

Product datasheet for **RN200193**

Shank2 (NM_001004133) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Shank2 (NM_001004133) 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:	>RN200193 representing NM_001004133 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGATGAGCGTCCCCGGCGGTGGAGCAGCCACCGTGATGATGACCGGTTACAATAATGGTCGCTATCCCC
GGAATTCTCTACAGTACTGCATTATTGAGGACAAGACGGTGGTCTGCAGAAGAAAGACAACGAGGG
CTTTGGATTTGTGCTCCGAGGGGCAAAGCTGATACCCCAATTGAGGAATTCACACCCACGCCGGCATT
CCAGCCCTGCAGTACCTGGAGTCCGTGGATGAAGGAGGGGTGGCATGGCAAGCCGGACTAAGGACCGGG
ACTTCTTGATTGAGGTTAACAATGAAAATGTCGTCAAGGTGGGCCACAGGCAGGTGGTGAACATGATCCG
CCAGGGAGGGAATCACCTCGTCCTTAAGGTCGTACGGTGACCAGGAATCTAGACCCTGATGATACAGCC
AGAAAGAAAGCTCCCCACCTCCAAAGCGGGCTCCGACCACGGCCCTCACCGTGCCTTCCAAGTCCATGA
CAGCGAATTGGAGAACTCGTGGATAAAGATAAACCGGAAGAGATAGTCCAGCCTCCAAGCCCTCCAG
GACTGCAGAGAACGTGGCCATAGAATCCAGGGTGGCAACCATCAAGCAGCGGCCACAAGCCGGTGCTTT
CCAGCTGCCTCTGATGTGAACCTCGTGTACGAGCGCCAAGGATTGCTGTAATGACGCCACCGTCCCTG
GGAGCCCGAAAGGCCATTCTGGGCCTCCCTCGAGGTACGATGCGAAGGCAGAAAATCGATAGACAGCAG
AATCTTTCTATCAGGGATAACAGAGGAAGAGCGGCAAGTTCTGGCTCCCAATGCTGAAGTTCACCCGA
AGCTTGCCATGCCAGACACTTCTGAGGACATCCCCCTCCGCCACAGTCTGTGCCCCCTCTCCCCCTC
CACCTTCCCCACCACATAACAATGTCCAGGTCCCCGACTCCAAGAGTCTATGGGACAATTAAGCTGC
GTTCAACCAGAACCCGTCGCCAAGGTGCCCCAGCCACCGGTCTGACTGTGGCCACCATGATGCGG
GAAAAGGGGATGTTCTACAGGAGAGAGCTGGACCCTTTCCCTGGACTCAGAAGACGTCTACAGCCGA
GCCCGCCCCACAGGCTGCCTCCGCACCAAGCGGGACAGATGCCTGAGAACCCGTAAGGAGGTGGG
AAAGATAGCCAGCAAGGCCGTCTATGTCCCTGCCAAGCCAGCCAGCGGGAAGGGCATGCTGGTAAAGCAG
TCCAACGTGGAGGACAGCCCTGAGAAGACGTGCTCCATCCCCATCCAACCATCATAGTCAAGGAACCT
CCACCAGCAGCAGCGGCAAGAGCAGCCAGGGGAGCAGCATGGAGATCGACCCCAAGGCCACTGAGCCCGG
CCAGCTGCGGCCAGATGACAGCCTCACCGTCCAGAGCCCTTTCGCGGCAGCCATCGCTGGGGCCGTGCGT
GACCGGGAGAAGCGTCTGGAAGCCAGGAGGAATCCCCGGCTTCTCTCCACCGACCTGGGAGATGAGG



