

Product datasheet for **MG208726**

Sh2b3 (NM_008507) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sh2b3 (NM_008507) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sh2b3
Synonyms:	A1429800; L; Lnk
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208726 representing NM_008507
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAACGAGCCACCGTGCAGCCGTCCCGCACATCCTCCGCACCCGCCTCGCCGGCATCCCCACGGGCT
 GGAGCGACTTCTGCGAGCAGCACGCAGCAGCGGGCCGGGAGCTGGCCCGCCAGTACTGGTTGTTTGC
 GCGCGGCACCCACAGCCGCCGCGCGGACCTGGTGTGCTGCAGTTTCGCGGAGCTCTCCAGCGCCAC
 TTCTGCCGGGAGGTGCGCGAGAGCCTCGCAGGACCCCGGGTACGACTACCGCGCCACTGCTCCGCCCC
 GCCCGCGCTGCCAAGGCACGCAGCTCCGAGGACCTGGGCCCGGGCCCGCTGTGCCCTGCAGCACCT
 GCGCCGCGGCTGCGCCAGCTCTCCGCCCGGCTCGGCAGGGGAGCTGCCCGGGCTACCAGTGACACC
 AATGACATCGACACCACCGCAGCAGCAGGCGGGCCCGCCGCAAGTTGCTACCCTGGGGCTGCGAG
 AGCCGCCACTGAGGCGCTCAAGGAGGTCGATTGCGCTATAGCCTGGCGGACGAGGCAGCAATGGACAG
 CGGCGCAGCTGGCAGCGGGTGCCTGGTGTTCGGTCTCCAGTCCGGCCACAGCCACTTTCTGCAG
 CTCTTCGATCCGCCAAGAGCTCAAAGCCAAGCTCCAAGAGGCTGTTCCAGCATCCGGGAGGTCCGAC
 CATGTACACGCCTGGAGATGCCTGACAACCTCTACACCTTTGTGTTGAAGGTGCAGGACCAGACAGACAT
 CATCTTTGAGGTGGGAGATGAACAGCAGCTGAACCTCATGGCTGGCAGAGCTCAGGGCAAGCACAGGCCTT
 GGGCTGGAGCACCCGGACACCGAGTTACCTCTTTCCTTAGCGGCAGAGCTGGCCAGCTAGATCCCCAA
 GGGGAAGCACTGACTCCCTGGACCAAGGTGCTTACCTGGGGTGTGCTGGACCCAGCCTGCCAGAAAAC
 AGATCACTTCTATCCTGCTACCCTGGTTCACGGCCCCATCTCCAGGGTGAGGGCTGCACAGCTGGTC
 CAGCTCCAGGGCCCTGATGCCACGGCGTGTTCCTGGTGGCAGAGTGAAGTCCCGGAGAGGAGAGTATG
 TACTCACATTCACTTACAGGGCAGAGCCAAGCACTTACGCTGGTGTCTACAGAGCGTGGACAGTCCCG
 GGTGCAACACCTGCACTTCCCCTCGGTGGTAGATATGCTCCGCCACTTCCAGCTTCTCCTATCCCACTG
 GAATGTGAGCAGCTTGTGACGTCGACTCTCTGGCTATGTGGTAGTCTCTCTCAGGCACCAGGTTCTCT
 CCAACACCGTCTCTTCCCTTTTTCCCTTCTCACTGGGATTTCGGAGCTGGGTATCCCCACCTCAGCTC
 TGTGGCTGTCCCCCAGCCATGGTGCAGAGGCTCTCCCTGGCCAAGTGACACCACCTGAGCAGATCTTC
 CACCTGGTGCCTTCTCTGAGGAAGTGGCCAACAGTCTGCGGCAGCTGGAGCTCGAGTCTGTGAGCAGTG
 CCCGGGACTCGGACTATGACATGGACTCTCTTACGGGGCCACCTTCGGGCCATTGACAACCAGTACAC
 CCCTCTCTCACAGCTGTGCAGAGAGGCAGACGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208726 representing NM_008507
 Red=Cloning site Green=Tags(s)

MNEPTVQPSRTSSAPASPASPRGWSDFCEQHAAAAARELARQYWLFAHAHPQPPRADLVSLQFAELFQRH
 FCREVRESLAGPPGHYRATAPPRPALPKARSSDLGPRPACALQHLRRGLRQLFRRRSAGELPGATSDT
 NDIDTTAASRPGPARKLLPWGLREPPTEALKEVVLRYSLADEAAMD SGARWQRGRLVLRSPGPHSHFLQ
 LFDPPKSSPKLQEAACSSIREVRPCTRLEMPDNLTYFVLKVQDQTDIIFEVGEQQLNSWLAELRASTGL
 GLEHPDTELPLSLAAEPGPAPRSTDSLQGASPGVLLDPACQKTDHFLSCYPWFHGPISRVRAAQLV
 QLQGPDAHGVFLVRQSESRREYVLT FNLQGRAKHLRLVLTERGQCRVQHLHFPSVVDMLRHFQRSPIPL
 ECGAACDVRLSGYVVVLSQAPGSSNTVLPFSLPHWDELGHPLSSVGCPPSHGAEALPGQVTPPEQIF
 HLVPSPHEELANSLRQLELESVSSARDSYDMDSSSRGHLRAIDNQYTPLSQLCREADV

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_008507

ORF Size: 1644 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_008507.4](#)

RefSeq Size: 2498 bp

RefSeq ORF: 1647 bp

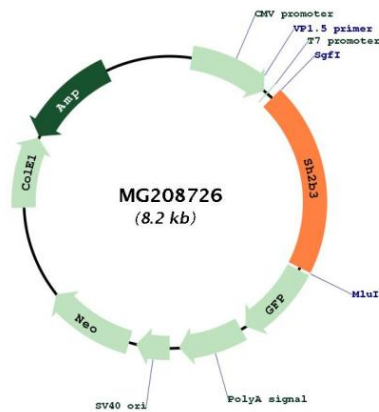
Locus ID: 16923

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]

Product images:



Circular map for MG208726