

Product datasheet for MC225206

Shank1 (NM_001034115) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Shank1 (NM_001034115) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Shank1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC225206 representing NM_001034115 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACCCACAGCCCCGCGACAAGCGAGGACGAGGAAAGACACAGTGCCAGCGAGTGTCCCGAGGGGGCT
CAGAATCGGACAGCTCCCAGACGGGCCAGGAAGAGGCCCCAGGGGACTCGGGGCCGAGCAGCGGAGC
ACCTGGTAACCTGGCCTCTACCCGAGGCCCTCAGGGACGCTCCATGTCTGTCCCTGACGACGCCACTTC
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CCACCATCTGGACAGCCAAACAGCAAGTACTCTGTGCCCTGAGCGAGAGTCTACAGGACGTGCTGAACTA
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GAGGCCGGCCAGCTCCAGCGGGACACCCGAGATGGGCCGCTGGGGAACTGGGGGCTCAGGGGGCC
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GCGGTGAAGTCTACCAGGCGCAAGGCGAGGGGAGATCTCTCTGAGTAAAGGCGAAAAGATCAAAGTGC
 TCAGCATCGGGGAAGGAGGCTTCTGGGAAGGCCAGGTCAAAGGTCGAGTTGGCTGGTTCCCTTCTGACTG
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TGAGACCTGGTCCCAGTGGGGGACTTCGAGATCCTGTACCCCCACCAGCCCCACCGTCTCTGTGACAGG
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 GGATCTGGGGTCTCCTCTTCAACAGCTGCAGCCCCAGGAGCTACATCCCCTTCAGCCTCATCTGCCTCAG
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 TCAGGACCCCTTACCCGGGCTCTTCGACATCCGTAGCTCTCCGACCGGAGGGGAGGAGGCTCGGCTG
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 GGCTCTCGCTCCATACCCACCCGCTGCTCTCGTGCCTCCCGGACAAGCCGTTCCGGCCAAAGCCT
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 CGTGACCAGGGTGGGCCACCGTATGAACATTGACCGGGCTCTCAAATTTTCTGGAGAGGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001034115
- Insert Size:** 6504 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_001034115.1, NP_001029287.1
- RefSeq Size:** 7596 bp
- RefSeq ORF:** 6504 bp
- Locus ID:** 243961
- UniProt ID:** D3YZU1
- Cytogenetics:** 7 B3

Gene Summary:

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. Plays a role in the structural and functional organization of the dendritic spine and synaptic junction. Overexpression promotes maturation of dendritic spines and the enlargement of spine heads via its ability to recruit Homer to postsynaptic sites, and enhances presynaptic function (By similarity).[UniProtKB/Swiss-Prot Function]