

Recombinant Human MYC Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. MYC-060H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MYC MS Standard C13 and N15-labeled recombinant protein (NP_002458) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	50.5 kDa
AA Sequence	Tags(s)LDFFRVVENQQPPATMPLNVSFTNRNYDL DYDSVQPYFYCDEEENFYQQQ QQSELQPPAPSEDIWKKFELLPTPPLSPSRRSGLCSPSYVAVTPFSLRGDNDGGGG SFSTADQLEMVTELLGGDMVNQSFICDPDETFIKNIIIQDCMWSGFSAALKLVSEKL

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ASYQAARKDSGSPNPARGHSVCSTSSLYLQDLSAAASECIDPSVVPYPLNDSSSP
KSCASQDSSAFSPSSDLSLSTESSPQGSPEPLVLHEETPPTTSSDSEEEQEDEEEI
DVVSVEKRQAPGKRSESGSPSAGGHSKPPHSPLVLKRCHVSTHQHNYAAPSTRK
DYPAAKRVKLDsvrvlrqisnnrkctsprssdteenvkrrthnvlerqrrnelkrs
FFALRDQIPELENNEKAPKVVLKKATAYILSVQAEQKLISEEDLLRKRREQLKHKLE
QLRNSCATRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	MYC MYC proto-oncogene, bHLH transcription factor [Homo sapiens (human)]
Official Symbol	MYC
Synonyms	MYC; MYC proto-oncogene, bHLH transcription factor; bHLHe39; c-Myc; MRTL; MYCC; 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 myelocytomatosis viral oncogene homolog; v-myc myelocytomatosis viral oncogene homolog;

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Gene ID	4609
mRNA Refseq	NM_002467
Protein Refseq	NP_002458
MIM	190080
UniProt ID	P01106
SDS-PAGE	