

c-Myc PROTEIN OVERVIEW

Myc genes (L-Myc, N-Myc and C-Myc) are a family of transcription factors. c-Myc is involved in transcription regulation, apoptosis and cell growth. Mutations in c-Myc have been tied to several cancers.

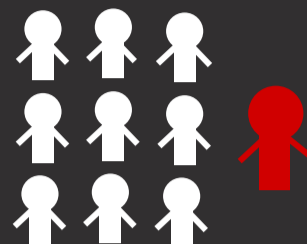
GENE INFORMATION



Human
Name: MYC
Entrez: 4609
Uniprot: P01106

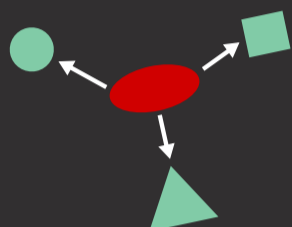
FAMILY

Belongs to:
Myc Family



PATHWAYS

- Notch
- ErbB signaling
- MAPK signaling
- MEK/ERK signaling
- Wnt receptor signaling



MOLECULAR WEIGHT



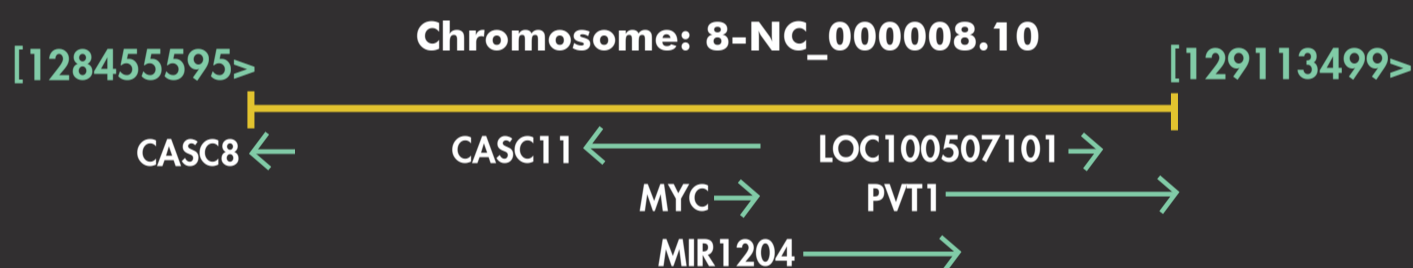
Theoretical Molecular Weight: 49 kDa

Bands have been observed at a higher molecular weight due to post translational modifications such as phosphorylation.

GENOMIC CONTEXT

Location: 8q24.21

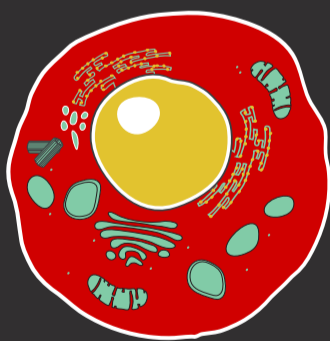
Sequence: Chromosome: 8; NC_000008.10 (128748315..128753680)



SUBCELLULAR LOCALIZATION

Nucleus:

- Nucleoplasm
- Nucleolus



INTERACTING PROTEINS

- TRAPP
- MAX
- PIAS2
- MAPK1
- BRCA1



DISEASES

- Burkitt lymphoma
- Leukemia
- Neoplasms
- Various Forms of Cancer



PTMs

- Phosphorylation
- Glycosylation
- Acetylation
- Ubiquitination

