

## Product datasheet for **RN200190**

### Shank2 (NM\_201350) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Shank2 (NM\_201350) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Shank2  
**Synonyms:** CortBP1; ProSAP1; Spank-3  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN200190 representing NM\_201350  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGCCACGCAGCCCCACATCCAGTGAGGACGAGATGGCCAGAGTTTCTCTGACTATTCTGTGGGCTCAG  
AGTCAGACAGCTCAAAGAAGAGACCATCTATGACACGATCAGAGCCACCACAGAGAAGCCAGGCGGGGT  
GAAGATGGAGACCTCCAGGGTAATACCCTGGTATTGAGTGGTTCATCCAGGATCTGCAGCAGACGAAG  
TGCAATCGATTTAACCCGACGCCACCGTGTGGGTGGCCAAGCAGCGGATCTGTGCACGCTGAACCAAG  
GCCTGAAGGATGTAACAATATGGGCTCTTTAGCCCGCCAGCAACGGGCGTGACGGCAAGTTCCTGGA  
TGAGGAACGGCTCCTGCGGGAATACCCACAGCCCATGGGCCAGGGTGTGCCTTCCTTGGAGTTTCGCTAC  
AAGAAGCGTGTGTACAAGCAGTCCAACCTGGATGAGAAGCAGCTGGCCAGGCTCCACACAAGACCAATC  
TGAAGAAGTTTATGGACCACACTCAGCATCGCTCAGTGGAGAACTGGTCAAGCTCCTGGACAGAGGCT  
GGATCCCAATTTCCATGACCTGGAGACTGGAGAGACGCCCTGACCCTGGCTGCCAGCTCGATGGCTCC  
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CCCTTACAAGGCTGCCGGATGAGGAACAGGTTGCCCTGAAGACCCTCCTGGAGCTTGGCGCCTCCCC  
AGATTACAAGACAGCTACGGGCTCACACCGCTGTATCACACGGCCATTGTGGGGGTGACCCCTTACTGC  
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GAATGCCTCAGGGAACACAGCCCTGCATATCTGCGCCCTACAATCAGGACAGCTGTGCCAGAGTCCCTA  
CTGTTTCGGGGTGGAGACAAGGAGTTGAAAACTACAACAGCCAGACACCGTTCCAGGTGGCTATAATAG  
CGGGGAACCTTGAACCTGCCGAGTACATCAAGAACCACAAGGAACAGACATTGTGCCCTCCGAGAGGC  
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CGCCCCCTGGGCCCGCAGCCGCTCTCCCTCACTCAACAGGCTGGGTGGCGCTGGTGGAGGATGGCAAGAGG  
CCACAGCCGCCACATTGGCATGTGGGTGCGCCTTCACTCCTGGTGCCAAACAAGGACTCCCTCTCGACCT



