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Product datasheet for SC335709

LNK (SH2B3) (NM_001291424) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LNK (SH2B3) (NM_001291424) Human Untagged Clone
Tag:	Tag Free
Symbol:	SH2B3
Synonyms:	IDDM20; LNK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335709 representing NM_001291424. Blue=Insert sequence Red=Cloning site Green=Tag(s) GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGGGATTCCCGGTGCTGTGCCGTGGCTGGAGGAGGACCTGGCCTGGCTGTGCCAGTTGGCTGGGAGCC CCTCCACCCCAGAAGCCCTTGCTCTCACCTCTTCTTCTGAATCATCGTTCTTCGAAGAGTTCAAGGCCC AAGCTACAAGCAGCTTGCTCCAGCATCCAGGAGGTCCGGTGGTGCACACGGCTTGAGATGCCTGACAAC CTTTACACCTTTGTGCTGAAGGTGAAGGACCGGACAGACATCATCTTTGAGGTGGGAGACGAGCAGCAG CTGAATTCATGGATGGCTGAGCTCTCGGAGTGCACAGGCCGAGGGCTGGAGAGCACAGAAGCAGAGATG CATATTCCCTCAGCCCTAGAGCCTAGCACGTCCAGCTCCCCAAGGGGCAGCACAGATTCCCTTAACCAA GGTGCTTCTCCTGGGGGGCTGCTGGACCCGGCCTGCCAGAAGACGGACCATTTCCTGTCCTGCTACCCC TGGTTCCACGGCCCCATCTCCAGAGTGAAAGCAGCTCAGCTGGTTCAGCTGCAGGGCCCTGATGCTCAT GGAGTGTTCCTGGTGCGGCAGAGCGAGACGCGGCGTGGGGAATACGTGCTCACTTTCAACTTTCAGGGG ATAGCCAAGCACCTGCGCCTGTCGCTGACAGAGCGGGGCCAGTGCCGTGTGCAGCACCTCCACTTTCCC TCGGTCGTGGACATGCTCCACCACTTCCAGCGCTCGCCCATCCCACTCGAGTGCGGCGCCGCCTGTGAT GTCCGGCTCTCCAGCTACGTGGTAGTCGTCTCCCAACCACCAGGTTCCTGCAACACGGTCCTCTTCCCT TTCTCCCTTCCTCACTGGGATTCAGAGTCCCTTCCTCACTGGGGTTCAGAGTTGGGCCTTCCCCACCTT AGTTCTTCTGGCTGTCCCCGGGGGCTCAGCCCAGAGGGTCTCCCAGGGCGATCCTCACCCCCCGAGCAG ATCTTCCACCTGGTGCCTTCGCCCGAAGAACTGGCCAACAGCCTGCAGCACCTGGAGCATGAGCCTGTG AATCGAGCCCGGGACTCGGACTACGAAATGGACTCATCCTCCCGGAGCCACCTGCGGGCCATAGACAAT CAGTACACACCTCTCTGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
Restriction Sites:	SgfI-MluI

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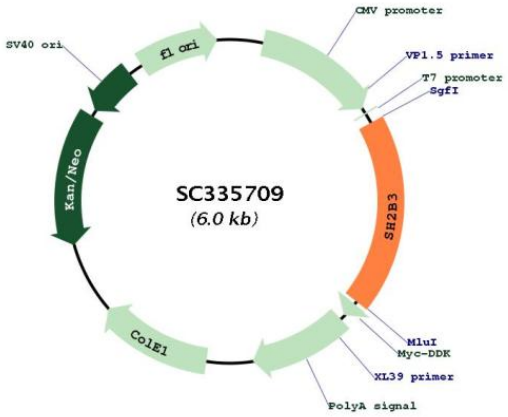
Plasmid Map:



ACCN:	NM_001291424
Insert Size:	1122 bp
OTI Disclaimer:	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).
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_001291424.1
RefSeq Size:	4500 bp
RefSeq ORF:	1122 bp
Locus ID:	10019
UniProt ID:	Q9UQQ2
Cytogenetics:	12q24.12
Protein Pathways:	Neurotrophin signaling pathway
MW:	41.4 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] Transcript Variant: This variant (2) lacks two alternate exons in the 5' region, including a portion of the 5' coding region, and initiates translation at an alternate start codon in an alternate exon, compared to variant 1. The encoded isoform (2) has a distinct N-terminus and is shorter than isoform 1.