

## Product datasheet for **MC223641**

### Sh3pxd2a (NM\_008018) Mouse Untagged Clone

#### Product data:

|                      |   |
|----------------------|---|
| Product Type:        | Expression Plasmids   |
| Product Name:        | Sh3pxd2a (NM_008018) Mouse Untagged Clone   |
| Tag:                 | Tag Free  |
| Symbol:              | Sh3pxd2a  |
| Synonyms:            | 2310014D11Rik; AA589508; AI256723; AI413738; C230050L11; EG329070; Fish; Gm5098; Sh3md1 |
| Vector:              | pCMV6-Entry (PS100001)  |
| E. coli Selection:   | Kanamycin (25 ug/mL)  |
| Cell Selection:      | Neomycin  |
| Fully Sequenced ORF: | >MC223641 representing NM_008018<br>Red=Cloning site Blue=ORF Orange=Stop codon         |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTCGCCTACTGCGTGCAAGATGCCACCGTGGTGGACGTGGAGAAGCGGAGGAGCCCTCTAAACACT  
ATGTATACATTATCAACGTGACCTGGTCTGACTCCACCTCCCAGACTATCTACCGAGGTACAGCAAGTT  
CTTCGACCTGCAGATGCAGCTTCTGGATAAGTTTCTATTGAAGGTGGCCAGAAGGATCCGAAGCAAAGG  
ATTATTCCTTTCTCCAGGCAAGATCCTTCCGGAGAAGCCACATCCGCGACGTGGCTGTGAAGAGAC  
TAAAGCCCATCGATGAATACTGCAGGGCGCTTGTCCGGCTGCCGCCACATTTACAGTGTGACGAAGT  
CTTCCGGTTCTTTGAGGCACGGCCTGAGGATGTCAACCTCCAAAAGAAGACTATGGCAGTTCGAAGAGG  
AAATCAGTGTGGTTGTCCAGCTGGGCTGAGTCTCCCAAGAAGGACGTGACAGGTGCCGACCAACGCCCG  
AGCCCATGATCCTGGAACAGTACGTGGTGGTGTCCAACATAAGAAACAAGAACTCGGAGCTGAGCCT  
CCAGGCCGGGGAGGTGGTAGATGTATCGAGAAGAACGAAAGCGGCTGGTGGTTTGTGAGCACATCTGAA  
GAGCAAGGTTGGGTCCCCGCCACCTACTTGAGGCCCAGAATGGCACACGAGACGACTCGGACATCAACA  
CCTCAAGACTGGGAAGTGTCCAAGAGACGCAAGGCACACCTGCCGGCCTGGATCGCCGGTGGACCT  
GGGCGGGATGGTCAACAGGCAGCACAGCCGAGAAGAGAAGTATGTCACTGTGCAGCCCTACACCAGCCAG  
AGCAAAGACGAGATCGGCTTCGAGAAGGGTGTCCCGTGGAGGTATTGAAAGAACCTGGAAGGCTGGT  
GGTACATCAGGTACCTCGGCAAAGAGGGTTGGGCACCAGCGTCTACCTGAAGAAGGCCAAGGATGACCT  
GCCGACCCGGAAGAAGAACTGGCGGGTCCGGTGGAGATCATAGGGAACATTATGGAGATCAGCAACCTT  
CTCAACAAGAAGGCATCTGGGATAAGGAGGCTCCGGTGAAGGCGAGGGATCCGAGGCCCCATCACCA  
AGAAAGAGATCAGCTTACCGATCCTCTGCAACGCCTCAAATGGCAGCGCCTTGGCCATTCAGGAGGAC  
CACATCAAGCTAGCCAGGGCTCCCCAGCTGTGGCCAGGATCGCCCTCAGAGGGCCAGATCAGCTCC  
CCAAATCTGAGGACAAGACCTCCCCGCGCAGAGAATCCAGCCTGGGGTTCAGCTGCCAAAGCCGCCAG  
AGCCCCCTTCTGTTGAGGTAGAATACTACACCATTGCTGAATTCAGTCTGATTTCTGACGGGATCAG  
CTTTCGAGGCGGACAGAAGGCAGAGGTATCGACAAGAAGTCCGGTGGTGGTGGTACGTGCAGATCGGG



