

Product datasheet for **MC203727**

Sh2b3 (NM_008507) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sh2b3 (NM_008507) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sh2b3
Synonyms:	A1429800; L; Lnk
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC006759
 GATGGGCTCGGGCCGTCGCCTCCGCCTGGCCGCTCTCCAGCCCAGACTGTACGGGCCACACGGGGTCCA
 CATCGGCGGGCGCAGCAGCAGCAGCGTCTGGGGACGGCCCGAGGCCGCGTCCCCCGGCTGCTGTCAGGA
 GCTGGCGGGGAAATGAGGCGCTGGCCGTTTTCCGAGCCGGGTTTCTGCCTGAGCGCCGAGAGGCCGT
 GCGACGCCATGGGCCGGCCGGCCCCGACCCGACAGTTGCGCGCCCGGCCCGCCCGCCTCGCTCTCCACC
 ATGAACGAGCCCACCGTGCAGCCGTCCCGCACATCCTCCGACCCGCTCGCCGGCATCCCCACGGGGT
 GGAGCGACTTCTGCGAGCAGCACGACGAGCGGGCCGGGAGCTGGCCCGCAGTACTGGTTGTTTGC
 GCGCGCGCACCCACAGCCGCGCGCGGACCTGGTGTGCTGAGTTTCGCGGAGCTCTCCAGCGCCAC
 TTCTGCCGGGAGGTGCGCGAGAGCTCGCAGGACCGCGGGTACGACTACCGCGCCACTGCTCCGCCCC
 GCCCCGCGCTGCCAAGGCACGCAGCTCCGAGGACCTGGGCCCGCGCCCGCCTGTGCCCTGCAGCACCT
 GCGCCGCGGCTGCGCCAGCTCTCCGCGCCGCTCGGCAGGGGAGCTGCCGGGGTACCAGTGACACC
 AATGACATCGACACCACCGCAGCAGCAGGCGGGCCCGCCGCAAGTTGCTACCCTGGGGCTGCGAG
 AGCCGCCACTGAGGCGCTCAAGGAGTGTATTGCGCTATAGCCTGGCGGACGAGGCAGCAATGGACAG
 CGGCGCAGCTGGCAGCGGGTGCCTGGTGTCTCGGTCTCCAGGTCCGGGCCACAGCCACTTTCTGCAG
 CTCTTCGATCCGCCAAGAGCTCAAAGCCAAGTCCAAGAGGCTGTTCCAGCATCCGGGAGGTCCGAC
 CATGTACACGCCTGGAGATGCCTGACAACCTCTACACCTTTGTGTGAAGGTGCAGGACCAGACAGACAT
 CATCTTTGAGGTGGGAGATGAACAGCAGCTGAACTCATGGCTGGCAGAGCTCAGGCAAGCACAGGCCTT
 GGGCTGGAGCACCCGGACACCGAGTTACCTCTTTCCTTAGCGGCAGAGCCTGGCCAGCTAGATCCCCAA
 GGGGAAGCACTGACTCCCTGGACCAAGGTGCTTACCTGGGGTGTGCTGGACCCAGCCTGCCAGAAAAC
 AGATCACTTCTATCCTGCTACCCTGGTTCCACGGCCCCATCTCCAGGGTGAGGGCTGCACAGCTGGTC
 CAGCTCCAGGGCCCTGATGCCACGGCGTGTCTGTTGCGGCAGAGTGAAGTCCCGGAGAGGAGATG
 TACTCACATCACTTACAGGGCAGAGCAAGCACTTACGCTGGTGTCTACAGAGCGTGGACAGTGGCCG
 GGTGCAACACCTGCACCTCCCCTCGGTGGTAGATATGCTCCGCCACTTCCAGCTTCTCTATCCCCTG
 GAATGTGGAGCAGCTTGTGACGTCCGACTCTCTGGCTATGTGGTAGTCTCTCAGGCACCAGGTTCTT
 CCAACACCGTCTCTTCCCTTTTCCCTTCTACTGGGATTCGAGCTGGGTATCCCCACCTCAGCTC
 TGTGGCTGTCCCCCAGCCATGGTGCAGAGGCTCTCCCTGGCCAAGTGACACCACCTGAGCAGATCTT
 CACCTGGTGCCTTCTCCTGAGGAACTGGCCAACAGTCTGCGGCAGCTGGAGCTCGAGTCTGTGAGCAGT
 CCCGGGACTCGGACTATGACATGGACTCTTCCACGGGGCCACCTTCGGGCCATTGACAACCAAGTACAC
 CCCTCTCTCAGAGCTGTGCAGAGAGGCAGAGTGAATGGAACCACTTCTCCCTCCAGAGAATAT
 AGGCTGTGTGAGCTTCCCCAGCTCAGATGTGCCCGCTTCAAACACACAAAGGCTGTACAGGCTTC
 CTGTGACGAGAGCTAGCCCCCGCTTCTCCACTGTTTACAGATGTAGTTCTTGTGCACAGGTGCCAC
 TAGCTGGTACCCTAGGCCTAGTCCCAACCCAAAGGAGGTGGGGCTACAGGCCAGAGCTGGCAGTGGAA
 AACTGACAGAGCTGATGACAGACTTCTTACCAGGCAGGGTTCATCGGGAAGCACAAAACACTAACAGTCCC
 TGGATTCTCACATGGTGTCTTCCCTGTAGCTTACAGATCTGTGGCAAGTCTCATGGGTTCCATGCCACA
 GGCGATGGATGCTTATGATCCTGCTCCTACTTACTTACGACAGAAAGCTCTGCCAGAGGGACAAGC
 TAAAGATCAAAATTGATTTAAACATTTTACCTCAGAGTACTTTTTTTGTTTTTAAAGGATTTCAG
 GTTCCATTTAATATTAAGCTTATTACTGCAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_008507

Insert Size: 1647 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: [BC006759](#), [AAH06759](#)

RefSeq Size: 2499 bp

RefSeq ORF: 1647 bp

Locus ID: 16923

UniProt ID: [O09039](#)

Cytogenetics: 5 61.99 cM

Gene Summary: This gene encodes a member of the SH2B family of adapter proteins that play an important role in T cell receptor signaling. This gene is preferentially expressed in hematopoietic stem cells, hematopoietic progenitors, pre and immature B cells, as well as megakaryocytes and mastocytes. In hematopoietic stem cells, the encoded protein is a key regulator of self-renewal, proliferation and apoptosis. Mice lacking the encoded protein exhibit pre and immature B cell expansion in spleen and the bone marrow. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2015]
Transcript Variant: This variant (1) encodes the longer isoform (1). Variants 1, 2 and 3 encode the same protein (isoform 1).