

Product datasheet for **RC227302**

NSP3 (SH2D3C) (NM_001142531) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | NSP3 (SH2D3C) (NM_001142531) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | NSP3 |
| Synonyms: | CHAT; NSP3; PRO34088; SHEP1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>RC227302 representing NM_001142531
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGCGGGCAGCGTACCATGACCGATGGGCTCACTGCTGACAAGGTCACCCGACGGATGGCTGCC
 CCACCAGTACGTGCTGCCCCGCCCTCGGGACTCCATCCGCAGCTGTGCCCTCAGCATGGACCAGATCCC
 AGACCTGCACTACCCATGTCGCCCATCTCCGAGAGCCCTAGCTCCCCTGCCTACAGCACTGTAACCCGT
 GTCATGCCGCCCTGCAGCCCTTCTGCCACAGCATTGCCTGCCTCCCCTGTCGCCCGCCGTTCCAGTG
 AGCCCCAGCTGTGTCGGGAAGTCCCCAAAGACCCATGGGGAGTCAGACAAGGGCCCCACACCAGCCC
 CTTCCACACCCCTGGCAAGGCCTCCCCGTACCATCACTCAGCAGCTACAGTGACCCGGACTCTGGCCAC
 TACTGCCAGCTCCAGCCTCCCGTGCCTGGCAGCCGAGAGTGGGCAGCGACTGAGACCTCCAGCCAGCAGG
 CCAGGAGCTATGGGGAGAGGCTAAAGGAACTGTCAGAAAATGGGGCCCCGAAGGGGACTGGGGCAAGAC
 CTTACAGTCCCCATCGTGAAGTCACTTCTTCCCTCAACCCGGCCACCTCCAGTCACTACTGATCCCC
 AGGGATAACCCGGCACTGGAGGTGGGCCTTCTGCGCAAGGTCAAGGAGCTGCTGGCAGAAGTGGATGCC
 GGACGCTGGCCCGCATGTCACCAAGGTGGACTGCCTGGTTGCTAGGATACTGGGCGTTACCAAGGAGAT
 GCAGACCCATATGGGAGTCCGCTGGGGCATGGAAGTGTCAACCCTCCCCATGGCCGGCAGCTACGCCTA
 GACCTGCTGAAAAGGTTCCACACCATGTCCATCATGCTGGCCGTGGACATCCTGGGCTGCACCGGCTCTG
 CGGAGGAGCGGGCAGCGCTGCTGCAACAAGACCATTCAGCTGGCGGCCGAGCTGCGGGGACTATGGGCA
 CATGTTACAGTTCGCGCGGTGATGGGTGCCCTGGACATGGCCAGATTTCTCGGCTGGAGCAGACATGG
 GTGACCTGCGGCAGCGACACACAGAGGGTGCCATCCTGTACGAGAAGAAGCTCAAGCCTTTTCTCAAGA
 GCCTCAACGAGGGCAAAGAAGGCCCGCCGCTGAGCAACACCAGTTCCTCATGTGCTGCCCTCATCAC
 CCTGCTGGAGTGTGACTCGGCCCCACCAGAGGGCCCTGAGCCCTGGGGCAGCACGGAGCACGGCGTGGAG
 GTGGTGTGGCTCACCTGGAGGCCGCCGCACAGTGGCACACCACGGAGGCTGTACCACACCAATGCTG
 AAGTCAAGCTGCAGGGGTTCCAGGCCCGCCGGAGCTCCTGGAGGTGTTACGACCGGAGTCCAGATGCG
 CCTTCTCTGGGGCAGTCAAGGTGCCAGCAGCAGCCAGGCCGGCGCTATGAGAAGTTCGACAAGTCTCT
 ACTGCCCTGTCCACAAGCTGGAACCTGCTGTCCGCTCCAGCGAGCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC227302 representing NM_001142531
 Red=Cloning site Green=Tags(s)

MKRRSVTMDGLTADKVTRSDGCPSTSLPRPRDSIRSCALSMQIPDLHSPMSPISESPSSPAYSTVTR
 VHAAPAASATALPASPVARRSSEPLCPGSAPKTHGESDKGPHTSPSHLTKASPSPSLSSYSDPDSGH
 YCQLQPPVRSREWAATETSSQARSYGERLKELENGAPEGDWGTFTVPIVEVTSSFNPFQSLIP
 RDNRPLEVGLLRKVKELLA EVDARTLARHVTKVDCLVARILGVTKEMQTLMGVRWGMELLTLPHGRLRL
 DLLERFHTMSIMLAVDILGCTGSAEERAALLHKTIQLAELRGTGMNMFSAAVMGALDMAQISRLQETW
 VTLRQRHTEGAILYEKCLKPFLKSLNEGKEGPPLSNTTFPHVPLITLLECD SAPPEGPPEPWGSTEHGVE
 VVLAHLEAARTVAHHGGLYHTNAEVKLQGFQARPELLEVFSTEFQMRLLWGSQGASSSQARRYEKFDKVL
 TALSHKLEPAVRSEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001142531

ORF Size: 1518 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001142531.1](#), [NP_001136003.1](#)

RefSeq Size: 2557 bp

RefSeq ORF: 1521 bp

Locus ID: 10044

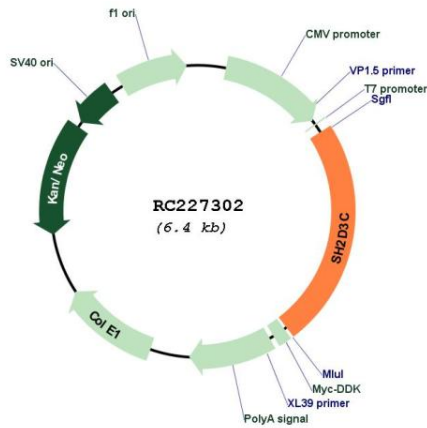
Cytogenetics: 9q34.11

Protein Families: Druggable Genome

MW: 55.2 kDa

Gene Summary: This gene encodes an adaptor protein and member of a cytoplasmic protein family involved in cell migration. The encoded protein contains a putative Src homology 2 (SH2) domain and guanine nucleotide exchange factor-like domain which allows this signaling protein to form a complex with scaffolding protein Crk-associated substrate. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2011]

Product images:



Circular map for RC227302