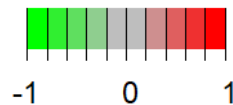
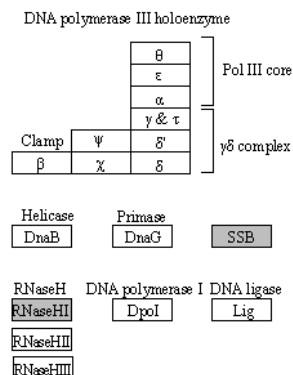
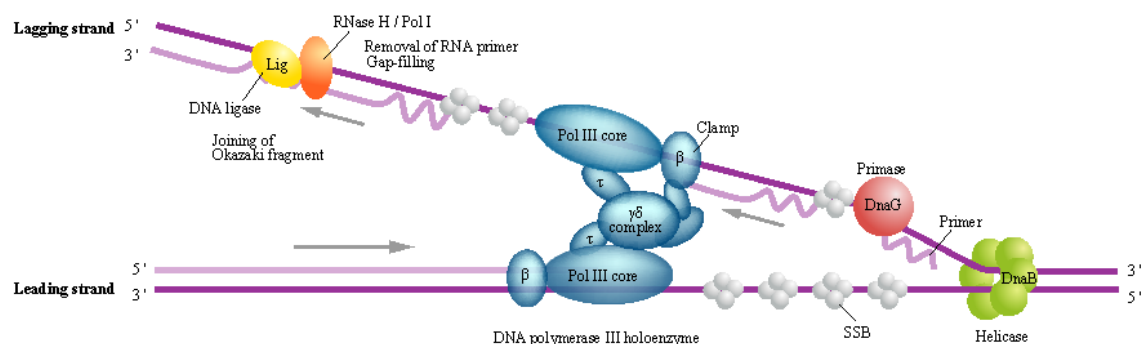


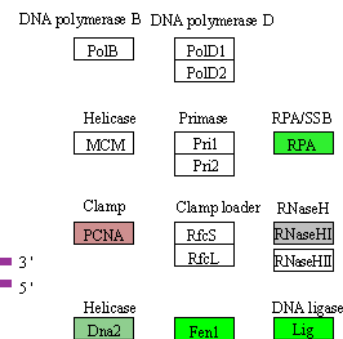
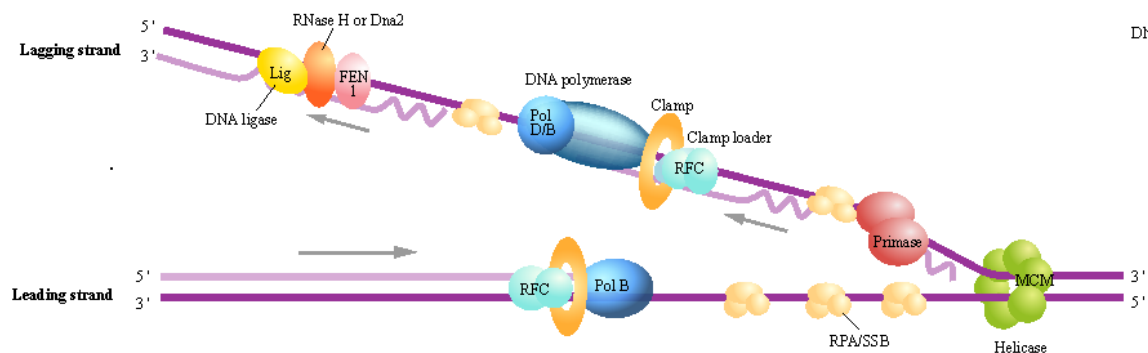
DNA REPLICATION



