

Product datasheet for PH301611

c-Myc (MYC) (NM_002467) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	MYC MS Standard C13 and N15-labeled recombinant protein (NP_002458)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201611
Predicted MW:	50.5 kDa
Protein Sequence:	>RC201611 representing NM_002467 Red=Cloning site Green=Tags(s) LDFFRVVENQPPATMPLNVSFTNRNYDLDYDSVQPYFYCDEEENFYQQQQQSELQPPAPSEDIWKKFEL LPTPPLSPSRRSGLCSPSYVAVTPFSLRGDNDGGGGSFSTADQLEMVTELLGGDMVNSQSFICDPDETFI KNIIIQDCMWSGFSAAKLVSEKLASYQAARKDSGSPNPARGHSVCSTSSLYLQDLAAAASECIDPSVVF PYPLNDSSSPKSCASQDSSAFSPSSDLSLSTESSPQGSPEPLVHEETPPTTSSDEEEQEDEEEDV SVEKRQAPGKRSESGSPSAGGHSKPPHSPLVLKRCHVSTHQHNYAAPPSTRKDYPAAKRVKLDSSVRVLRQ ISNNRKCTSPRSSDTEENVKRRTHNVLERQRRNELKRSFFALRDQIPELENNEKAPKVVILKKATAYILS VQAEQKLI SEEDLLRKRREQLKHKLEQLRNSCA TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_002458</u>
RefSeq Size:	2379
RefSeq ORF:	1362
Synonyms:	bHLHe39; c-Myc; MRTL; MYCC



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Locus ID: 4609

UniProt ID: [P01106](#)

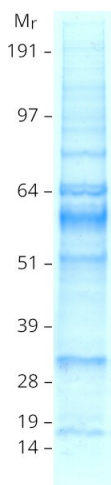
Cytogenetics: 8q24.21

Summary: 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. [provided by RefSeq, Aug 2017]

Protein Families: Druggable Genome, Embryonic stem cells, Induced pluripotent stem cells, Stem cell - Pluripotency, Stem cell relevant signaling - JAK/STAT signaling pathway, Stem cell relevant signaling - TGFb/BMP signaling pathway, Stem cell relevant signaling - Wnt Signaling pathway, Transcription Factors

Protein Pathways: Acute myeloid leukemia, Bladder cancer, Cell cycle, Chronic myeloid leukemia, Colorectal cancer, Endometrial cancer, ErbB signaling pathway, Jak-STAT signaling pathway, MAPK signaling pathway, Pathways in cancer, Small cell lung cancer, TGF-beta signaling pathway, Thyroid cancer, Wnt signaling pathway

Product images:



Coomassie blue staining of purified MYC protein (Cat# [TP301611]). The protein was produced from HEK293T cells transfected with MYC cDNA clone (Cat# [RC201611]) using MegaTran 2.0 (Cat# [TT210002]).