

## Product datasheet for **RC227370**

### **NSP3 (SH2D3C) (NM\_001142532) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NSP3 (SH2D3C) (NM_001142532) 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)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC227370 representing NM\_001142532  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAGCGGCGCAGCGTCAACCATGACCGATGGGCTCACTGCTGACAAGGTCACCCGACGGATGGCTGCC  
 CCACCAGTACGTGCTGCCCGCCCTCGGGACTCCATCCGCAGCTGTGCCCTCAGCATGGACCAGATCCC  
 AGACCTGCACTACCCATGTCGCCCATCTCCGAGAGCCCTAGCTCCCCTGCCTACAGCACTGTAACCCGT  
 GTCATGCCGCCCTGCAGCCCTTCTGCCACAGCATTGCCTGCCTCCCCTGTCGCCCGCCGTTCCAGTG  
 AGCCCCAGCTGTGTCGGGAAGTCCCCAAAGACCCATGGGGAGTCAGACAAGGGCCCCACACCAGCCC  
 CCCCCACCCCTGGCAAGGCCTCCCCGTACCATCACTCAGCAGCTACAGTGACCCGGACTCTGGCCAC  
 TACTGCCAGCTCCAGCCTCCCGTGCCTGGCAGCCGAGAGTGGGCAGCGACTGAGACCTCCAGCCAGCAGG  
 CCAGGAGCTATGGGGAGAGGCTAAAGAACTGTCAGAAAATGGGGCCCCGAAGGGGACTGGGGCAAGAC  
 CTTACAGTCCCCATCGTGAAGTCACTTCTTCCCTCAACCCGGCCACCTCCAGTCACTACTGATCCCC  
 AGGGATAACCCGGCACTGGAGGTGGGCCTTCTGCGCAAGGTCAAGGAGCTGCTGGCAGAAGTGGATGCC  
 GGACGCTGGCCCGCATGTCACCAAGGTGGACTGCCTGGTTGCTAGGATACTGGGCGTTACCAAGGAGAT  
 GCAGACCCATATGGGAGTCCGCTGGGGCATGGAAGTGTCAACCCTCCCCATGGCCGGCAGCTACGCCTA  
 GACCTGCTGAAAAGGTTCCACACCATGTCCATCATGCTGGCCGTGGACATCCTGGGCTGCACCGGCTCTG  
 CGGAGGAGCGGGCAGCGCTGCTGCAACAAGACCATTCAGCTGGCGGCCGAGCTGCGGGGACTATGGGCA  
 CATGTTACAGTTCGCGCGGTGATGGGTGCCCTGGACATGGCCAGATTTCTCGGCTGGAGCAGACATGG  
 GTGACCTGCGGCAGCAGACACAGAGGGTGCCATCCTGTACGAGAAGAAGCTCAAGCCTTTTCTCAAGA  
 GCCTCAACGAGGGCAAAGAAGGCCCGCCGCTGAGCAACACCAGTTCCTCATGTGCTGCCCTCATCAC  
 CCTGCTGGAGTGTGACTCGGCCCCACCAGAGGGCCCTGAGCCCTGGGGCAGCACGGAGCACGGCGTGGAG  
 GTGGTGTGGCTCACCTGGAGGCCGCCGCACAGTGGCACACCACGGAGGCCTGTACCACACCAATGCTG  
 AAGTCAAGCTGCAGGGGTTCCAGGCCCGCCGGAGCTCCTGGAGGTGTTACGACCGGAGTCCAGATGCG  
 CCTTCTCTGGGGCAGTCAAGGTGCCAGCAGCAGCCAGGCCGGCGCTATGAGAAGTTCGACAAGTCTCT  
 ACTGCCCTGTCCACAAGCTGGAACCTGCTGTCCGCTCCAGCGAGCTG

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:**

>RC227370 representing NM\_001142532  
 Red=Cloning site Green=Tags(s)

MKRRSVTMDGLTADKVTRSDGCPSTSLPRPRDSIRSCALSMQIPDLHSPMSPISESPSSPAYSTVTR  
 VHAAPAASATALPASPVARRSSEPLCPGSAPKTHGESDKGPHTSPSHLTKASPSPSLSSYSDPDSGH  
 YCQLQPPVRSREWAATETSSQARSYGERLKELENGAPEGDWGTFTVPIVEVTSSFNPAFTQSLIP  
 RDNRPLEVGLLRKVKELLA EVDARTLARHVTKVDCLVARILGVTKEMQTLMGVRWGMELLTLPHGRLRL  
 DLLERFHTMSIMLAVDILGCTGSAEERAALLHKTIQLAELRGTGMNMFSAAVMGALDMAQISRLEQW  
 VTLRQRHTEGAILYEKCLKPFLKSLNEGKEGPPLSNTTFPHVPLITLLECD SAPPEGPWPSTEHGVE  
 VVLAHLEAARTVAHHGGLYHTNAEVKLQGFQARPELLEVFSTEFQMRLLWGSQGASSSQARRYEKFDKVL  
 TALSHKLEPAVRSEL

**TRTRPLEQKLI SEEDLAANDILDYKDDDDKV**

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001142532

**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\\_001142532.1](#), [NP\\_001136004.1](#)

**RefSeq Size:** 2806 bp

**RefSeq ORF:** 1521 bp

**Locus ID:** 10044

**UniProt ID:** [Q8N5H7](#)

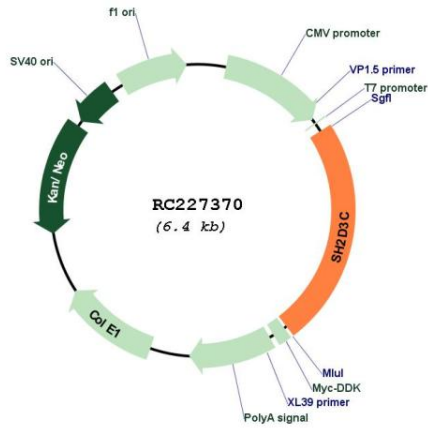
**Cytogenetics:** 9q34.11

**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 RC227370