

Recombinant Full Length Human LIG3 Protein, C-Flag-tagged

Cat. No. LIG3-599HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human LIG3 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	108.6 kDa
AA Sequence	MSLAFKIFFPQTLRALSRKELCLFRKHHWRDVRQFSQWSETDLLHGHPLFLRRKPVL SFQGSHLRSRATY LVFLPGLHVGLCSGPCEMAEQRFCDYAKRGTAGCKKCKEKI VKGVCRIKGVVPNPFSESGGDMKEWYHI KCMFEKLERARATTKKIEDLTELEGWEE LEDNEKEQITQHIADLSSKAAGTPKKKAVVQAKLTTTGQVTS PVKGASFVTSTNPRK FSGFSAKPNNSGEAPSSPTPKRSLSSSKCDPRHKDCLLREFRKLKAMVADNPSYN

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TKTQIIQDFLRKGSAGDGFHGDVYLTVKLLPGVIKTVYNLNDKQIVKLFSRIFNCNPD
DMARDLEQGDV SETIRVFFEQSKSFPPAAKSLLTIQEVDEFLLRLSKLTKEDEQQQA
LQDIASRCTANDLKCIIRLIKHDLD KMNSGAKHVLDALDPNAYEAFKASRNLDQDVVERV
LHNAQEVEKEPGQRRALSVQASLMTPVQPMLEACK SVEYAMKKCPNGMFSEIKY
DGERVQVHKNGDHFSYFSRSLKPVLPHKVAHF KDYIPQAFPGGHSMILDSE VLLIDN
KTGKPLPFGTLGVHKKAAFQDANVCLFVFDICIYFNDVSLMDRPLCERRKFLHDNMV
EIPNRIMF SEMKRVTKALDLADMITRVIQEGLEGLVLKDVKGTYEPGKRHWLKVKKD
YLNAGAMADTADLVVLGAFYG QGSKGGMMSIFLMGCYDPGSQKWCTVTKCAGGH
DDATLARLQNELDMVKISKDPSKIPSWLKVNIYYPD FIVDPKKAHVWEITGAEFK
SEAHTADGISIRFPRCTRIRDDKDWKSATNLPQLKELYQLSKEKADFTV VAGDEGSS
TTGGSSEENKGPSGSAVSRKAPSKPSASTKKAEGKLSNSNSKDGNMQTAKPSAMK
VGEKLAT KSSPVKVGEKRKAADETLCQTKVLLDIFTGVRLYLPPSTPDFSRLRRYFV
AFDGDVQEFDMTSATHVLG
SRDKNPAAQQVSPEWIWACIRKRRLVAPCTRTRPLEQKLISEEDLAANDILDYKDDD
DKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome

Protein Pathways	Base excision repair
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Full Length	Full L.
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GENE INFORMATION

Gene Name	LIG3 DNA ligase 3 [Homo sapiens (human)]
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Official Symbol	LIG3
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Synonyms	LIG2; MTDPS20; LIG3alpha
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Gene ID	3980
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mRNA Refseq	NM_013975.4
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Protein Refseq	NP_039269.2
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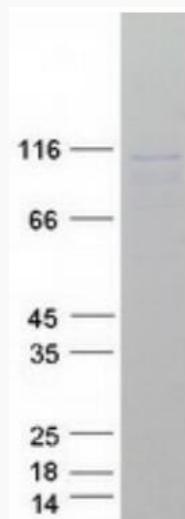
MIM	600940
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UniProt ID	P49916
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Coomassie blue staining of purified LIG3 protein.

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