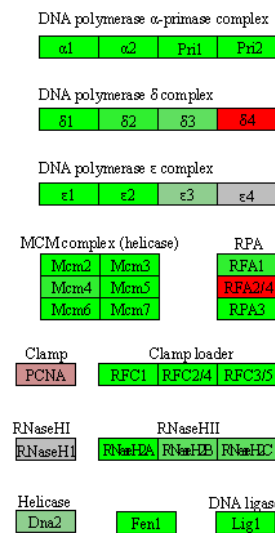
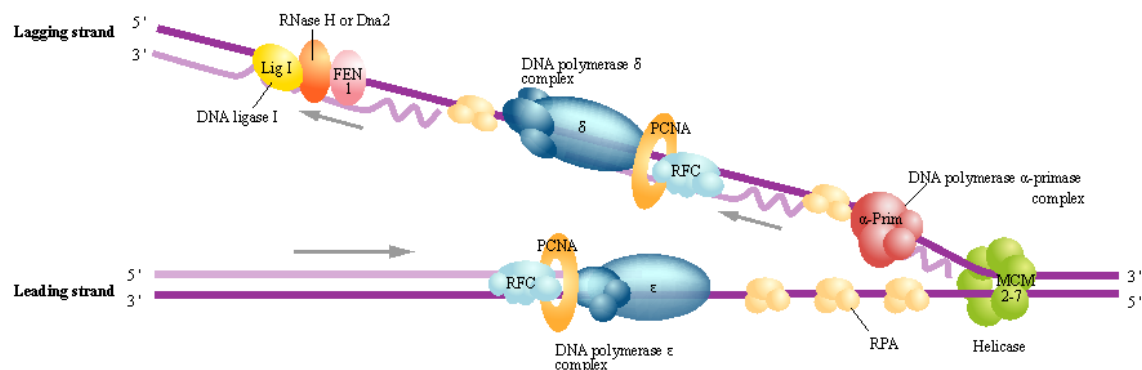
Replication complex (Bacteria)



Replication complex (Archaea)

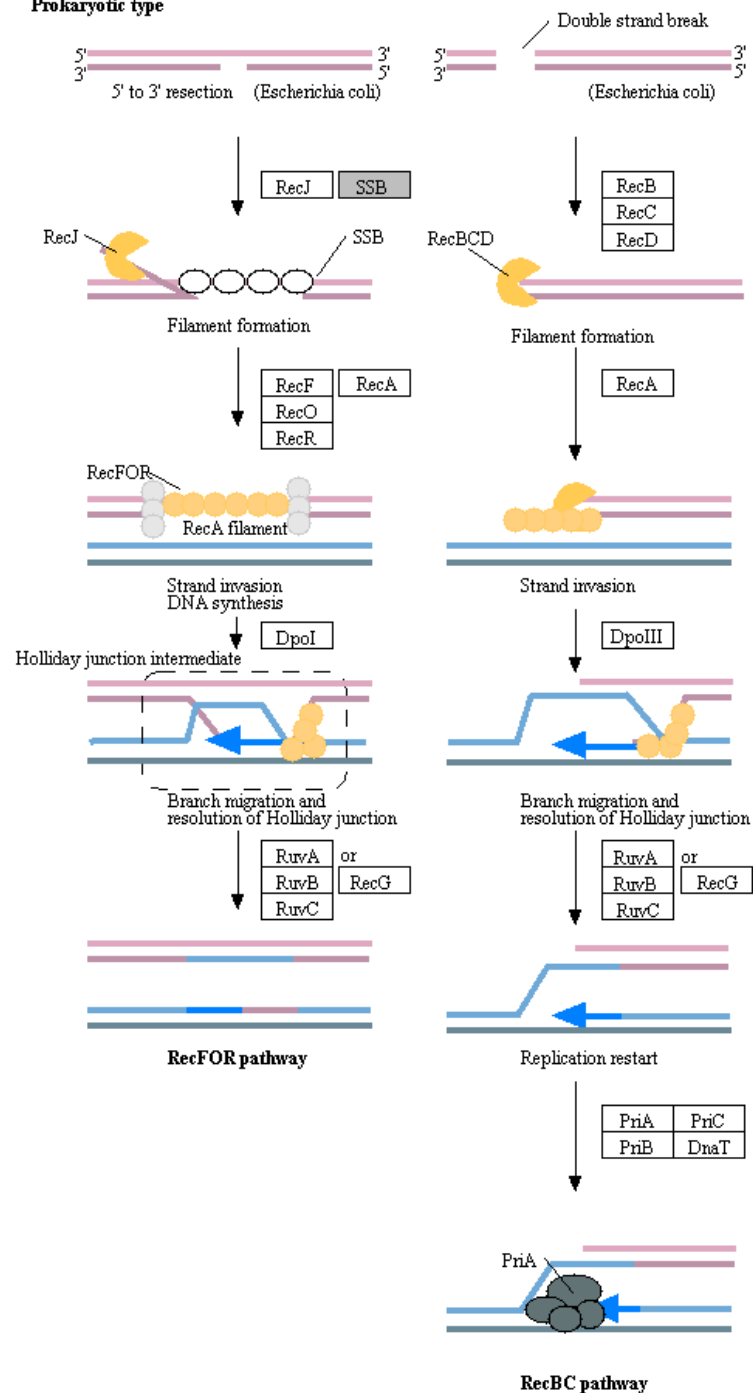


Replication complex (Eukaryotes)

