

Product datasheet for **RN200192**

Shank2 (NM_133441) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Shank2 (NM_133441) 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: >RN200192 representing NM_133441
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAAGTCTTTGTTAAATGCCTTACCAAGAAGGAAGTGCCTTCGAGAGGCCCCAGCTTATCCAACC
GCAGGCGGGCCCGCCCAACACATTGGCTGCCCCAGAGTTCTTCTGCGTTCCAATAGCGACAACAACCT
CAATGCCGGTGGCCTGAATGGGCTGTCTGCTCTGCAGCCACCTCCACCGAAGCCTCTCACCCAGCTG
CTGCAGCAGACCCAGCAAACCTGATGGAGCCACAAAGAGCCTTGAAGCTACGCCCTGGGCCCGCA
GCCGCTCTCCCTCACTCAACAGGCTGGGTGGCGCTGGTGAAGGATGGCAAGAGGCCACAGCCGCCACATTG
GCATGTGGGGTCGCCCTCACTCCTGGTCCAACAAGGACTCCCTCTCGACCTTTGAGTACCCAGGGCCC
CGGAGGAAGCTGTATAGTGGCGTGCCTGGGAGACTCTTCGTCGCCATCAAGCCATACCAACCCCAAGTCG
ACGGCGAGATCCCCCTCACCGAGGCGACAGGGTCAAAGTTCTGAGCATCGGCGAGGGCGGCTTCTGGGA
AGGCAGCGCCCGTGGCCACATCGGGTGGTCCCAGCTGAGTGTGTGGAGGAGGTACAATGTAAGCCCCGG
GACAGCCAAGCAGAAACCCGTGCGGACCGCAGCAAGAAGCTCTTCGGCATTACACAGTGGGCTCCTATG
ACAGCTTTGATGCTGCCAGTACTGCATTATTGAGGACAAGACGGTGGTCTGCAGAAGAAGACAACGA
GGGCTTTGGATTTGTGCTCCGAGGGGCAAAAGCTGATACCCCATTTGAGGAATTCACACCCACGCCGGCA
TTTCCAGCCCTGCAGTACCTGGAGTCCGTGGATGAAGGAGGGTGGCATGGCAAGCCGGACTAAGGACCG
GGGACTTCTTGATTGAGGTTAACAATGAAAATGTCGTCAAGGTGGGCCACAGGCAGGTGGTGAACATGAT
CCGCCAGGGAGGAATCACCTCGTCTTAAGGTCGTACGGTGACCAGGAATCTAGACCTGATGATACA
GCCAGAAAGAAAGCTCCCCACCTCAAAGCGGGCTCCGACCACGGCCCTCACCTGCGTTCGAAGTCCA
TGACAGCGGAATTGGAGGAACCTGGATAAAGCCTCAGTCCGGAAGAAGAAGGATAAACCGGAAGAGAT
AGTCCCAGCCTCAAGCCCTCCAGGACTGCAGAGAACGTGGCCATAGAATCCAGGGTGGCAACCATCAAG
CAGCGGCCCAAGCCGGTGTCTTCCAGCTGCCTCTGATGTGAACCTCGTGTACGAGCGCAAGGGATTG
CTGTAATGACGCCACGGTCCCTGGGAGCCGAAAGGCCATTTCTGGGCTCCCTCGAGGTACGATGCG
AAGGCAGAAATCGATAGACAGCAGAATCTTTCTATCAGGGATAACAGAGGAAGAGCGGCAGTTTCTGGCT
CCCCAATGCTGAAGTTCACCCGAAGCTTGCCATGCCAGACACTTCTGAGGACATCCCCCTCCGCCAC



