

Product datasheet for SC212470

DNA Ligase IV (LIG4) (NM_206937) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	DNA Ligase IV (LIG4) (NM_206937) Human 3' UTR Clone
Symbol:	DNA Ligase IV
Synonyms:	LIG4S
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_206937
Insert Size:	1121 bp
Insert Sequence:	<p>>SC212470 3'UTR clone of NM_206937</p> <p>The sequence shown below is from the reference sequence of NM_206937. The complete sequence of this clone may contain minor differences, such as SNPs.</p> <p>Blue=Stop Codon Red=Cloning site</p>

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GGCAAGTTGGACGCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGCCGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAACGATCGCC
TTACAAGAAGAAAACAGTATTTGATTAAAGCTAGGTTTCCTAGTGAGGAAAGCCTCTGATCTGGCAG
ACTCATTGCAGCAGGTGGTAATGATAAAATACTAACTACATTTTATTTTGTATCTTAAAAATCTATG
CCTAAAAAGTATCATTACATATAGGAAAACAATAATTTTAACTTTTAAGGTTGAAAAGACAATAGCCCA
AAGCCAAGAAAGAAAAATTATCTTGAATGTAGTATTCAATGATTTTTTATGATCAAGGTGAAATAAACA
GTCTAAAGAAGAGGTGTTTTTATAATATCCATATAGAAATCTAGAATTTTACTTAGATACTAATAAAAA
TACATTTAGAACTTTTAAAGTCATGAAAAAGCATTAACTTTCTAAACAGTATATTCTAAAAAGTCAAA
ACGTTAACAATAGTTTTTATCTAATAAAAGCACTGCAAGAAAATAGGGTAGAATTGTTACAGCTGGACT
TGTA AAAATATGTCTTTTACTCAGGGTTTAAATGTCCATTTAAATATGAAATGTAAACAAATTTGT
TTTTTAAGGTTAAGGCCAAATGTAACAATAAACCCCTGTCGATGGTTTTAGCTAAATTAGAGGAAGTTG
TATGAGACTTAATGATCTAAAAACTTAAATTTGAATTTGGTTTGATTAAAAATAAGCTTGCAATTTTAA
AAGTAGCTCACATTTAATTTCTTGTGTGAAATAGAACATGCTTTAAAGGAAGTATTTTATGTGAATTT
GCATTTCCAGTATAAATAGTATTCACAAAAAGATTTTCCTAGATTTTATCTATTGAATAGGTGTCAATA
TGGCATGCATATTGTAACCTTTCATTAGAAATAAGTTGCTTTGACTTTTAAAAATGACATAGTTAGATTA
TTTAAAGTCAATGTATATAGTATATATTATGTATGGATTATATACCAAATTTTGAATACAGCCTATC
TCATGACCATATTGAAATGTACGGAATTTGATCCATGCGATACTATGTGTGCATTATTTGAAAGTTATT
GGAAATTTTATTCAAACCGTGGAACAAATGTATGTGATTTTGTATCTTCTTAATTTAAATAAAATAT
TTAATGCACTATTA AAA
ACGCGTAAGCGGCCGCGGCATCTAGATTGCAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTTGATTCACCGCCGCTTCTATGAAAGG
  
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Restriction Sites:	Sgfl-Mlul
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	<u>NM_206937.2</u>
Summary:	The protein encoded by this gene is a DNA ligase that joins single-strand breaks in a double-stranded polydeoxynucleotide in an ATP-dependent reaction. This protein is essential for V(D)J recombination and DNA double-strand break (DSB) repair through nonhomologous end joining (NHEJ). This protein forms a complex with the X-ray repair cross complementing protein 4 (XRCC4), and further interacts with the DNA-dependent protein kinase (DNA-PK). Both XRCC4 and DNA-PK are known to be required for NHEJ. The crystal structure of the complex formed by this protein and XRCC4 has been resolved. Defects in this gene are the cause of LIG4 syndrome. Alternatively spliced transcript variants encoding the same protein have been observed. [provided by RefSeq, Jul 2008]
Locus ID:	3981
MW:	44.8