

## Product datasheet for **RG237815**

### 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:	TurboGFP
Symbol:	LNK
Synonyms:	IDDM20; LNK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237815 representing NM_001291424. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGGATCCCGGTGCTGTGCCGTGGTGGAGGAGACCTGGCCTGGCTGTGCCAGTTGGCTGGGAGCC
CCTCCACCCAGAAGCCCTTGCTCTCACCTCTTCTTCTGAATCATCGTTCTTGAAGAGTTCAAGGCC
AAGCTACAAGCAGCTTGCTCCAGCATCCAGGAGGTCCGGTGGTGCACACGGCTTGAGATGCCTGACAAC
CTTTACACCTTTGTGCTGAAGGTGAAGGACCGGACAGACATCATCTTTGAGGTGGGAGACGAGCAGAG
CTGAATTCATGGATGGCTGAGCTCTCGGAGTGCACAGGCCGAGGGCTGGAGAGCACAGAAGCAGAGATG
CATATTCCTCAGCCCTAGAGCCTAGCAGTCCAGCTCCCAAGGGGCAGCACAGATTCCCTTAACCAA
GGTGTCTCTCCTGGGGGCTGCTGGACCCGGCCTGCCAGAAGACGGACATTTCTGTCTGCTACCCC
TGTTCCACGGCCCCATCTCCAGAGTAAAAGCAGCTCAGCTGGTTCAGCTGCAGGGCCCTGATGCTCAT
GGAGTGTCTCTGGTGCAGCAGAGCGAGACGCGCGTGGGGAATACGTGCTCACTTCAACTTTCAGGGG
ATAGCCAAGCACCTGCGCCTGTCGCTGACAGAGCGGGGCCAGTGGCGTGTGCAGCACCTCCACTTTCCC
TCGGTTCGTGGACATGCTCCACCCTCCAGCGCTCGCCATCCCACTCGAGTGGCGGCCGCTGTGAT
GTCCGGCTCTCCAGTACGTGGTAGTCGTCTCCAACCACCAGGTTCTGCAACAGGTCTCTTCCCT
TTCTCCCTTCTCACTGGGATTCAGAGTCCCTTCTCACTGGGGTTTCAGAGTTGGGCTTCCCCACCTT
AGTTCTTCTGGCTGTCCCGGGGCTCAGCCAGAGGGTCTCCAGGGGATCCTCACCCCGAGCAG
ATCTTCCACCTGGTGCCTTCGCCGAAGAACTGGCCAACAGCCTGCAGCACCTGGAGCATGAGCCTGTG
AATCGAGCCCGGACTCGGACTACGAAATGGACTCATCTCCCGAGCCACCTGCGGGCCATAGACAAT
CAGTACACACCTCTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237815  
 Blue=ORF Red=Cloning site Green=Tag(s)

MGFPVLCRGWRRTPWGCASWLGAPPPQKPLLSPLLLNRSSKSSRPKLQAACSSIQEVRWCTRLEMPDN  
 LYTFVLKVKDRDIIIFEVGDQQLNSWMAELSECTGRGLESTEAE MHIPSALEPSTSSSPRGSTDSL NQ  
 GASPGLLDPACQKTDHFLSCYPWFHGPISRVKAAQLVQLQGPDAHGVLVRQSETRRGEYVLT FNFOG  
 IAKHLRLSLTERGQCRVQHLHFPSVVDMLHHFQRSPIPLECGAACDVR LSSYVVVVVSQPPGSCNTV LFP  
 FSLPHWDESLPHWSELGLPHLSSSGCPRLSPEGLPGRSSPEQIFHLVPSPEELANSLQHLEHEPV  
 NRARDSYEMDSSSRSHLRAIDNQYTPL  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV  
 MGYGFYHFGTYP SGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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).

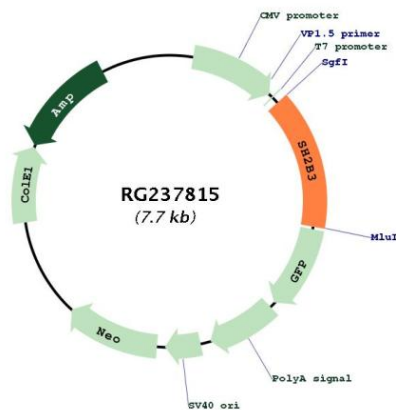
**RefSeq:** [NM\\_001291424.1](#), [NP\\_001278353.1](#)

**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:** 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 RG237815