

Recombinant Human LIG3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. LIG3-2567H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	LIG3 MS Standard C13 and N15-labeled recombinant protein (NP_039269) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene is a member of the DNA ligase family. Each member of this family encodes a protein that catalyzes the joining of DNA ends but they each have a distinct role in DNA metabolism. The protein encoded by this gene is involved in excision repair and is located in both the mitochondria and nucleus, with translation initiation from the upstream start codon allowing for transport to the mitochondria and translation initiation from a downstream start codon allowing for transport to the nucleus. Additionally, alternate transcriptional splice variants, encoding different isoforms, have been characterized.
Molecular Mass	112.9 kDa
AA Sequence	MSLAFKIFFPQTLRALSRKELCLFRKHHWRDVRQFSQWSETDLLHGHPLFLRRKPVL SFQGSHLRSRATYLVFLPGLHVGLCSGPCEMAEQRCVDYAKRGTAGCKKCKEKIV KGVCRIGKVVPNPFSESGGDMKEWYHIKCMFEKLERARATTKKIEDLTELEGWEEL EDNEKEQITQHIADLSSKAAGTPKKKAVVQAKLTTTGQVTSPVKGASFVTSTNPRKF SGFSAKPNNSGEAPSSPTPKRSLSSSKCDPRHKDCLLREFRKLCAVADNPSYNTK

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

TQIIQDFLRKGSAGDGFHGDVYLTVKLLLPGVIKTVYNLNDKQIVKLF SRIFNCNPDD
MARDLEQGDVSETIRVFFEQSKSFPPAAKSLTIQEVD EFLRLSKLTKEDEQQQAL
QDIASRCTANDLKCIIRLIKHD LKMNSGAKHVLDALDPNAYEAFKASRN LQDVVERVL
HNAQEVEKEPGQRRALSVQASLMTPVQPM LAEACKSVEYAMKKCPNGMFSEIKYD
GERVQVHKNGDHFSYFSRSLKPVLPHKVAHF KDYIPQAFPGGHSMLDSEVLLIDNK
TGKPLPFGTLGVHKKA AFQDANVCLFVFD CIYFNDVSLMDRPLCERRKFLHDNMVEI
PNRIMFSEMKRVT KALDLADMITRVIQEGLEGLVLKDVKGTYEPGKRHWLKVKKDYL
NEGAMADTADLVVLGAFYGGSGKGGMMSIFLMGCYDPGSQKWCTVTKCAGGHDD
ATLARLQNELDMVKISKDPSKIPSWLKVNKIYYPDFIVDPKKA AVWEITGAEFKSE
AHTADGISIRFPRCTRIRDDKDWKSATNLPQLKELYQLSKEKADFTV VAGDEGSSTT
GGSSEENKGPSGSAVSRKAPSKPSASTKKAEGKLSNSNSK DGNMQTAKPSAMKVG
EKLATKSSPVKVGEKRKA ADETL CQTKVLLDIFTGVRLYLPPSTPDFSRLRRYFVAFD
GDLVQEFDMTSATHVLGSRDKNPAAQQVSPEWIWACIRKRRLVAPCTRTRPLEQKL
ISEEDLAANDILDYKDDDDKV

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

LIG3 DNA ligase 3 [Homo sapiens (human)]

Official Symbol

LIG3

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Synonyms	LIG3; ligase III, DNA, ATP-dependent; LIG2, ligase II, DNA, ATP dependent; DNA ligase 3; ligase II, DNA, ATP-dependent; polydeoxyribonucleotide synthase [ATP] 3; LIG2;
Gene ID	3980
mRNA Refseq	NM_013975
Protein Refseq	NP_039269
MIM	600940
UniProt ID	P49916
SDS-PAGE	