

## Recombinant Human MYC, Arg-tagged

Cat. No. MYC-39H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Myc Human Recombinant produced in E.Coli is a single, non-glycosylated, Polypeptide chain containing 439 amino acids and having a molecular mass of 48.8kDa. The Myc is fused to a C-terminal poly-arginine tag and purified by proprietary chromatographic techniques.

**Species** Human

**Source** E.coli

**ProteinLength** 439 a.a.

**Description** 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.

**Form** Sterile Filtered White lyophilized (freeze-dried) powder. Myc was lyophilized after extensive dialysis against PBS.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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

<b>Molecular Mass</b>	48.8 kDa
<b>AA Sequence</b>	The sequence of the first five N-terminal amino acids was determined and was found to be Met-Pro-Leu-Asn-Val.
<b>Purity</b>	Greater than 95.0% as determined by SEC-HPLC and SDS-PAGE.
<b>Stability</b>	Lyophilized Myc although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Myc should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.
<b>Reconstitution</b>	It is recommended to reconstitute the lyophilized Myc in sterile PBS not less than 100g/ml, which can then be further diluted to other aqueous solutions.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">MYC v-myc myelocytomatosis viral oncogene homolog (avian) [ Homo sapiens ]</a>
<b>Official Symbol</b>	MYC
<b>Synonyms</b>	MYC; MRTL; c-Myc; bHLHe39; myc proto-oncogene protein; OTTHUMP00000158589; OTTHUMP0000022- 7763; proto-oncogene c-Myc; 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- ne c-Myc; Transcription factor p64; Class E basic helix-loop-helix protein 39
<b>Gene ID</b>	<a href="#">4609</a>
<b>mRNA Refseq</b>	<a href="#">NM_002467</a>

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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



<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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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