

Product datasheet for **MC224536**

Shank2 (NM_001113373) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Shank2 (NM_001113373) Mouse Untagged Clone
Tag: Tag Free
Symbol: Shank2
Synonyms: mKIAA1022; ProSAP1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224536 representing NM_001113373
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGTCTTTGTTAAATGCCTTACCAAGAAGGAAGTGCCTTCAGAGAGGCCCCAGCTTATCCAACC
 GCAGGCGGGCCCGCCCAACACATTGGCTGCCCCAGAGTTCTTCTGCGTTCTAATAGTGACAACAACCT
 CAATGCTGGTGCACCTGAATGGGCTGTCTGCTCTGCAGCCACCTCCACCGAAGCCTCTCACCCAACTG
 CTGCAGCAGACCCAGCAAACCTGATGGAGCCACCAAGAGCCTTGAAGCTATACCCCTGGGCCCGCA
 GCCGTTCCCTTCACTCAACAGGCTGGGTGACTGCTGAGGATGGCAAGAGGACACAGCCACATTGGCA
 TGTGGGGTTCGCCCTTCACTCCTGGTGCCAAAGGACTCCCTCTCGACCTTTGAGTACCCAGGGCCAGG
 AGGAAGCTATATAGTGCGGTGCCGGGAGACTTTCGTCGCCGTCAAGCCATACCAACCCCAAGTCGACG
 GCGAGATCCCCCTTACCGAGGGCAGAGGTCAAAGTTCGAGCATCGGAGAGGGCGGCTTCTGGGAAGG
 CAGTGCCCGTGGCCACATCGGGTGGTCCAGCTGAGTGTGTGGAAGAGGTGCAGTGTAAACCCGGGAC
 AGCCAGGCAGAAACCCGCGGGACCGCAGCAAGAAGCTTCCGGCATTACACGGTGGCTCCTATGACA
 GCTTTGATGCTGCCAGTGACTGCATTATTGAGGACAAGACGGTGGTCTGCAAAAGAAGGACAACGAGGG
 CTTTGGATTTGTGCTCCGAGGGGCAAAAGCCGATACCCCAATTGAGGAATTCACACCCACGCCAGCATT
 CCAGCCCTGCAGTACCTGGAGTCCGTGGATGAAGGTGGGGTGGCATGGCAAGCCGACTAAGGACCGGGG
 ACTTCTTGATTGAGGTTAACAATGAAAATGTCGTCAGGTGGGCCACAGGCAGGTGGTGAACATGATCCG
 CCAGGGAGGGAATCACCTCATCCTTAAGGTCGTCACGGTGACCAGGAATCTAGACCCTGATGATACAGCC
 AGAAAGAAAGCTCCCCACCTCAAAGCGGGCTCCGACCACGGCCCTCACCTGCGTTCCAAGTCCATGA
 CAGCGGAGTTGGAGGAACTCGTGGACAAAGCCTCAGTCCGGAAGAAGAAGGATAAACCGGAAGAGATAGT
 CCCAGCCTCAAGCCCTCAGGACTGCAGAGAACGTGGCCATCGAATCCAGGGTGGCGACCATCAAGCAG
 CGGCCACAAGCCGTGCTTCCAGCTGCCTCTGATGTGAATTCGTGTACGAGCGCCAAGGGATTGCTG
 TAATGACGCCACGGTCCCTGGGAGCCGAAAGGCCATTTCTGGGCCTCCCTCGAGGTACGATGCGAAG
 GCAGAAATCGATAGACAGCAGAATCTTTTATCAGGGATAACAGAGGAAGAGCGGCAGTTTCTGGCTCCC
 CCAATGCTGAAGTTCACCCGAAGCTTGTCCATGCCAGACACTTCTGAGGACATCCCCCTCCGCCACAGT



[View online >](#)

