

Product datasheet for **RG218359**

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:	TurboGFP
Symbol:	LNK
Synonyms:	IDDM20; LNK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG218359 representing NM_005475
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACGGGCCTGCCCTGCAGCCCTCTCGCCCTCTTCGCGCCCTCAGCCTCCCGGGCGGCCGCCCGC
 GGGGCTGGAGCGAGTTCTGTGAGTTGCACGCCGTAGCGGGCGGCCGGGAGCTGGCCCGCCAGTACTGGCT
 GTTCGCCCCGGGAGCATCCGCAGCACGCGCCGCTGCGCGCCGAGCTGGTGTGCTGCACTTACCGACCTC
 TTCCAGCGCTACTTCTGCCGCGAGGTGCGCGACGGACGGGCGCCGGGCGCGACTACCGGACACAGGCC
 GTGGGCCCCAGCCAAGGCCGAGGCGTCCCGGAGCCAGGCCCGGCCCGCCCGCCCTGGCTGCCAA
 GGCCCGCAGCTCTGAGGAGCTGGCCCGCGCGGCCCGCCGGGCCCTGCTCTTCCAGCACTTTCGCGCG
 AGCCTCCGCCACATCTTCGCGCGCGCTCGGCCGGGAGCTGCCAGCGGCCACACCGCTGCCGCCCGCG
 GGACCCCGGAGAGGCTGCTGAGACCCCGCCCGCCCTGGCTGGCCAAGAAGTTCCTGCCCTGGAGCT
 GGCCCGGAGCCGCCACCGAGGCGCTGAAGGAGCGGTGCTGCGCTACAGCCTGGCCGACGAGGCTCC
 ATGGACAGCGGGGACGCTGGCAGCGCGGGAGGCTGGCGCTGCGCGGGCCCGGCCCGCCGATGGCCCG
 ACCGCGTCTGGAGCTCTTCGACCCACCAAGAGTTCAAGGCCCAAGCTACAAGCAGCTTCTCCAGCAT
 CCAGGAGTCCGGTGGTGCACACGGCTTGGATGCCTGACAACCTTTACACCTTTGTGCTGAAGGTGAAG
 GACCGGACAGACATCATCTTTGAGGTGGGAGACGAGCAGCAGTGAATTCATGGATGGCTGAGCTCTCG
 AGTGCACAGGCCGAGGGCTGGAGAGCACAGAAGCAGAGATGCATATTCCTCAGCCCTAGAGCCTAGCAC
 GTCCAGCTCCCAAGGGGAGCACAGATTCCTTAACCAAGGTGCTTCTCCTGGGGGCTGCTGGACCCG
 GCCTGCCAGAAGCGGACCATTTCTGTCTGCTACCCCTGGTTCACGGCCCATCTCCAGAGTGAAG
 CAGCTCAGCTGGTTCAGCTGCAGGGCCCTGATGCTCATGGAGTGTCTGTTGCGGCAGAGCGGACGCG
 GGTGGGGAATACGTGCTCACTTTCAACTTTAGGGGATAGCCAAGCACCTGCGCCTGTCGCTGACAGAG
 CGGGGCCAGTGGCGTGTGACACCTCCACTTTCCCTCGGTGCTGGACATGCTCCACCACTTCCAGCGCT
 CGCCATCCCACTCGAGTGGCGGCCGCTGTGATGTCCGGCTCTCCAGCTACGTGGTAGTGTCTCCCA
 ACCACCAGTTCTGCAACACGGTCTCTTCCCTTTCTCCCTTCTCACTGGGATTCAGAGTCCCTTCT
 CACTGGGGTTCAGAGTTGGGCTTCCACCTTAGTCTTCTGGTGTCCCGGGGGCTCAGCCAGAGG
 GTCTCCAGGGGATCTCACCCCGGAGCAGATCTCCACCTGGTGCCTTCGCCGAAGAAGTGGCCAA
 CAGCCTGCAGCACCTGGAGCATGAGCCTGTGAATCGAGCCGGGACTCGGACTACGAAATGGACTCATCC
 TCCCGGAGCCACCTGCGGGCCATAGACAATCAGTACACACCTCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG218359 representing NM_005475
 Red=Cloning site Green=Tags(s)

MNGPALQPSSPSSAPSASPAAPRWSEFCELHVAHAARELARQYWLFAREHPQHAPLRAELVSLQFTDL
 FQRYFCREVRDGRAPGRDYRDTGRGPPAKAEASPEPGGPAAPGLPKARSSEELAPRPPGPCSFQHFRR
 SLRHIFRRRSAGELPAAHTAAAPGTPGEAAETPARPGLAKKFLPWSLAREPPPEALKEAVLRYSLADEAS
 MDSGARWQRGLALRRAPGPDGPDVLELFDPPKSSRPKLQAACSSIQEVRWCTRLEMPDNLTYFVLKVK
 DRTDIIIFEVGDEQQLNSWMAELSECTGRGLESTEAEHIPSALPSTSSSPRGSTDLSNQGASPGLLDP
 ACQKTDHFLSCYPWFHGPISRVKAAQLVQLQGPDAHGVFLVRQSETRRGEYVLTFFNFQGIKHLRLSLTE
 RGQCRVQHLHFPSVVDMLHHFQRSPIPLECGAACDVRLSSVVVVVQPPGSCNTVLPFSLPHWDESLP
 HWGSELGLPHLSSSGCPRGLSPEGLPGRSSPPEQIFHLVPSPEELANSLQHLEHEPVNRRARSDYEMDSS
 SRSHLRAIDNQYTPL

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_005475

ORF Size: 1725 bp

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:

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](#)

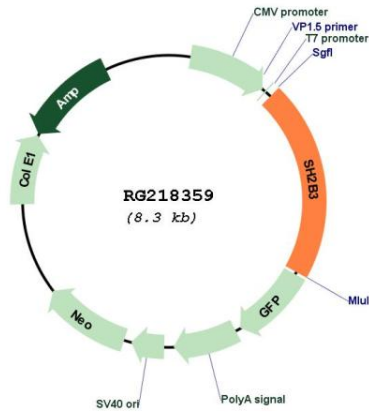
Cytogenetics: 12q24.12

Domains: SH2, PH

Protein Pathways: Neurotrophin signaling pathway

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]

Product images:



Circular map for RG218359