

## Product datasheet for **SC116715**

### LNK (SH2B3) (NM\_005475) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LNK (SH2B3) (NM_005475) Human Untagged Clone
Tag:	Tag Free
Symbol:	LNK
Synonyms:	IDDM20; LNK
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL6</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC116715 sequence for NM\_005475 edited (data generated by NextGen Sequencing)

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ATGAACGGGCCTGCCCTGCAGCCCTCTCGCCCTTCCGCGCCCTCAGCCTCCCCGGCG
GCGGCCCCGCGGGGCTGGAGCGAGTTCTGTGAGTTGCACGCCGTAGCGGCGGCCCGGGAG
CTGGCCCCCAGTACTGGCTGTTCCGCCGGGAGCATCCGCAGCACGCGCCGCTGCGCGCC
GAGCTGGTGTGCTGCAGTTCACCGACCTCTCCAGCGTACTTCTGCCGCGAGGTGCGC
GACGGACGGGCGCCGGCCGCGACTACCGGGACACAGGCCGTGGGCCCCCAAGCCAAAGCC
GAGGCGTCCCGGAGCCAGGCCCGGCCCGCCCGCCCTGGCCTGCCCAAGGCCCGCAGC
TCTGAGGAGCTGGCCCCGCGGCCCGGGCCCTGCTCCTTCCAGCACTTTCGCGCG
AGCCTCCGCCACATCTTCCGCGCCGCTCGGCCGGGAGCTGCCAGCGGCCACACCGCT
GCCGCCCCCGGGACCCCGGAGAGGCTGCTGAGACCCCGCCCGGCTGGCCTGGCCAAG
AAGTTCCTGCCCTGGAGCCTGGCCCGGAGCCGCCACCCGAGGCGCTGAAGGAGGCGGTG
CTGCGCTACAGCCTGGCCGACGAGGCTCCATGGACAGCGGGGCACGCTGGCAGCGCGGG
AGGCTGGCGCTGCGCCGGGCCCGGGCCCGATGGCCCCGACCGGTGCTGGAGCTTTC
GACCCACCAAGAGTTCAAGGCCAAGCTACAAGCAGCTTGTCCAGCATCCAGGAGGTC
CGGCGGTGCACACGGCTTGAGATGCCTGACAACCTTTACACCTTTGTGCTGAAGGTGAAG
GACCGGACAGACATCATCTTTGAGGTGGGAGACGAGCAGCAGCTGAATTCATGGATGGCT
GAGCTCTCGGAGTGCACAGGCCGAGGGCTGGAGAGCACAGAAGCAGAGATGCATATTTCC
TCAGCCCTAGAGCCTAGCACGTCCAGCTCCCAAGGGGCAGCACAGATTCCTTAACCA
GGTGTCTCTCCTGGGGGCTGCTGGACCCGGCCTGCCAGAAGACGGACATTTCTGTCC
TGCTACCCCTGGTTCACGGCCCATCTCCAGAGTGAAAGCAGCTCAGCTGGTTCAGCTG
CAGGGCCCTGATGCTCATGGAGTGTCTGTTGTCGGCAGAGCGAGACGCGCGTGGGGAA
TACGTGCTCACTTCACTTTCAGGGGATAGCCAAGCACCTGCGCCTGTCGCTGACAGAG
CGGGGCCAGTGGCGTGTGCAGCACCTCCACTTTCCCTCGGTGCTGGACATGCTCCACCAC
TTCAGCGCTCGCCATCCCACTCGAGTGCAGCGCCCGCCTGTGATGTCCGCTCTCCAGC
TACGTGGTAGTCTCCCAACCACCAGGTTCTGCAACACGGTCTCTTCCCTTCTCC
CTTCTCACTGGGATTCAGAGTCCCTTCTCACTGGGGTTCAGAGTTGGGCTTCCCCAC
CTTAGTCTTCTGGCTGTCCCGGGGGCTCAGCCAGAGGGTCTCCAGGGCGATCTCA
CCCCCGAGCAGATCTCCACCTGGTGCCTTCGCCGAAGAACTGGCCAACAGCCTGCAG
CACCTGGAGCATGAGCCTGTGAATCGAGCCGGGACTCGGACTACGAAATGGACTCATCC
TCCCGGAGCCACCTGCGGGCCATAGACAATCAGTACACACCTCTCTGA
    
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Clone variation with respect to NM\_005475.2  
784 t=>c