AGTCTGTGCCCCCTCTCCCCCTCCACCTTCCCCACCACATACAAGTGTCCCAGGTCCCCGACTCCAAG
 AGTCTATGGGACAATTAAGCCTGCGTTCAACCAGAACCCCGTCGCCAAGGTGCCCCAGCCACCAGGTCT
 GACTGTGGCCACCATGATGCGGGAAAAGGGATGTTCTACAGGAGAGAGCTGGACCGCTTTTCCCTGG
 ACTCAGAAGACGTCTACAGCCGACGCCCGCCCCACAGGCTGCCTTCCGCACCAAGCGGGGACAGATGCC
 TGAGAACCCGTAAGCAGTCCAACGTGGAGGACAGCCCTGAGAAGACGTGCTCCATCCCCATCC
 CAACCATCATAGTCAAGGAACCCCTCCACCAGCAGCAGCGGCAAGAGCAGCCAGGGGAGCAGCATGGAGAT
 CGACCCCGAGCCACTGAGCCCGGCCAGCTGCGGCCAGATGACAGCCTCACCGTACAGCAGCCCTTCGCG
 GCAGCCATCGCTGGGGCGTGCCTGACCGGGAGAAGCGTCTGGAAGCCAGGAGGAATTCCCCGGCCTTCC
 TCTCCACCAGCTGGGAGATGAGGACGTGGGTCTGGGGCCTCCTGCTCCCCGGATGCAGCCCTCAAAGT
 TCCCGAGGAGGTGGTTTGGTATGAGGATGAAACGGAACAGCCGCTATTGCCTACCCCTGGAGCAGCG
 CCCAGGGAGCTGGAGAACCATTCTAGGTGGTGGTGGGCTGGTCTCAGGGGGAGGCTGGGGACCCC
 TGAGTTCCACATCAAAGCCAAGGGCCTGAAAGTGGCCAGCAGCCGCCCTCAAGAGCAGCAGCCAGC
 CAGCCCTGAGAATTACGTGCACCCTCACGGGGCGGCTGCTCGACCCAGCTCCCCGCTGGCCCTGGCA
 CTGTCCGCCAGGGACCGACCCATGCAGGAGTCCCAGCAAGGACACAAGGGGGAGGCCCCCAAGGCCGACC
 TTAACAAGCCTCTACATCGATACAAAATGCGGCCAGTGTGGAGTCCGGCTTTCCACCAGGTACCAG
 ACAGAACCAGGGGTCCCTGCGAAGGCAGGAGACAGAGAACAAGTATGAGACGGACCTGAGCAAGGAC
 CGGAGGGCTGACGACAAGAACAATGCTGATCAACATCGTGGACTGCCAGCAGAAGTACAGCCGGCC
 TACTGATGGTGCACACAGTGGACATTCCCGTGGCGGGCCACCCCTGGAGGAAGAGGAGGACAGAGAGGA
 TGGGGATACAAAGCCAGACCACTCACCTCCACAGTGCAGAAAGCGTTCCTCAAACCGAAGGTGCTTTA
 CAGATCTCCGCTGCCCGGAGCCCGCGCTGCGCCCGCAGGACCATCGTGGCAGCGGGCTCCGTGGAAG
 AGGCGGTAATTCTGCCATTCCGCATCCCCCTCCCCCTCTGGCGTCCGTGGACTTGGATGAGGACTTCT
 TTTCACAGAACCATTGCCTCCTCCCTGGAATTCGCAATAGTTTTGATATCCCCGACGACCCGGGACT
 TCAGTTCGCGCTCTGGCTGACCTGGTCAAGCAGAAGAAAAGTACACCCCTCAGCCCTTCGTTGAACT
 CCAGCCAACCAGCCAACCTACAGACAGTAAGAAGCCAGCCGGCATCTAAACTGTCTGCCTCCTCATT
 CCTGCCACCCCCGAAAGCTTTGACCGGTACCGACTCGGGGATCGAGGAGGTGGACAGCCGGAGTAGC
 AGCGACCACCCTGGAGACAACCAGCACCATCTCCACAGTGTCCAGCATCTCCACGCTGTCTTCAGAGG
 GCGGGGAGAGCATGGATACTTGACAGTCTATGCAGACGGGAAGCCTTTGTGGTTGACAAGCCCCAGT
 ACCTCAAAGCCAAAAATGAAGCCATCGTTACAAAAGCAACGCACTTTACCAAGACACGCTCCCAGAA
 GAGGACACAGATGGCTTTGTGATCCCCCACCCTGCACCCCGCCCCGCGCCGAGTGCCAGGCCGGTG
 TGCGGAAGGTATCCAGCCAAGGACCTCAAGTTGTGGGTGATGTTACAGAGGTCAAAGCCCAATTCT
 CTAGGCCCAAAGGCAAATGTCATTAGTGAGTTAAACTCCATTCTGCAGCAGATGAACAGGGGAAATCG
 GTCAAGCCTGGGAAGGGCTGGAGCTGCCCGTGGGAGCCAAGTCAGTAACCTCGCTCAAAGAAGCCCGG
 AGGTATGAGCACTGTCTCAGGTACACGGAGCAGCAGGTCACCTTCACTGTCCGCCCGGAACCTCCCA
 GCCCATACCCTACAGAGCCGGCCCCCTGACTATGAAAGCAGGACCTCAGGACCGAGACGTGCCCAAGC
 CCTGTGGTTTCGCCAACGGAATTGAGCAAAGAGATTCTGCCACCCCTCCGTCTGCTGCAGCAGCCTCTC
 CCTCCCCACACTCTCAGATGTCTTTAGCCTTCCAAGCCAGTCCCTGCAGGGGACCTCTTTGGCTTGAA
 CCAAGCCTGTCCACCTGTGGACGAAACCAGATGTGGCAGACTGGCTGGAAAGTCTGAACCTGGGTGAAC
 ACAAGGAGACGTTTATGACAATGAGATTGACGGCAGCCATCTGCCAAACCTCCAGAAGGAAGACTTGAT
 AGATCTTGGGGTACTCGAGTTGGGCACAGGATGAACATAGAAAGGGCTTTGAAACAGCTGCTGGACAGA
 TAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_133441
Insert Size: 4413 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_133441.1</u> , <u>NP_597685.1</u>
RefSeq Size:	8182 bp
RefSeq ORF:	4413 bp
Locus ID:	171093
UniProt ID:	<u>Q9QX74</u>
Cytogenetics:	1q42
Gene Summary:	binds to cortactin and alpha-latrotoxin receptor and is involved in the structural and functional organization of the post synaptic density [RGD, Feb 2006]