TTGAGTACCCAGGGCCCCGGAGGAAGCTGTATAGTGCGGTGCCTGGGAGACTCTTCGTGCGCCATCAAGCC  
 ATACCAACCCCAAGTCGACGGCGAGATCCCCCTTACCGAGGCGACAGGGTCAAAGTTCTGAGCATCGGC  
 GAGGGCGGCTTCTGGGAAGGCAGCGCCCGTGGCCACATCGGGTGGTTCCAGCTGAGTGTGTGGAGGAGG  
 TACAATGTAAGCCCCGGGACAGCAAGCAGAAACCCGTGCGGACCGCAGCAAGAAGCTCTTTCGGCATT  
 CACAGTGGGCTCCTATGACAGCTTTGATGCTGCCAGTACTGCATTATTGAGGACAAGACGGTGGTCTG  
 CAGAAGAAAGACAACGAGGGCTTTGGATTTGTGCTCCGAGGGGCAAAGCTGATACCCCCATTGAGGAAT  
 TCACACCCACGCCGGCATTTCAGCCCTGCAGTACCTGGAGTCCGTGGATGAAGGAGGGGTGGCATGGCA  
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 AGTTCACCCGAAGCTTGCCATGCCAGACACTTCTGAGGACATCCCCCTCCGCCACAGTCTGTGCCCC  
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 GGGTTTGGTGATGAGGATGAAACGGAACAGCCGCTATTGCCTACCCTGGAGCAGCGCCAGGGAGCTGG  
 AGAACCCTTCTAGGTGGTGGTGGGCTGGTCTCAGGGGGAGGCTGGGGGACCCTGAGTTCACATC  
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 ACCGAGCCATGCAGGAGTCCCAGCAAGGACACAAGGGGGAGGCCCAAGGCCGACCTTAAACAAGCCTCT  
 CTACATCGATACCAAAATGCGGCCAGTGTGGAGTCCGGCTTCCACCGTCAACCAGACAGAACCAGG  
 GGTCCCCTGCGAAGGCAGGAGACAGAGAACAAGTATGAGACGGACCTGAGCAAGGACCGGAGGGTGAAG  
 ACAAGAAGAACATGCTGATCAACATCGTGGACTGCCCAGCAGAAGTCAAGCCGGCTACTGATGGTGCA  
 CACAGTGGACATTTCCCGTGGCGGGGCCACCCCTGGAGGAAGAGGAGGACAGAGAGGATGGGGATACAAAG  
 CCAGACCACTCACCTCCACAGTGCAGAAAGCGTTTCCAAAACCGAAGGTGCTTTACAGATCTCCGCTG  
 CCCCAGCCCGCCGCTGCGCCCGCAGGACCATCGTGGCAGCGGGCTCCGTGGAAGAGGGCGTAATTCT  
 GCCATTCGCAATCCCCCTCCCCCTCTGGCGTCCGTGGACTTGGATGAGGACTTTCTTTTACAGAACA  
 TTGCCTCCTCCCCTGGAATTCGCAATAGTTTGTATATCCCCGACGACCGGGCAGCTTCAGTTCGGCTC  
 TGGCTGACCTGGTCAAGCAGAAGAAAAGTACACCCCTCAGCCCTTCTGTTGAACTCCAGCCAACCAGC  
 CAACTCTACAGACAGTAAGAAGCCAGCCGCATCTCAAACGTCTGCCCTCCTATTCTGCCACCCCC  
 GAAAGCTTTGACGCGGTCAACGACTCGGGGATCGAGGAGGTGGACAGCCGGAGTAGCAGCGACCACCACC  
 TGGAGACAACCAGCACCATCTCCACAGTGTCCAGCATCTCCACGCTGTCTTACAGAGGGCGGGGAGAGCAT  
 GGATACTTGACAGTCTATGCAGACGGGAAGCCTTTGTGGTTGACAAGCCCCAGTACCTCAAAGCCA  
 AAAATGAAGCCCATCGTTACAAAAGCAACGCACCTTTACCAAGACAGCTCCCAGAAGAGGACACAGATG  
 GCTTTGTGATCCCCCACCTGCACCCCGCCCGCCCGCCGCGCAGTCCAGGCCGGTGGCGAAGGTGAT  
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 GCAATGTCAATTAGTGAGTTAACTCCATTCTGCAGCAGATGAACAGGGGAAATCGGTCAAGCCTGGGG  
 AAGGGCTGGAGCTGCCCGTGGGAGCAAGTACGCTAACCTCGCTCAAAGAAGCCCGAGGTGATGAGCAC  
 TGTCTCAGGTACACGGAGCACGAGGTACCTTACTGTCCGCCCGGAACCTCCAGCCCATCACCCCTA  
 CAGAGCCGGCCCCCTGACTATGAAAGCAGGACCTCAGGACCGAGACGTGCCCCAAGCCCTGTGGTTTCG  
 CAACGGAATTGAGCAAAGAGATTCTGCCACCCCTCCGCTGTGCTGCAGCAGCCTCCTCCCTCCCCACACT

CTCAGATGTCTTTAGCCTTCCAAGCCAGTCCCCTGCAGGGGACCTCTTTGGCTTGAACCCAGCAGGACGC  
AGCAGGTCACCATCTCCTTCAATATTGCAACAGCCAATCTCAAATAAGCCTTTTACAACCTAAGCCTGTCC  
ACCTGTGGACGAAACCAGATGTGGCAGACTGGCTGGAAAGTCTGAACTTGGGTGAACACAAGGAGACGTT  
CATGGACAATGAGATTGACGGCAGCCATCTGCCAAACCTCCAGAAGGAAGACTTGATAGATCTTGGGGTG  
ACTCGAGTTGGGCACAGGATGAACATAGAAAGGGCTTTGAAACAGCTGCTGGACAGATAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_201350
<b>Insert Size:</b>	5520 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_201350.1</a></u> , <u><a href="#">NP_958738.1</a></u>
<b>RefSeq Size:</b>	5625 bp
<b>RefSeq ORF:</b>	5520 bp
<b>Locus ID:</b>	171093
<b>UniProt ID:</b>	<u><a href="#">Q9QX74</a></u>
<b>Cytogenetics:</b>	1q42
<b>Gene Summary:</b>	binds to cortactin and alpha-latrotoxin receptor and is involved in the structural and functional organization of the post synaptic density [RGD, Feb 2006]