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_005475 unedited

```

TTTCGCCGCCCGTTGNCGCATTGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCA
GAGCTCATTTAGGTGACACTATAGAATAACAAGCTACTTGTCTTTTTGACGCGGCCGCGA
ATTCGGCACGAGGCGGGCCACCGCCTCCGCCCGGCTGCCCGCCGACTGTCGCGGCCCG
CGGTGGCGACGGCGGCCGCTGCAAAGTTTCCCGGCGGCGGCGGCCCGGGGGCGCATCT
CCCGCAACTGTCAAGCGCTGGCGCGGAAATGATGAGGCGCTGGCCATTTTCCGAGCCCG
GGTTTCTGCCTGAGCCCGCTCGAGCGAGCCGCGAGCGAGGAGCCGGCGGGCGGGAGAG
GACGCGCCAGGGCGGGGCCCCGCCCGCCCTCGGGATTTGAGGGCCCGGGGGCGCGC
GACGCCATGGGCCGGCCGGCCAGAGCTCCTGTCTCAGCCCGGCCGACCACCTGGG
TCTCCGCATGAACGGGCTGCCCTGCAGCCCTCTCGCCCTTTCGCGCCCTCAGCCT
CCCCGGCGGCGGCCCGGGGCTGGAGCGAGTCTGTGAGTTGCACGCCGTANCGGCGG
CCCGGGAGCTGGCCCGCAGTACTGGCTGTTCCGCCGGGAGCATNCGCAGCACGCGCCGC
TGCGCGCCGAGCTGGTGTGCTGCAGNTACCGACCTCTTNCAGCGCTACTTCTGCCCGC
GAGGTGCGCGACGGACGGGCGCCGGCCGCGACTACCGGAACAGGGGCGCTGGGCCCCCA
GCCAGCNCCGAGCGTCCCGGAGCCAAGCCCCGGCCCGCCCTGTCTTGCCAGGCGATN
TTTTGGANNATTGNCCCCCGGGCCCCGGCCCTGGTCTCCACATTTGGCGCAACTCG
GCATTTCCGCCGTGNNGGGGGGGGAATGTCGCGGCCACCGTGCG
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_005475 unedited CCGTAATACTATGNNACCGCGGCCGATTCTAGNGATCAGTTTTTTTTTTTTTTTTTTTGA AAACCTTTTAAATTCAATATAGCAATTTGTACATTATAGCAAAATTTGCATTATTCAAGAA TAAGTTACTTGTACAGTACATAAAACAATACATAAAAAATTTGCCAAATACCTTCTGCCTA TAATGATACAAGATGAATCCACTTTATGTTATCACAATGTGCTGTATATTCTAACCAAAC ACAGGATGTCAGATGTGTCCTTGTAAATACTCGCAAGTTCCTCTAGCTTGTGGGAGAT GTTAGAGCTAACACATTTGCAGTAAGGGACTTAGTCCTGAATAGAAAGCATGAAGGAATC TCAGGCAACCCTCAGGGAAGAGTCCAAGGCCTTGACTTTAGGTTAAGAAACTGTTATGTA AAAATAGTGTTCTCTGGCCCAAGATTTTAAATGATTGCTATTCTTTTTCTACGGTCCAG AAATGATCAAAGGCAGAAGATTTATACCAGATAAAGCCATATGGATTGCTGGTCTAAAAT TCAAGGCAGGTTAGTTGACTTAATCTTTGGTGCTGGTGACTGTTAGTTTGTAAGTTCT AATAAGTCAAATGAANGAAGGGATGGTGCCGGGAGCTGTCAAGCTGTACTGGTGGGGTCT GTAATTAGAGCTAACTGGAGGGATCATGATGTCTACTGTCCAGTTTGGTGTGAGCCATG GCTCTCGGTAAAATTGCCCGCTGGGGCCCGTTCACGACTGGAAAGAAAATGGTGGGAGTG CTTTGCCTTGGGGGGCAAACCTGCACCCATGGGGTGCCTGGCCCCACTGGTGCCACCCC TTCTAAACTGAAATTGTTCCCCATTAAGAAAAGGGTGGGCTAAGGGCACTTTTTCTAA CCATGGGG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_005475
<b>Insert Size:</b>	4700 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_005475.1</a></u> , <u><a href="#">NP_005466.1</a></u>
<b>RefSeq Size:</b>	5423 bp
<b>RefSeq ORF:</b>	1728 bp
<b>Locus ID:</b>	10019
<b>UniProt ID:</b>	<u><a href="#">Q9UQQ2</a></u>
<b>Cytogenetics:</b>	12q24.12
<b>Domains:</b>	SH2, PH

**Protein Pathways:** Neurotrophin signaling pathway

**Gene Summary:** This gene encodes a member of the SH2B adaptor family of proteins, which are involved in a range of signaling activities by growth factor and cytokine receptors. The encoded protein is a key negative regulator of cytokine signaling and plays a critical role in hematopoiesis. Mutations in this gene have been associated with susceptibility to celiac disease type 13 and susceptibility to insulin-dependent diabetes mellitus. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2014]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).