

# Recombinant Human MYC, His-tagged

**Cat. No.** MYC-38H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human MYC (Pro2-Ala439), fused with N-terminal 6x histidine tag, was expressed in E.coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>    | 2-439 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | The protein encoded by this gene is a multifunctional, nuclear phosphoprotein that plays a role in cell cycle progression, apoptosis and cellular transformation. It functions as a transcription factor that regulates transcription of specific target genes. Mutations, overexpression, rearrangement and translocation of this gene have been associated with a variety of hematopoietic tumors, leukemias and lymphomas, including Burkitt lymphoma. There is evidence to show that alternative translation initiations from an upstream, in-frame non-AUG (CUG) and a downstream AUG start site result in the production of two isoforms with distinct N-termini. The synthesis of non-AUG initiated protein is suppressed in Burkitt's lymphomas, suggesting its importance in the normal function of this gene. |
| <b>Form</b>             | Lyophilized powder. Lyophilized from a 0.2 µ filtered solution in PBS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Molecular Mass</b>   | 51 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Endotoxin</b>        | Not determined                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | >85%                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Applications</b>   | ELISA, EIA, Western Blotting, Dot Blotting, Immunoprecipitation, Protein Array, Functional Assay, etc.                                                                                                                                                                                                                                                                                                                                                               |
| <b>Storage</b>        | Upon arrival, the lyophilized protein may be stored for 2 weeks at 4°C. For long term storage, it is recommended to store desiccated below -20°C in a manual defrost freezer. Following reconstitution, the protein may be stored for 2 weeks under sterile conditions at -20°C. For long term storage, it is recommended to make appropriate aliquots and store at -80°C. Avoid repeated freeze-thaw cycles.                                                        |
| <b>Preservative</b>   | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Reconstitution</b> | Briefly spin the vial and bring the contents to the bottom prior to opening. It is recommended to reconstitute at 0.5~1.17 mg/mL with sterile deionized water.                                                                                                                                                                                                                                                                                                       |
| <b>Shipping</b>       | Upon arrival, the lyophilized products may be stored for 2 weeks at 4 °C. For long term storage, it is recommended to be stored desiccated below -20 °C in a manual defrost freezer. Following reconstitution, the protein may be stored for 2 weeks under sterile conditions at 4 °C. For long term storage, it is recommended to add a carrier protein (0.1% HSA or BSA) and store at -20 °C or -80 °C in appropriate aliquots. Avoid repeated freeze-thaw cycles. |

## GENE INFORMATION

|                        |                                                                                                                           |
|------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | MYC v-myc myelocytomatosis viral oncogene homolog (avian) [ Homo sapiens ]                                                |
| <b>Official Symbol</b> | MYC                                                                                                                       |
| <b>Synonyms</b>        | MYC; MRTL; c-Myc; bHLHe39; myc proto-oncogene protein;<br>OTTHUMP00000158589; OTTHUMP0000022- 7763; proto-oncogene c-Myc; |

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transcription factor p64; class E basic helix-loop-helix protein 39; avian myelocytomatosis viral oncogene homolog; v-myc avian myelocytomatosis viral oncogene homolog; myc-related translation/localization regulatory factor; Proto-oncogene c-Myc; Transcription factor p64; Class E basic helix-loop-helix protein 39

|                            |                                                                                                          |
|----------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>             | 4609                                                                                                     |
| <b>mRNA Refseq</b>         | NM_002467                                                                                                |
| <b>Protein Refseq</b>      | NP_002458                                                                                                |
| <b>MIM</b>                 | 190080                                                                                                   |
| <b>UniProt ID</b>          | P01106                                                                                                   |
| <b>Chromosome Location</b> | 8q24.21                                                                                                  |
| <b>Pathway</b>             | Acute myeloid leukemia; C-MYC pathway; Constitutive Signaling by NOTCH1 HD+PEST Domain Mutants           |
| <b>Function</b>            | DNA binding; E-box binding; protein binding; sequence-specific DNA binding transcription factor activity |

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