

Product datasheet for **RC227475**

NSP3 (SH2D3C) (NM_001142534) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | NSP3 (SH2D3C) (NM_001142534) 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:

>RC227475 representing NM_001142534
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACCGAGCGGTGCAGCCTGTGGAGTGCCTGTGCGCCGCCCTGCTGCTTCTACCGCGCTCCTTCG
 TGCAGTTCCTCAAGGAGAAGTACATCCTGGACTCATCGCCAGAGAACTCCACAAGGAATTGGAGGAGGA
 GCTCAAACCTCAGCAGCACGGATCTCCGAGCCTGCTGGTACCATGGCCGCATCCCCGAGAGGTCTCG
 GAGACCTTGGTACAACGCAACGGCGACTTCCTCATCCGGGACTCACTCACCAGCCTGGGCGACTATGTGC
 TCACGTGCCGCTGGCGCAACCAGGCCTTGCACTCAAGATCAACAAGGTGGTGGTGAAGGAGGCGAGAG
 CTACACACACATCCAGTACCTGTTTGGAGCAGGAGACTTTGACCACGTGCCCGCCCTCGTGCCTATCAT
 GTGGGCAGCCGCAAGGCTGTGTGAGAGCAGAGTGGTGCATCATCTACTGCCCGGTGAACCCGACCTTCC
 CACTGCGTACCTCGAGGCCAGCTATGGCCTGGGACAGGGGAGTAGCAAGCCTGTAGCCCCGTAGCCCC
 CTCAGGCCCAAGGGCAGCCACATGAAGCGGCGCAGCGTCACCATGACCGATGGGCTCAGTGTGACAAG
 GTCACCCGCAGCGATGGCTGCCCCACCAGTACGTGCTGCCCGCCCTCGGGACTCCATCCGCAGCTGTG
 CCCTCAGCATGGACCAGATCCCAGACCTGCACTCACCCATGTCGCCCATCTCCGAGAGCCCTAGCTCCCC
 TGCCACAGCACTGTAACCCGTGTCCATGCCGCCCTGCAGCCCTTCTGCCACAGCATTGCCTGCCTCC
 CCTGTGCGCCCGCTTCCAGTGAGCCCCAGCTGTGTCCCGAAGTGCCCCAAAGACCCATGGGGAGTCAG
 ACAAGGGCCCCACACCAGCCCCCCCACACCTTGGCAAGGCCCTCCCGTCACCATCACTCAGCAGCTA
 CAGTGACCCGACTCTGGCCACTACTGCCAGCTCCAGCCTCCCGTGCCTGGCAGCCGAGAGTGGGACGG
 ACTGAGACCTCCAGCCAGCAGCCAGGAGCTATGGGAGAGGCTAAAGGAACTGTAGAAAATGGGGCCC
 CTGAAGGGGACTGGGGCAAGACCTTACAGTCCCACATCGTGGAAGTCATTCTTCTTCAACCCGGCCAC
 CTCCAGTCACTACTGATCCCCAGGGATAACCGGCCACTGGAGGTGGGCTTCTGCGCAAGGTCAAGGAG
 CTGCTGGCAGAAGTGGATGCCCGGACGCTGGCCCGCATGTCACCAAGGTGGACTGCCTGGTTGCTAGGA
 TACTGGGCGTTACCAAGGAGATGCAGACCCTAATGGGAGTCCGCTGGGGCATGGAAGTGCCTCACCCTCC
 CCATGGCCGGCAGCTACGCCTAGACCTGCTGGAAGGTTCCACACCATGTCCATCATGCTGGCCGTGGAC
 ATCCTGGGCTGCACCGGCTCTGCGGAGGAGCGGGCAGCGCTGCTGCACAAGACCATTAGCTGGCGGCCG
 AGCTGCGGGGACTATGGGCAACATGTTACGCTTCGCGCGGTCATGGGTGCCCTGGACATGGCCAGAT
 TTCTCGGCTGGAGCAGACATGGGTGACCCTGCGGCAGCGACACACAGAGGGTCCATCCTGTACGAGAAG
 AAGCTCAAGCCTTTTCTCAAGAGCCTCAACGAGGGCAAAGAAGGCCCGCCGCTGAGCAACACCACGTTTC
 CTATGTGCTGCCCTCATCACCTGCTGGAGTGTGACTCGGCCCCACCAGAGGGCCCTGAGCCCTGGGG
 CAGCACGGAGCACGGCGTGGAGGTGGTGTGGCTCACCTGGAGGCCGCCGCACAGTGGCACACCACGGA
 GGCTGTACCACACCAATGCTGAAGTCAAGTGCAGGGTTCCAGGCCCGGCCGAGCTCCTGGAGGTGT
 TCAGCACGGAGTTCAGATGCGCCTTCTCTGGGCGAGTCAAGGTGCCAGCAGCAGCCAGGCCCGCGCTA
 TGAGAAGTTCGACAAGGTCTCACTGCCCTGTCCACAAGCTGGAACCTGCTGTCCGCTCCAGCGAGCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC227475 representing NM_001142534
Red=Cloning site Green=Tags(s)

MTERCSLWSALSAACCFYRGSFVQFSKEKYILDSSPEKLHKELEELKLSSTDLRSHAWYHGRIPREVS
 ETLVQRNGDFLIRDLSLGLDYVLTCTWRNQALHFKINKVVVKAGESYTHIQYLFEQESFDHVPALVRYH
 VGSRKAVSEQSGAIIYCPVNRTFPLRYLEASYGLGQSSKSPASVSPSGPKGSHMKRRSVTMTDGLTADK
 VTRSDGCPSTSLPRPRDSIRSCALSMQIPDLHSPMSPISESPSSPAYSTVTRVHAAPAAPSATALPAS
 PVARRSSEPQLCPGSAPKTHGESDKGPHTSPSHTLGKASPSPLSSYSDPDSGHYQQLQPPVRSREWAA
 TETSSQARSYGERLKELSENGAPEGDWGTFTVPIVEVTSSFNPATFQSLIPDRNRPLEVGLLRKVKEL
 LLAEVDARTLARHVTKVDCLVARILGVTKEMQTLMGVVRWGMELLTLPHGRQLRLDLLERFHTMSIMLAVD
 ILGCTGSAEERAALLHKTIQLAELRGTMGNMFSFAAVMGALDMAQISRLEQTWVTLRQRHTEGAILYEK
 KLPFLKSLNEGKEGPPLSNTTFPHVPLITLLECD SAPPEGPEPWGSTEHGVEVLAHLEAARTVAHHG
 GLYHTNAEVKLQGFQARPELLEVFSTEFQMRLWGSQGASSQARRYEKFDKVL TALS HKLEPAVRSEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001142534

ORF Size: 2100 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_001142534.1](#), [NP_001136006.1](#)

RefSeq ORF: 2103 bp

Locus ID: 10044

UniProt ID: [Q8N5H7](#)

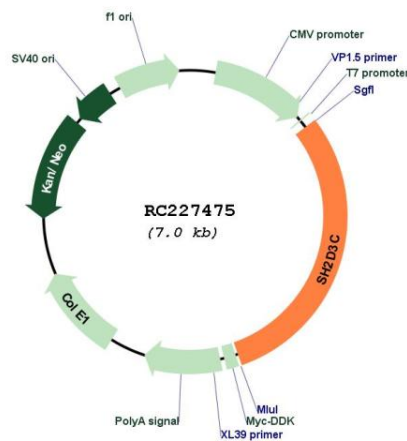
Cytogenetics: 9q34.11

Protein Families: Druggable Genome

MW: 76.9 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 RC227475