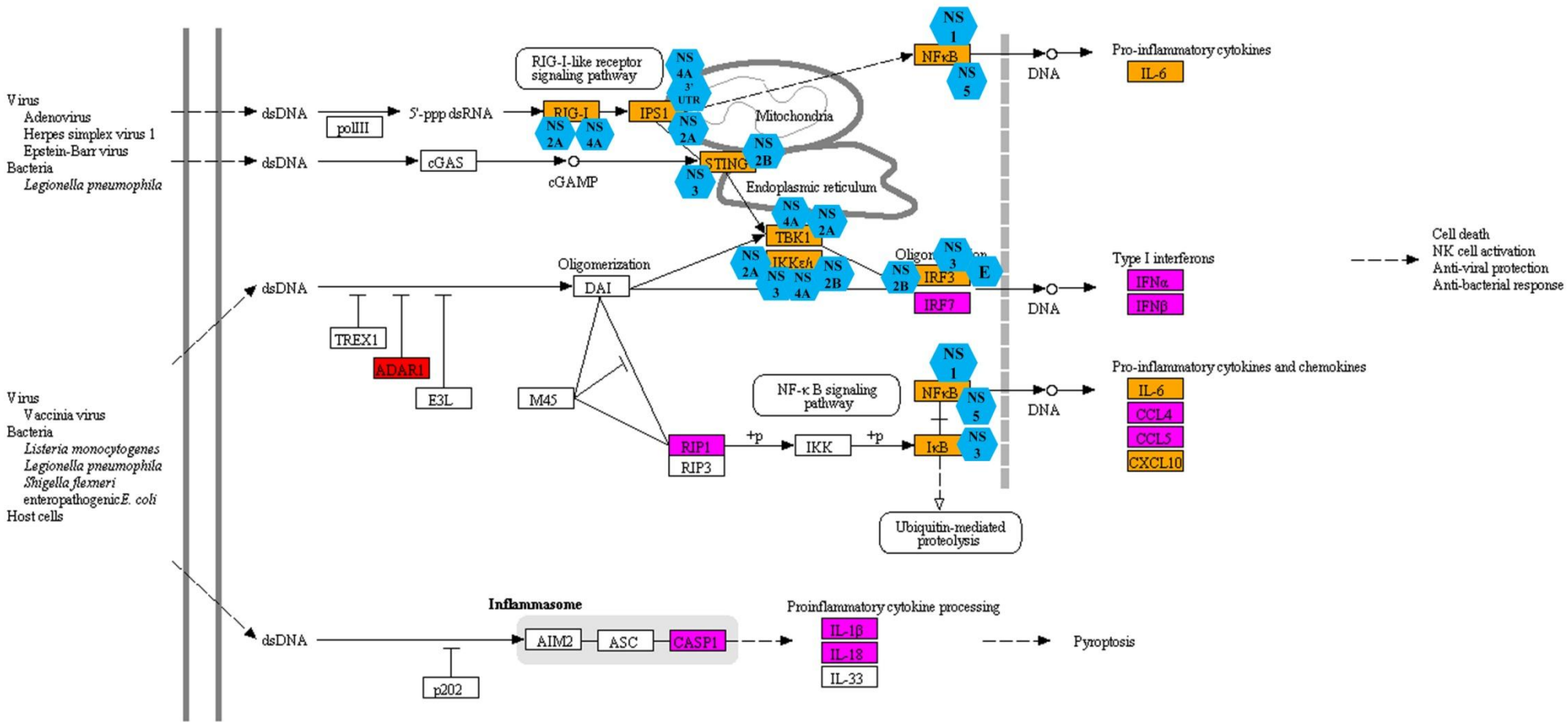
MHC II pathway



Nucleus



CYTOSOLIC DNA-SENSING PATHWAY



LEUKOCYTE TRANSENDOTHELIAL MIGRATION