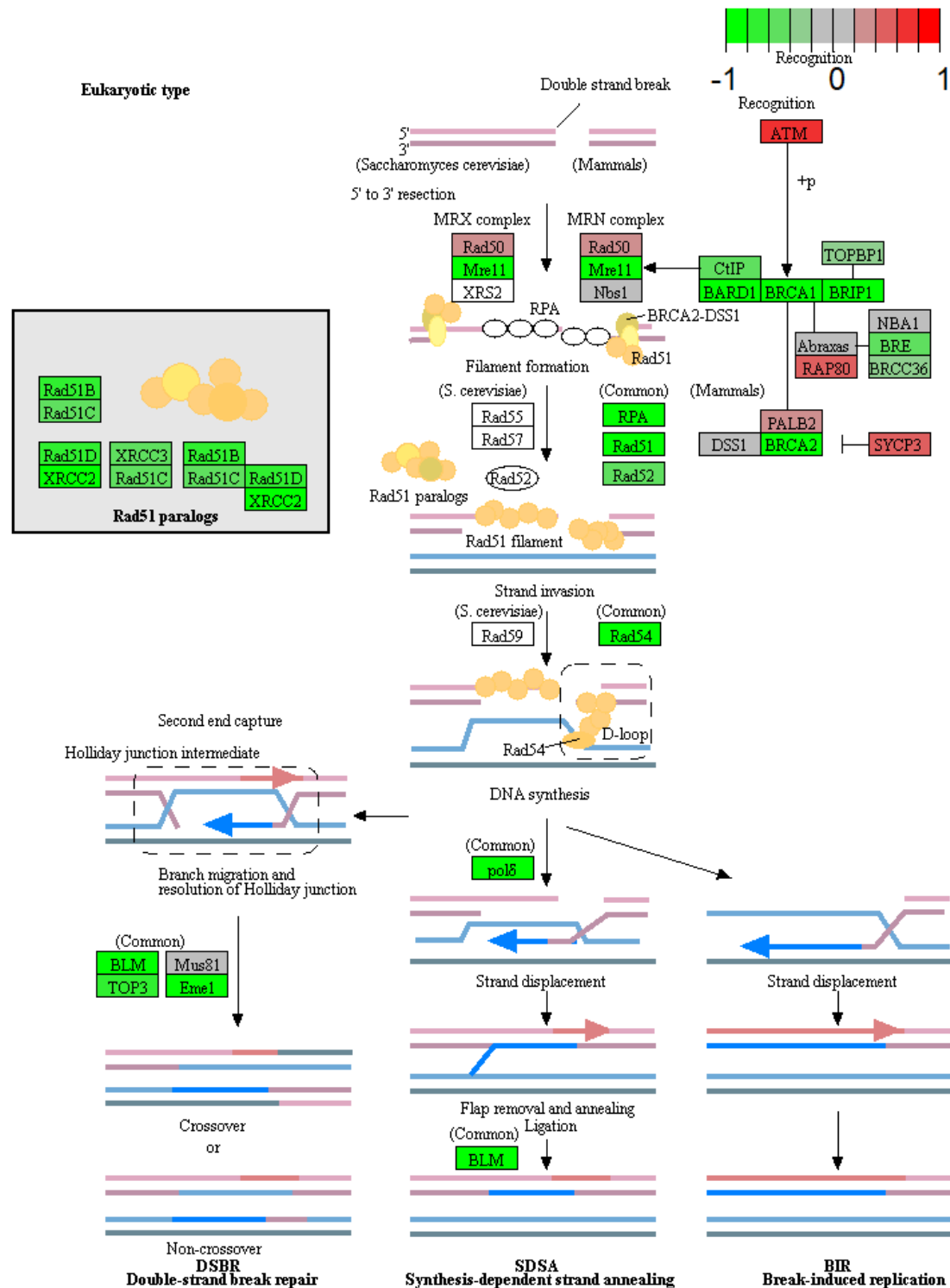


HOMOLOGOUS RECOMBINATION