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ACGTGGGTCTGGGGCCTCCTGCTCCCCGGATGCAGCCCTCCAAGTTTCCCGAGGAGGGTGGGTTTGGTGA
 TGAGGATGAAACGGAACAGCCGCTATTGCCTACCCTGGAGCAGCGCCAGGGAGCTGGAGAACCACTTC
 CTAGGTGGTGGTGAAGCTGGTGCCTAGGGGGAGGCTGGGGGACCCTGAGTTCCACATCCAAAGCCAAGG
 GGCCTGAAAGTGGCCAGCAGCCGCCCTCAAGAGCAGCAGCCAGCCAGCCCTGAGAATTACGTGCACCC
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 CAGGAGTCCCAGCAAGGACACAAGGGGGAGGCCCCCAAGGCCACCTTAACAAGCCTCTTTACATCGATA
 CCAAAATGCGGCCAGTGTGGAGTCCGGCTTTCCACCGTCAACCAGACAGAACCAGGGGTCCCCTGCG
 AAGGCAGGAGACAGAGAACAAGTATGAGACGGACCTGAGCAAGGACCCGGAGGGCTGACGACAAGAAGAAC
 ATGCTGATCAACATCGTGGACACTGCCAGCAGAAGTCAGCCGGCCTACTGATGGTGCACACAGTGGACA
 TTCCCGTGGCGGGCCACCCCTGGAGGAAGAGGAGGACAGAGAGGATGGGGATACAAAGCCAGACCACTC
 ACCCTCCACAGTGCCAGAAGGCGTTCCAAAACCGAAGGTGCTTTACAGATCTCCGCTGCCCGGAGCCC
 GCCGCTGCGCCCGCAGGACCATCGTGGCAGCGGGCTCCGTGGAAGAGGCGGTAATTCTGCCATTCCGCA
 TCCCCCTCCCCCTCTGGCGTCCGTGGACTTGGATGAGGACTTTCTTTTACAGAACCATTGCCTCTCC
 CCTGGAATTCCGCAATAGTTTTGATATCCCGACGACCGGGCAGCTTCAGTTCCCGCTCTGGCTGACCTG
 GTCAGCAGAAGAAAAGTGACACCCCTCAGCCCCCTCGTTGAACTCCAGCCAACCAGCCAACCTCTACAG
 ACAGTAAGAAGCCAGCCGCATCTCAAAGTGTCTGCCCTCCTCATTCTGCCACCCCCGAAAGCTTTGA
 CCGCGTCAACGACTCGGGGATCGAGGAGGTGGACAGCCGAGTAGCAGCGACCACCACCTGGAGACAACC
 AGCACCATCTCCACAGTGTCCAGCATCTCCACGCTGTCTTTCAGAGGGCGGGGAGAGCATGGATACTTGCA
 CAGTCTATGCAGACGGGCAAGCCTTTGTGGTTGACAAGCCCCAGTACCTCCAAAGCCAAAAATGAAGCC
 CATCGTTCAAAAAGCAACGCACCTTTACCAAGACACGCTCCAGAAAGAGGACACAGATGGCTTTGTGATC
 CCCCCACCTGCACCCCGCCCCCGCCGAGTGGCCAGCCGGTGTGGCGAAGGTATCCAGCCAAGGA
 CCTCCAAGTTGTGGGTGATGTTACAGAGGTCAAAGCCCAATTTCTCAGGCCCAAAGGCAATGTCAT
 TAGTGAATTAAGTCCATTCTGCAGCAGATGAACAGGGGAAATCGGTCAAGCCTGGGGAAGGGCTGGAG
 CTGCCCCTGGGAGCCAAGTCAAGTAACTCGCTCAAGAACCCGAGGTCATGAGCACTGTCTCAGGTA
 CACGGAGCAGCAGGTACCTTCACTGTCCGCCCGAACCTCCAGCCATCACCTACAGAGCCGGCC
 CCCTGACTATGAAAGCAGGACCTCAGGACCGAGACGTGCCCAAGCCCTGTGGTTTCCGCAACGGAATTG
 AGCAAAGAGATTCTGCCACCCCTCCGTCTGCTGCAGCAGCCTCTCCCTCCCCACACTCTCAGATGTCT
 TTAGCCTTCAAGCCAGTCCCCTGCAGGGGACCTCTTTGGCTTGAACCCAGCAGGACGCAGCAGGTACC
 ATCTCCTTCAATATTGCAACAGCCAATCTCAAATAAGCCTTTTACAATAAGCCTGTCCACCTGTGGACG
 AAACCAGATGTGCAGACTGGCTGAAAAGTCTGAACTTGGGTGAACACAAGGAGACGTTTCATGGACAATG
 AGATTGACGGCAGCCATCTGCCAAACCTCCAGAAGGAAGACTTGATAGATCTTGGGTGACTCGAGTTGG
 GCACAGGATGAACATAGAAAGGGCTTTGAAACAGCTGCTGGACAGATAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-MluI

ACCN:

NM_001004133

Insert Size:

3759 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_001004133.1](#), [NP_001004133.1](#)

RefSeq Size: 4636 bp

RefSeq ORF: 3759 bp

Locus ID: 171093

UniProt ID: [Q9QX74](#)

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]