

Product datasheet for **MC222562**

Sh3pxd2b (NM_177364) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sh3pxd2b (NM_177364) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sh3pxd2b
Synonyms:	fad49; G431001E03Rik; TSK4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222562 representing NM_177364
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCCGCGCGCAGTATCGTGGAGGTGAAGGTGCTGGACGTGCAGAAGCGGCGCGTGCCCAACAAGC
 ATTATGTCTACATCATCCGAGTCACGTGGTCCAGTGGCCACCGAGGCCATCTACCGGCGCTACAGCAA
 GTTCTTTGACCTCCAGATGCAGATGTTGGACAAGTTCCCCATGGAAGGAGGACAGAAAGACCCCAAGCAG
 AGGATCATTCCATTTCTGCCAGGCAAAATCCTCTTCCGCCGACGCCACATCCGGGACGTAGCCGTCAAAC
 GCCTGATACCAATTGATGAATATTGTAAGGCCCTGATCCAGCTGCCCCCTACATCTCTCAGTGTGATGA
 GTTCTGCAGTTTTTCGAGACAAGACCTGAGGACCTGAATCCTCCAAAGAGGAGCATATTGGGAAGAAG
 AAATCAGGGAATGACCCGACCTCAGTGGACCTATGGTCTGGAGCAGTATGTGGTAGTGGCAGACTATC
 AGAAGCAGGAGAGCTCAGAGATCAGCCTCAGTGTGGCCAAGTAGTGGACATCATTGAGAAGAATGAGTC
 AGTGTGGTGGTTCGTCAGCACTGCTGAAGAGCAGGGCTGGGTCCCTGCAACCTGCCTGGAAGGCCAGGAT
 GGCGTGCAAGATGAGTTCTCCCTCCAGCCTGAGGAAGAGGAGAAATATACGGTCACTACCCGTACACAG
 CTCGTGACCAGGATGAAATGAACCTAGAGCGAGGGGCTGTGGTGGAGGTCGTCCAGAAGAACCTGGAGGG
 CTGGTGGAAAGATCAGGTACCAGGGCAAAGAGGGCTGGGCCCTGCTTCTACCTAAAGAAGAAGCAGTGGG
 GAGCCCTTGCCCCAAAGCTTGGCCCCAGCTCACCTGCTCACTCGGGTGCCTCGACCTGGATGGTGT
 CCCGGCATCAGAAATGCTATGGGCAGGGAGAAGGAGCTGCTGAACAACAGAGGGATGGCCGGTTTGAAGG
 TCGCCTGGTGGCCGATGGTGACGTTAAGCAGAGATCACCAAGATGAGGCAAAGACCCCTCCTCGCCGA
 GACATGACCATTCCCTCGAGGCCCAACCTGCCAAGCCCCCATCCCACCCAGGTGGAGGAAGAGTACT
 ACACATCGCTGAGTTCCAGACCACCATCCCAGATGGCATCAGCTTCCAGGCGGGCTGAAGTGGAGGT
 GATTGAGAAGAGCCATAAGTGGTGGTACATTACAGATGGAAGATAAGGAGGGGTGGGCCCCAGCGGACC
 TTCATTGACAAGTATAAGAAGACCAGCAGTGCCTCGAGGCCAACTTTCTGGCCCCCTTGCCCTATGAGA
 TGACCCAGCTCCGGCTTGGGATGCAGCTGCAACAGAGAACAATACGGGTCCAGAAGCCGTGGGGCCCTC
 CAGACCCTGCCTGAGGCACCACCGGTGCTGTGGACTCTGGGATGCTCTGGTCCAAAGACTGAAAGGA
 GGAAAAGAGGCCCAAGAAAGGCATCTCAGACCTGTCTGCGTCAACAGGATATGAGGAGATCTCGGACC
 CCACACAGGAGGAGAAGCCAGCCTCCCTCCACGAAAGAGTCCATCATCAAGTCTGAAGAGGAGTTGCT
 GGAGAGGGAAAGACAGAAGATGGAGCCGCTCCGGGCTCCTCCCCAAGCCCCCTGGCATGATATTGCCA
 ATGATTCCAGCAAAGCATGCCCGCTGGCCCGGACAGCAGGAAACCAGAGCCCAAACCTTGACAAGAGCA
 AGTTCCCGCTGAGAAATGACATGGGGTTAGAGTGTGGCCACAAGGTGCTGGCCAAGGAAGTGAAAAGCC
 CAACCTCCGGCCATCTCCAGGTCTAAAGCTGAGCTGTCCGAGGAGAAGGTGGACCCACCTCCCAGAAT
 CTGTTCAATGAAGTCTAGACCTCAGGTTAGGCCAAACCACTCCTTCCCCAAGACAGAGCCAGCTCAGA
 GTGAAGACCACGTGGATATCTACAACCTCAGGAGCAAGCTCAGACCTGCCAAGTCTCAAGAGAAAGCCTT
 ATTGGATGGAGAAAGCCACCATGCTGCTGGGAGCCATGACACAGCCCTCAGCAGAAGCTTCTTCCCGGG
 GAGGGACCTGGCCATGGCCAGGACAGGTCTGGCAGACAGGATGGGCTGAGTCCAAAGGAGACACCTGCA
 GAGCCCTCCCAGGCCAGCAAGACCACAGACCCTGGGCCAAGAATGTGCTGTGCCTGTCCAAGAAGC
 AACCTGCAGCAAAGACCTGTGGTCCCACCTCGAAGACCCCAACCCCAAGAAAACCTCCTCGTACCA
 CTGTGTCGAGGCCCTTCCAGAGGTGACAGGGGCACAGCGTGAAGAAAGCAGAGTCTGCTGTCAG
 GCCGGGCCCTCCTTGTCCCTCCAAAAGCAAACCTTCTCTTAACCTCCTCAGTGGGCCAAGATGACAT
 GCGAGGCAAAGGTGGGCTGGGGCCACGCGTCACTGGCAAGGTGGGAGAAACCAGAGAGAAGGCGGCTTCC
 TTCTCAATGCCGATGGCCAAAGGACTCACTTACGTGGCCGTGGCCAACCTTTGAAGGAGATGAAGACA
 CCAGCAGCTTCCAGGAAGGGACAGTGTGTAAGTCCGGGAGAAGAACAGCAGTGGCTGGTGGTTCTGCCA
 GGTCTCAGTGGGCTCCTTCTGGGAAGGCTGGATTCCTTCCAACCTACCTCCGGAAGAAACCC**TAG**

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII
ACCN: NM_177364

Insert Size:	2727 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:	<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:	<u>NM_177364.3</u> , <u>NP_796338.2</u>
RefSeq Size:	7432 bp
RefSeq ORF:	2727 bp
Locus ID:	268396
UniProt ID:	<u>A2AAY5</u>
Cytogenetics:	11 A4
Gene Summary:	Adapter protein involved in invadopodia and podosome formation and extracellular matrix degradation. Binds matrix metalloproteinases (ADAMs), NADPH oxidases (NOXs) and phosphoinositides. Acts as an organizer protein that allows NOX1- or NOX3-dependent reactive oxygen species (ROS) generation and ROS localization. Plays a role in mitotic clonal expansion during the immediate early stage of adipocyte differentiation.[UniProtKB/Swiss-Prot Function]