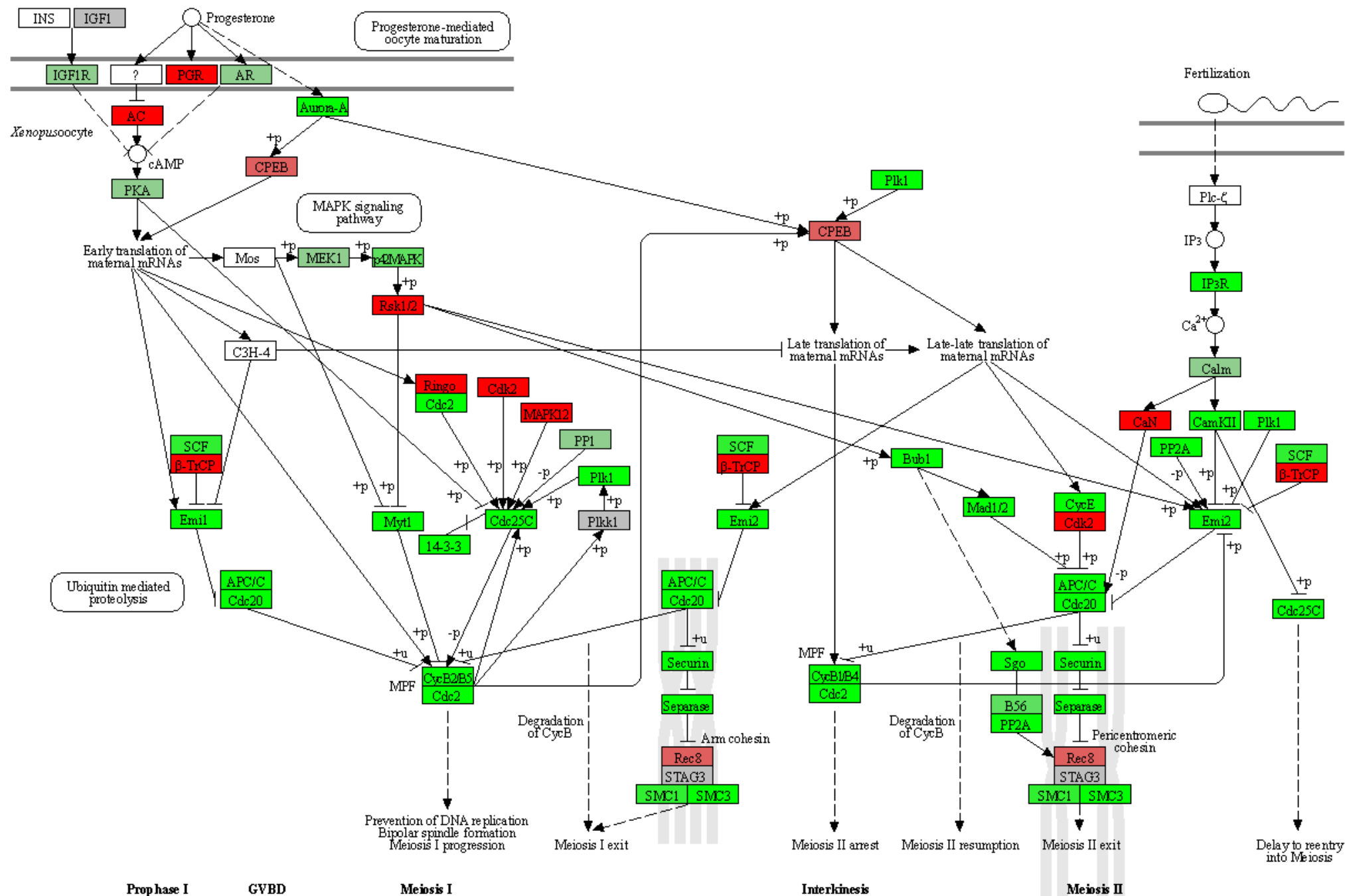
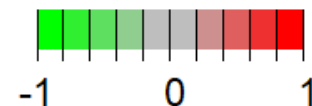
Prokaryotic type



