

Product datasheet for **RC218359**

LNK (SH2B3) (NM_005475) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LNK (SH2B3) (NM_005475) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LNK
Synonyms:	IDDM20; LNK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC218359 representing NM_005475
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAACGGGCCTGCCCTGCAGCCCTCTCGCCCTCTTCCGCGCCCTCAGCCTCCCCGGCGCGGCCCCCGC
 GGGGCTGGAGCGAGTTCTGTGAGTTGCACGCCGTAGCGCGGCCCGGGAGCTGGCCCGCCAGTACTGGCT
 GTTCGCCCGGGAGCATCCGCAGCACGCGCCGCTGCGCGCCGAGCTGGTGTGCTGCACTTACCGACCTC
 TTCCAGCGCTACTTCTGCCGCGAGGTGCGCGACGGACGGCGCCGGCCGCGACTACCGGACACAGGCC
 GTGGGCCCCAGCCAAGGCCGAGGCGTCCCGGAGCCAGGCCCGGCCCGCCCGCCCTGGCTGCCAA
 GGCCCGCAGCTCTGAGGAGCTGGCCCGCGCGGCCCGCCGGGCCCTGCTCTTCCAGCACTTTCGCCGC
 AGCCTCCGCCACATCTTCCGCCCGCTCGGCCGGGAGCTGCCAGCGGCCACACCGCTGCCGCCCCCG
 GGACCCCGGAGAGGCTGCTGAGACCCCGCCCGCCCTGGCTGGCCAAGAAGTTCCTGCCCTGGAGCT
 GGCCCGGAGCCGCCACCGAGGCGCTGAAGGAGCGGTGCTGCGCTACAGCCTGGCCGACGAGGCTCC
 ATGGACAGCGGGGACGCTGGCAGCGCGGGAGGCTGGCGCTGCGCCGGGCCCGGCCCGCCATGGCCCG
 ACCGCGTGTGGAGCTCTTCAGCCACCCAAGAGTTCAAGGCCCAAGCTACAAGCAGCTTGTCCAGCAT
 CCAGGAGTCCGGCGGTGCACACGGCTTGAGATGCCTGACAACCTTTACACCTTTGTGCTGAAGGTGAAG
 GACCGGACAGACATCATCTTTGAGGTGGGAGACGAGCAGCAGTGAATTCATGGATGGCTGAGCTCTCG
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 GTCCAGCTCCCCAAGGGGAGCAGACATTCCTTAACCAAGGTGCTTCTCCTGGGGGCTGCTGGACCCG
 GCCTGCCAGAAGACCGACATTTCTGTCTGCTACCCCTGGTTCACCGCCCATCTCCAGAGTAAAG
 CAGCTCAGCTGGTTCAGCTGACGGCCCTGATGCTCATGGAGTGTCTGTTGCGCGAGCGGAGCGCG
 GGTGGGGAATACGTGCTCACTTTCAACTTTAGGGGATAGCCAAGCACCTGCGCCTGCTGCTGACAGAG
 CGGGGCCAGTGGCGTGTGACACCTCCACTTTCCCTCGTGTGGACATGCTCCACCATTCCAGCGCT
 CGCCATCCCACTCGAGTGGCGCCCGCTGTGATGTCCGGCTCTCCAGCTACGTGGTAGTGTCTCCCA
 ACCACCAGTTCTGCAACACGGTCTCTTCCCTTTCTCCCTTCTCACTGGGATTAGAGTCCCTTCT
 CACTGGGGTTCAGAGTTGGGCTTCCCCACCTTAGTCTTCTGCTGTCGCCCGGGGCTCAGCCAGAGG
 GTCTCCAGGGGATCCTCACCCCGGAGCAGATCTCCACCTGGTGCCTTCGCCGAAGAAGTGGCCAA
 CAGCCTGCAGCACCTGGAGCATGAGCCTGTGAATCGAGCCGGGACTCGGACTACGAAATGGACTCATCC
 TCCCGGAGCCACCTGCGGCCATAGACAATCAGTACACACCTCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC218359 representing NM_005475
 Red=Cloning site Green=Tags(s)

MNGPALQPSSPSSAPSASPAAPRGWSEFCELHVAHAARELARQYWLFAREHPQHAPLRAELVSLQFTDL
 FQRYFCREVRDGRAPGRDYRDTGRGPPAKAEASPEPGGPAAPGLPKARSSEELAPRPPGPCSFQHFRR
 SLRHFIFRRRSAGELPAAHTAAAPGTPGEAAETPARPGLAKKFLPWSLAREPPPEALKEAVLRYSLADEAS
 MDSGARWQRGRLALRRAPGPDGPDVLELFDPPKSSRPKLQAACSSIQEVRRCTRLEMPDNLVTFVLKVK
 DRTDIIIFEVGDEQQLNSWMAELSECTGRGLESTEAEHMIPSALEPSTSSSPRGSTDSLQNGASPGLLDP
 ACQKTDHFLSCYPWFHGPISRVKAAQLVQLQGPDAHGVLVVRQSETRRGEYVLTFFNFQGIKHLRLSLTE
 RGQCRVQHLHFPSVVDMLHHFQSPIPLECGAACDVRLSSYVVVVVSQPPGSCNTVLPFSLPHWDESLP
 HWGSELGLPHLSSSGCPRLSPEGLPGRSSPEQIFHLVPSPEELANSLQHLEHEPVRNRARSDYEMDSS
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

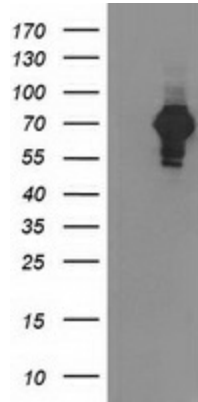
Chromatograms:

https://cdn.origene.com/chromatograms/mk6049_c03.zip

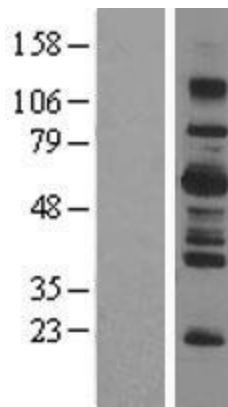
Restriction Sites:

Sgfl-Mlul

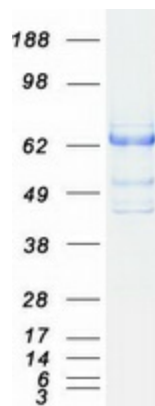
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	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).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
RefSeq:	NM_005475.3
RefSeq Size:	5423 bp
RefSeq ORF:	1728 bp
Locus ID:	10019
UniProt ID:	Q9UQQ2
Cytogenetics:	12q24.12
Domains:	SH2, PH
Protein Pathways:	Neurotrophin signaling pathway
MW:	63 kDa
Gene Summary:	<p>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]</p>

Product images:


HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SH2B3 (Cat# RC218359, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SH2B3 (Cat# [TA502933]). Positive lysates [LY401678] (100ug) and [LC401678] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY401678]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218359 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SH2B3 protein (Cat# [TP318359]). The protein was produced from HEK293T cells transfected with SH2B3 cDNA clone (Cat# RC218359) using MegaTran 2.0 (Cat# [TT210002]).