

# Recombinant Full-length Human MYC Protein, His-avi-tagged, Biotin Labeled

Cat. No. MYC-01HFL    Lot. No. (See product label)

## SPECIFICATION

### Product Overview

Biotin Labeled recombinant Full-length Human MYC Protein (1-454aa) with His-avi-tag was expressed in E.coli.

### Species

Human

### Source

E.coli

### ProteinLength

1-454aa

### Conjugation/Label

Biotin

### Description

This gene is a proto-oncogene and encodes a nuclear phosphoprotein that plays a role in cell cycle progression, apoptosis and cellular transformation. The encoded protein forms a heterodimer with the related transcription factor MAX. This complex binds to the E box DNA consensus sequence and regulates the transcription of specific target genes. Amplification of this gene is frequently observed in numerous human cancers. Translocations involving this gene are associated with Burkitt lymphoma and multiple myeloma in human patients. There is evidence to show that translation initiates both from an upstream, in-frame non-AUG (CUG) and a downstream AUG start site, resulting in the production of two isoforms with distinct N-termini.

### Form

Sterile PBS, pH7.4, 0.1% SKL

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 45-1 Ramsey Road, Shirley, NY 11967, USA

|                             |   |
|-----------------------------|---|
| <b>Molecular Mass</b>       | 53 kDa  |
| <b>AASequence</b>           | MHHHHHHHHGLNDIFEAQKIEWHEMDFFRVVENQQPPATMPLNVSFTNRNYDLDY<br>DSVQPYFYCDEEENFYQQQQQSEIQPPAPSEDIWKKFELLPTPPLSPSRRSGLCSP<br>SYVAVTPFSLRGDNDGGGGSFSTADQLEMVTELLGGDMVNQSFICDPDDETFIKNIII<br>QDCMWSGFSAAKLVSEKLSYQAARKDSGSPNPARGHSVCSTSSLYLQDLSAAA<br>SECIDPSVVPYPLNDSSSPKSCASQDSSAFSPSSDLLSSTESSPQGSPEPLVLHE<br>ETPPTTSSDSEEEQEDEEEIDVVSVEKRQAPGKRSESGSPSAGGHSKPPHSPLVLK<br>RCHVSTHQHNYAAPSTRKDYPAAKRVKLDsvrvlrqisnnrkctsprssdteenv<br>KRRTHNVLERQRRNELKRSFFALRDQIPELENNEKAPKVILKKATAYILSVQAEQK<br>LISEEDLLRKRREQLKHKLEQLRNSCA |
| <b>Purity</b>               | >90% by SDS-PAGE  |
| <b>Storage</b>              | Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.   |
| <b>Concentration</b>        | 1.18 mg/mL by BCA   |
| <b>Labelling Efficiency</b> | 4.54 by HABA  |
| <b>GENE INFORMATION</b>     |   |
| <b>Gene Name</b>            | MYC MYC proto-oncogene, bHLH transcription factor [ Homo sapiens (human) ]  |
| <b>Official Symbol</b>      | MYC   |
| <b>Synonyms</b>             | MYC; MYC proto-oncogene, bHLH transcription factor; MRTL; MYCC; c-Myc; bHLHe39; myc proto-oncogene protein; avian myelocytomatosis viral oncogene homolog; class E basic helix-loop-helix protein 39; myc-related translation/localization regulatory factor; proto-oncogene c-Myc; transcription factor p64; v-myc avian   |

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myelocytomatosis viral oncogene homolog; v-myc myelocytomatosis viral oncogene homolog

**Gene ID** 4609

**mRNA Refseq** NM\_002467

**Protein Refseq** NP\_002458

**MIM** 190080

**UniProt ID** P01106

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