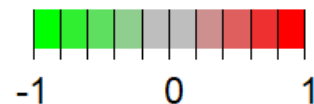
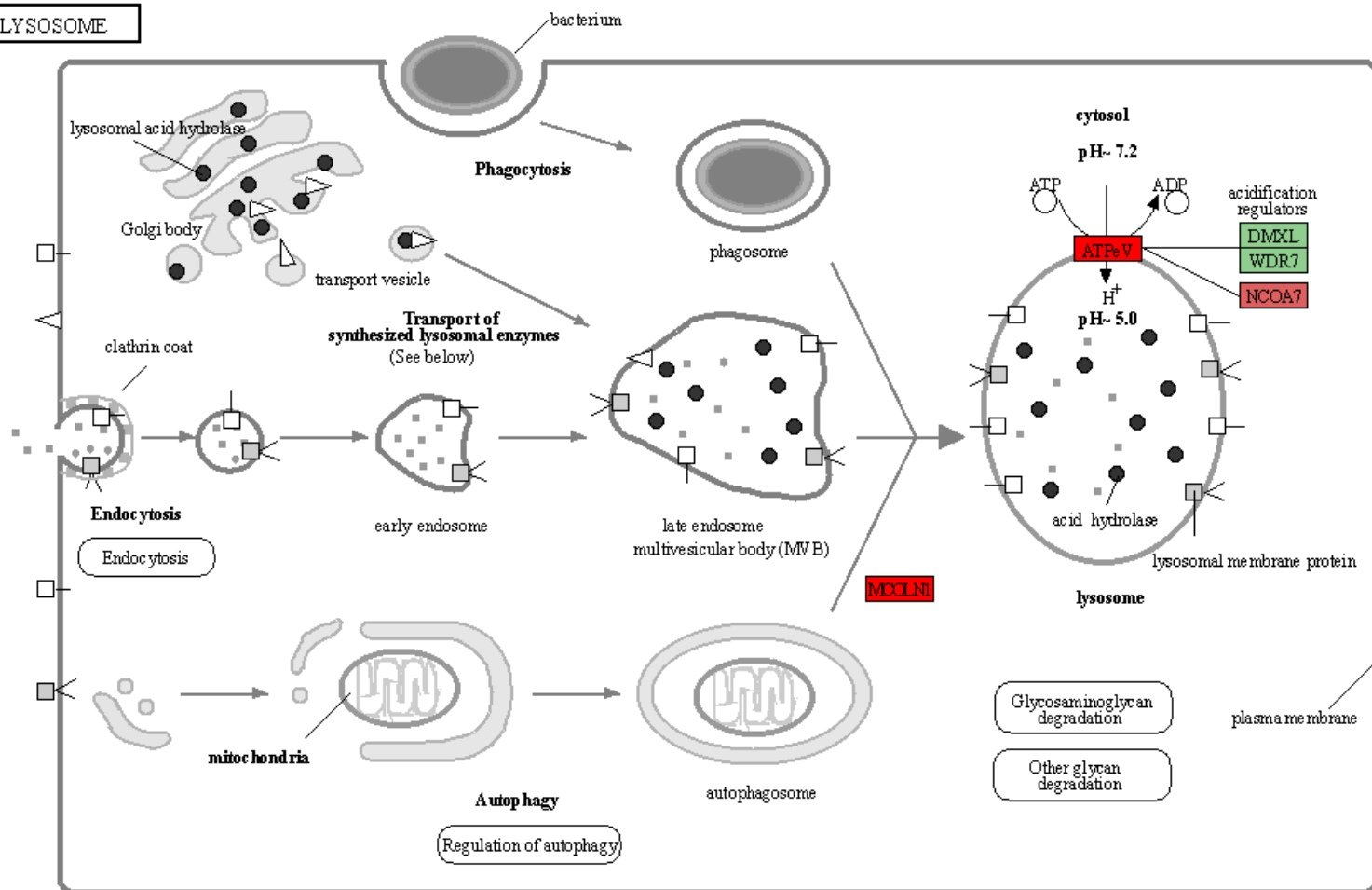
Eukaryotic type



