

Product datasheet for RC237815

LNK (SH2B3) (NM_001291424) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LNK (SH2B3) (NM_001291424) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SH2B3
Synonyms:	IDDM20; LNK
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237815 representing NM_001291424 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGGATCCCGGTGCTGTGCCGTGGTGGAGGAGACCTGGCCTGGCTGTGCCAGTTGGCTGGGAGCCC
CTCCACCCAGAAGCCCTTGCTCTCACCTTTCTTCTGAATCATCGTTCTTGAAGAGTTCAAGGCCAA
GCTACAAGCAGCTTGCTCCAGCATCCAGGAGTCCGGTGGTGCACACGGCTTGAGATGCCTGACAACCTT
TACACCTTTGTGCTGAAGGTGAAGGACCGACAGACATCATCTTTGAGGTGGGAGACGAGCAGCAGCTGA
ATTCATGGATGGCTGAGCTCTCGGAGTGCACAGGCCGAGGGCTGGAGAGCACAGAAGCAGAGATGCATAT
TCCCTCAGCCCTAGAGCCTAGCACGTCCAGCTCCCAAGGGGCAGCACAGATTCCCTTAACCAAGGTGCT
TCTCCTGGGGGCTGCTGGACCCGGCCTGCCAGAAGACGGACATTTCTGTCTGCTACCCCTGGTTCC
ACGGCCCATCTCCAGAGTAAAAGCAGCTCAGCTGGTTCAGTGCAGGGCCCTGATGCTCATGGAGTGT
CCTGGTGCAGCAGAGCAGACCGGGCGTGGGAATACGTGCTCACTTTCACTTTCAAGGGATAGCCAAG
CACCTGCGCTGTGCTGACAGAGCGGGCCAGTGCCGTGTGCAGCACCTCCACTTTCCCTCGGTGCTG
ACATGCTCCACCACTCCAGCGCTCGCCATCCCACTCGAGTGGCGCCGCTGTGATCGCCGCTCTC
CAGCTACGTGGTAGTCGCTCCCAACCACAGGTTCTGCAACACGGTCCCTTTCCCTTTCTCCCTTCT
CACTGGGATTCAGAGTCCCTTCTCACTGGGGTTCAGAGTTGGGCCTTCCCACTTAGTTCTTCTGGCT
GTCCCGGGGGCTCAGCCAGAGGGTCTCCAGGGCGATCCTCACCCCGAGCAGATCTTCCACCTGGT
GCCTTCGCCCAGAAGAACTGGCCAACAGCTGCAGCACCTGGAGCATGAGCCTGTGAATCGAGCCCGGAC
TCGGACTACGAAATGGACTCATCTCCCGAGCCACCTGCGGGCCATAGACAATCAGTACACACCTCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237815 representing NM_001291424
Red=Cloning site Green=Tags(s)

MGFPVLCRGWRRTPGCASWLGAPPPQKPLLSPLLLNRSSKSSRPKLQAACSSIQEVRWCTRLEMPDNL
 YTFVLKVKDRTDIIIEVGDQQQLNSWMAELSECTGRGLESTEAMHIPSALPSTSSSPRGSTDSLNOGA
 SPGGLLDACQKTDHFLSCYPWFHGPISRVKAAQLVQLQGPDAHGVFLVRQSETRRGEYVLTFFNFQGIK
 HLRLSLTERGQCRVQHLHFPSVVDMLHHFQRSPIPLECGAACDVRLSSYVVVVSQPPGSCNTVLFPPSLP
 HWDSSELPHWGSSELGLPHLSSSGCPRGLSPEGLPGRSSPPEQIFHLVPSPEELANSLQHLEHEPVNRARD
 SDYEMDSSSRSHLRAIDNQYTPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

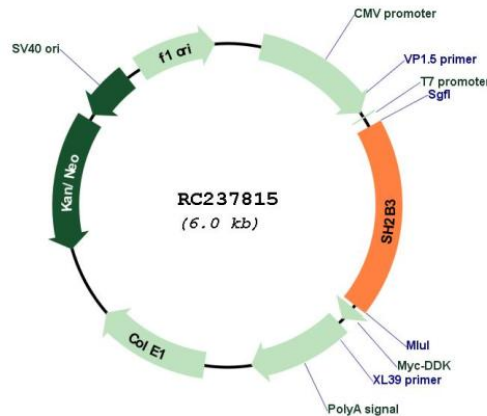
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001291424

ORF Size:	1119 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:	<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_001291424.1 , NP_001278353.1
RefSeq Size:	4500 bp
RefSeq ORF:	1122 bp
Locus ID:	10019
UniProt ID:	Q9UQQ2
Cytogenetics:	12q24.12
Protein Pathways:	Neurotrophin signaling pathway
MW:	41.9 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>