CTGTGCCCCCTCTCCCCCTCTCTTCCCCACCACATACAACGTCCCAGGTCCCCGACTCCAAGAGT
 CTATGGGACAATTAAGCCCGCTTCAATCAGAACCCCGTCGTCGCAAGGTGCCCCAGCCACCAGGTCT
 GACTGTGGCCACCATGATGCGGGAAAAGGGATGTTCTACAGGAGAGAGCTGGACAGATTTTCCCTGG
 ACTCAGAAGACGTCTACAGCCGACGCCCGCCCCACAGGCCGCTTCCGCACCAAGCGGGGACAGATGCC
 TGAGAACCCGTAAGAGGTGGAAAGATAGCCAGCAAGGCCGTCTATGTCCTGCCAAGCCAGCCAGG
 CGGAAGGGCGTGTGGTAAAGCAGTCCAACGTGGAGGATAGCCCCGAGAAGACGTGCTCCATACCCATCC
 CAACCATCATCGTCAAGGAACCTCCACCAGCAGCAGCGGCAAGAGCAGCCAGGGGAGCAGCATGGAGT
 TGACCCCGAGGCCACCGAGCCCGCCAGCTGCGGCCAGATGACAGCCTCACCGTACAGCAGCCCTTGCT
 GCGGCCATCGCTGGGGCTGTGCGTGACCGGGAGAAGCGTCTGGAAGCCAGGAGGAATTCCCCAGCCTTCC
 TCTCCACCAGCTGGGAGATGAGGACGTGGGTCTGGGGCCGCTGCTCCCCGGATGCAGGCCCTCAAAGT
 CCCAGAGGAGGGTGGTTTGGTGACGAGGATGAGACGGAACAACCGCTGTTGCCTACCCCGGGGACGCA
 CCCAGGGAGCTGGAGAATCACTTCTAGGTGGTGGTGGGCTGGTCTCAGGGGGAGGCTGGGGACCCC
 TGAGTTCCACATCAAAGCCAAGGGCCTGAGAGTGGCCAGCAGCCCCCTCAAGAGCAGCAGCCAGC
 CGGCCCTGAGAATTACGTGCACCCTCACAGGGCGGCTGTTGACCCAGCTCCCCTGCCCCCTGGCA
 CTCTCAGCCAGGACCGACCCATGCAGGAGTCCCAGCAGGGGCACAAAGGAGAGGCCCCCAAGGCTGACC
 TTAACAAGCCTCTCTACATCGATACAAAATGCGGCCAGCGTGGAGTCCGGCTTCTCTCCAGTCCACG
 ACAGAACACCAGGGTCCCCTGCGACGGCAAGAGACAGAGAACAAGTACGAGACAGACCTGGGCAAGGAC
 CGGAGGGCGGACGACAAGAACAATGCTGATCAACATCGTGGACTGCCAGCAGAAGTCAAGTGGCC
 TACTGATGGTGCACACAGTGGACGTCCCATGGCCGGCCACCCCTGGAGGAAGAGGAGGACAGAGAGGA
 TGGGGATACAAAGCCAGACCACTCACCTCCACAGTGGCAGAAGCGGTTCCAAAACCGAAGGTGCTTTA
 CAGATCTCCGCTGCCCGGAGCCCGCTGCGCCCGGACAGGACCATCGTGGCGGGGCTCCGTGGAAG
 AGGCGGTGATTCTGCCATTCCGCATCCCCCTCCCCCTGCGCATCCGTGGACTTGGATGAGGACTTTCT
 TTTACAGAACCCTTGCCTCCCCCTGGAATTCGCAATAGTTTTGATATCCCCGATACCCGGGACCT
 TCAGTCCCCTGCTGGCTGACCTGGTCAAGCAGAAGAAAACGACACCCCTCAGCCCTACGTTGAACT
 CCAGCCAACCAGCCAACCTCCACAGACAGTAAAGAGCCAGCCGATCTCGAACTGTCTGCCCTCCTCGTT
 CCTGCCACCCCGAAAGTTTCGATGCAGTCAACGACTCGGGATTGAGGAGGTGGACAGCCGGAGTAGC
 AGCGACCACCCTGGAGACTACCAGCACCATCTCCACGGTGTCCAGCATCTCCACGCTGTCTCAGAGG
 GCGGGGAGAGCATGGACACCTGCACAGTCTATGCAGACGGGAAGCCTTTGTGGTTGACAAGCCCCAGT
 ACCTCAAAGCCAAAAATGAAGCCATCGTTACAAGAGCAACGCACTTTACCAAGACACGCTCCCAGAA
 GAGGACACGGATGGCTTTGTGATCCCCCACCCTGCACCCCGCCCCGGGCGAGGCCAGGCCGGTG
 TGCGGAAGGTATCCAGCCAAGGACCTCAAGTTGTGGGTGACGTTCCAGAGGTCAAAGCCCAATTCT
 CTAGGCCCAAAGGCAAAATGTCATTAGTGAGCTAACTCCATTCTGCAGCAGATGAACAGGGGAAATCG
 GTCAAGCCCGGGGAAGGGCTGGAGCTGCCGGTGGGAGCCAAGTCCGCCAACCTCGCTCAAAGAAGCCCG
 AGGTATGAGCACCGTCTCAGGTACACGGAGCAGCAGGTCACCTTCACTGTCCGCCCTGGCACCTCCCA
 GCCCATACCCTGCAGAGCCGGCCCCCGACTATGAAAGCAGAACCTCAGGACCTAGACGCGCCCCAAGC
 CCTGTGGTTTACCAACGGAATTGAGCAAAGAGATCCTGCCACCCCTCCCCCTCCGTCCGCCACTGCAG
 CCTCTCCCTCCCCCACTCTCAGATGTCTTTAGCCTTCCGAGCCAGTCCCCTGCAGGGGACCTCTTTGG
 CTTGAACCCAGCAGGACGGAGCAGGTACCATCTCCTTCAATATTGCAACAGCCAATCTCAAATAAGCCT
 TTTACAATAAGCCTGTCCACCTGTGGACGAAACCAGATGTGGCAGACTGGCTGGAAAGCTGAACTTGG
 GTGAACACAAGGAGACGTTTCATGGACAATGAGATTGACGGCAGCCACCTGCCAAACCTTCAAGGAAGA
 CTTGATAGATCTTGGGTGACTCGAGTTGGGCATAGGATGAACATAGAAAGGGCTTTGAAACAGCTGCTG
 GACAGATAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001113373
Insert Size: 4419 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_001113373.2</u> , <u>NP_001106844.2</u> |
| RefSeq Size: | 6359 bp |
| RefSeq ORF: | 4419 bp |
| Locus ID: | 210274 |
| UniProt ID: | <u>Q80Z38</u> |
| Cytogenetics: | 7 F5 |
| Gene Summary: | <p>Seems to be an adapter protein in the postsynaptic density (PSD) of excitatory synapses that interconnects receptors of the postsynaptic membrane including NMDA-type and metabotropic glutamate receptors, and the actin-based cytoskeleton. May play a role in the structural and functional organization of the dendritic spine and synaptic junction (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) represents the longer transcript and encodes the longer isoform (b). 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.</p> |