OOCYTE MEIOSIS



LYSOSOME



lysosomal acid hydrolases

proteases

cathepsins napsin LGPN TPP1

glycosidases

GLA GLB GAA GBA IDUA
NAGA NAGLU GALC GUSB FUCA1
HEXA/B MANB LAMAN NEU1 HYAL1

sulfatases

ARS GALNS GNS IDS SGSH

lipases

LIPA LYPLA3

sphingomyelinase

SMPD1

Other lysosomal enzymes and activators

saposin GM2A CLN1

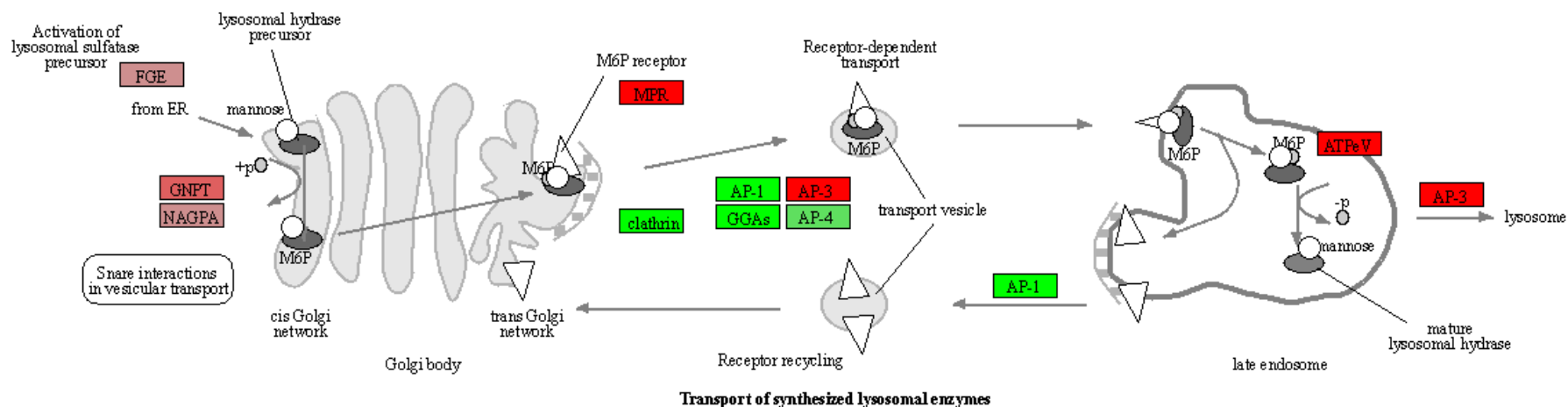
lysosomal membrane proteins

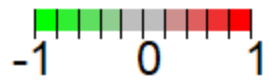