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GAGAAGGAGGGCTGGGCCCCAGCCTCATACATTGACAAGCGCAAGAAACCCAACCTCAGCCGCCGAACCA  
 GCACTCTGACGCGGCCAAGGTGCCGCCACCTGCGCCCCCAGCAAGCCTAAGGAGGCCGAGGAGAATCC  
 TGTGGGTGCCTGTGAGAGCCAGGGCTCCCCTGAAAGGTTAAATACGAGGAACCCGAGTATGACGTCCCT  
 GCCTTTGGCTTTGACTCAGAGCCGAGATGAATGAAGAGCCTTCAGGGGACAGAGGTTTCCAGGTGACAAGC  
 ATCCCCCAGCCCCGAAGGATCTCGCTGCCTTCCCTGCAACGGGCCATTTCAAGGTGGGTGAGTC  
 TTCTGAGGACGTGGCCCTGGAAGAGGAGACCATCTATGAGAATGAGGGCTTCAGGCCATACACAGAAGAC  
 ACCCTGTCTGCCAGAGGCTCCTCTGGGGACAGTGACTCCCCTGGGAGCTCCTCTTTGTCCTTGGCGTGA  
 AAAACTCCCCTAAATCAGATTCGCCCAAATCCTCATCACTCCTAAAGCTCAAAGCAGAGAAGAATGCCCA  
 GGCAGAACTGGGAAAAACCAGTCCAACATCTCCTTCTCCTCCTCTGTACCATCAGCACCACTGTTCC  
 TCCTCCTCATCTCGTCCTCTTGTCCAAGAACAATGGTGACCTGAAACCACGTTCTGCCTCAGATGCAG  
 GTATCCGTGACACCCCTAAGGTTGGGACCAAGAAAGATCCTGATGTGAAGGCCGGGCTGGCTCCTGCGC  
 CCGAGCCAAGCCATCCGTGAGACCAAGCCAGTCTGAACCGAGCGGAGTCTCAAAGCCAGGAGAAGATG  
 GATATTAGTTCCTACGGCGCCAGCTGAGGCCACAGGCCAGTCCGGGGGGGCTCAAGGGCTCTAGGA  
 GTGAGGACTCAGAGCTGCCTCCACAGATGGCTTCTGAGGGATCCAGGCGAGGTTCTGCGGACATCATCC  
 TCTCACGGCCACCACTCCCCGTGTGTCCCAAAAAGGAATGGGAAGGGCAAGGCCACCTACGTGACG  
 TGACGCGCTATCAGAAGGTCCAGGACTCGGAGATCAGCTTCCCGAAGGCGCCGAGGTGCACGTGCTGG  
 AGAAGGCGGAAAGTGGTGGTGGTACGTGAGGTTTGGGGAGCTGGAGGGCTGGGCTCCTTCCCCTACTT  
 GGTGGCCGAGGAGAACCAGCAACCTGACACAGCTAGCAAAGAGGGAGACACAGGAAAGAGCTCGCAGAAC  
 GAGGGCAAGTCAGACAGCCTGGAAGATTGAGAAGCGTGTGACGGCGCTCAACTGTGAACCAGAGCA  
 AGAGGGCCACCCACCCATCCCCCGAAGCCTCCCGGGGGCTTCGGCAAGACCTCGGGCACCGTAGCGGT  
 GAAGATGAGGAACGGGGTCCGGCAAGTGGCCGTGAGGCCCAATCTGTGTTTGTGTCTCCGCCACCAAG  
 GACAACAACCTGTCTGTGCCCTTCGGAGGAACGAGTCGCTAACGGCCACCGACAGCCTCAGAGGTGTC  
 GCAGGAACCTCCTTTAGCACCGCAGGTGAGCAGCCGCTGAGGCCAAGGGCCGCTGGCCGAGCGGGC  
 TGCCAGCCAGGGCTCAGAATCGCCCTGTGTGCTACCCAGCGCAAGGCATCCCTGTCTCCCCCGTGCCT  
 CCCAAGCCATAGAGAAGTCCCAGTTTATCCACAACAACCTCAAGGATGTGTACATCTCGATTGCAGACT  
 ATGAGGGGACGAAGAGACGGCTGGCTTCCAGGAGGGGTGTCCATGGAGGTGCTGGAGAAGAACCCCAA  
 TGGCTGGTGGTACTGCCAGATCCTGGATGAGGTGAAGCCCTTCAAGGGCTGGGTACCCTCCAACCTACCT  
 GAGAAGAAGAACTAA

ACGGCTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

SgfI-MluI

**ACCN:**

NM\_008018

**Insert Size:**

3375 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\\_008018.4](#), [NP\\_032044.2](#)

**RefSeq Size:** 10464 bp

**RefSeq ORF:** 3375 bp

**Locus ID:** 14218

**UniProt ID:** [O89032](#)

**Cytogenetics:** 19 C3

**Gene Summary:** Adapter protein involved in invadopodia and podosome formation, extracellular matrix degradation and invasiveness of some cancer cells. 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. In association with ADAM12, mediates the neurotoxic effect of amyloid-beta peptide (By similarity).[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.