major lysosomal membrane proteins

LAMP LIMP

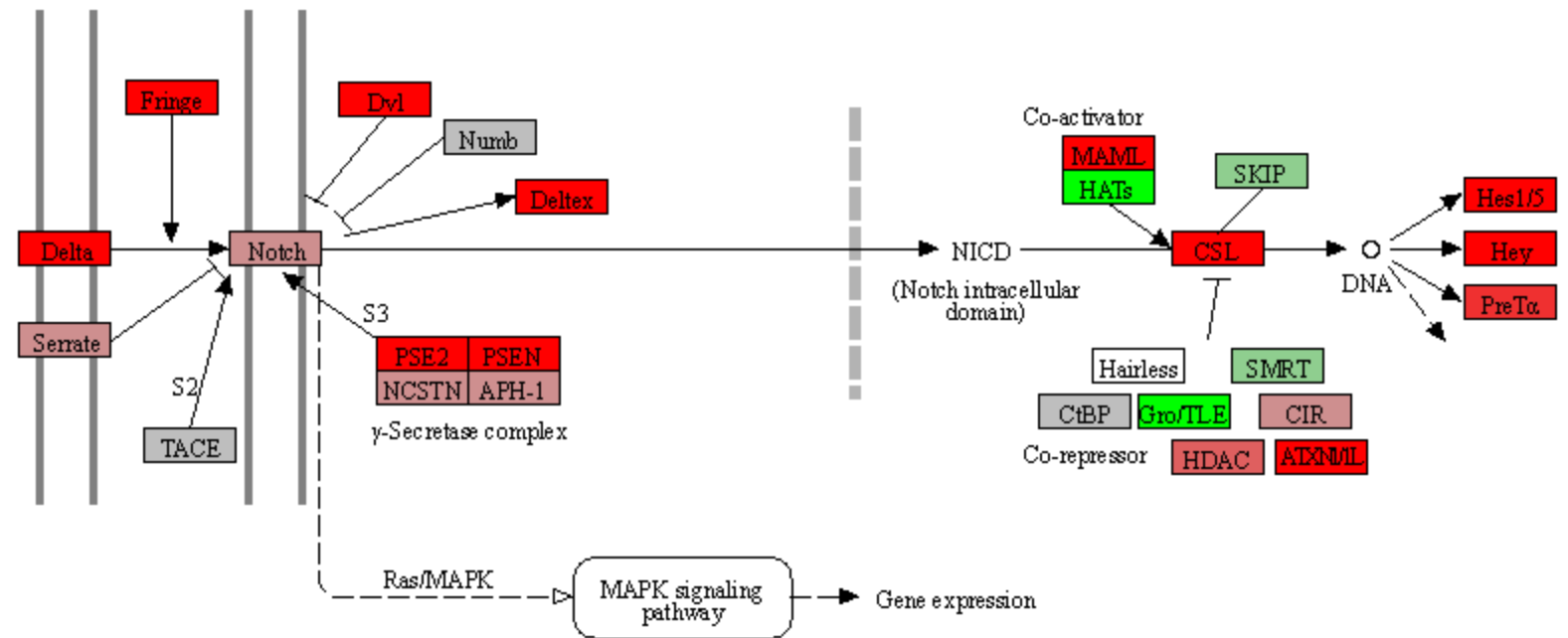
minor lysosomal membrane proteins

NPC cystosin sialin NRAMP LAPTM
ABCA2 ABCB9 ACP2 endolym LALP70
sortilin CLN3 CLN5 CLN7 HGSNAT
MDCLN1 LITAF

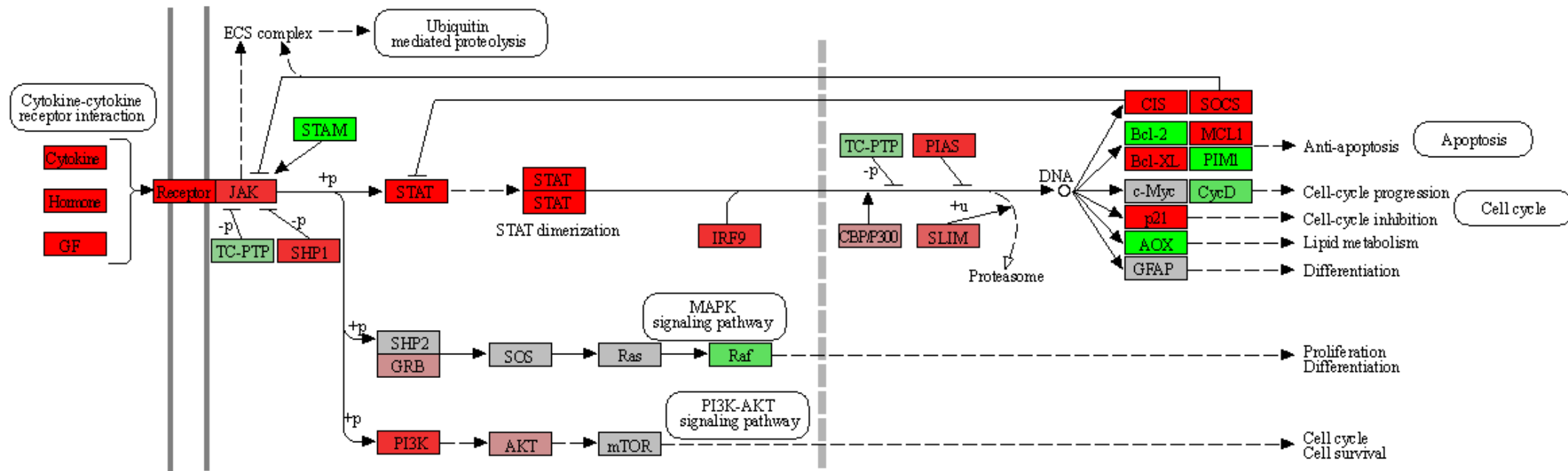
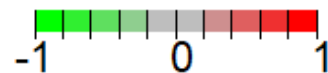




NOTCH SIGNALING PATHWAY



JAK-STAT SIGNALING PATHWAY



HEMATOPOIETIC CELL LINEAGE

