

## Product datasheet for **RC206537**

### **NSP3 (SH2D3C) (NM\_005489) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NSP3 (SH2D3C) (NM_005489) 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:**

>RC206537 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGACTGTGTGGCCGAAGGTGCCCGCGCTGGGGTCCCAGGGGCTGCTGGAGAGCCAGAGGCTGGCA  
 GCGACTATGTGAAGTTCTCCAAGGAGAAGTACATCCTGGACTCATCGCCAGAGAACTCCACAAGGAATT  
 GGAGGAGGAGCTCAAACCTCAGCAGCAGGATCTCCGCAGCCATGCCTGGTACCATGGCCGCATCCCCGA  
 GAGGTCTCGGAGACCTTGGTACAACGCAACGGCGACTTCCTCATCCGGGACTCACTCACCAGCCTGGGCG  
 ACTATGTGCTCACGTGCCGCTGGCGCAACCAGGCCTTGCACTTCAAGATCAACAAGGTGGTGGTGAAGGC  
 AGGCGAGAGCTACACACACATCCAGTACCTGTTTGAGCAGGAGAGCTTTGACCACGTGCCCGCCCTCGT  
 CGTATCATGTGGCAGCCGCAAGGCTGTGTGAGCAGAGTGGTCCATCATCTACTGCCCGTGAACC  
 GCACCTTCCCACTGCGCTACCTCGAGGCCAGCTATGGCCTGGGACAGGGGAGTAGCAAGCCTGCTAGCCC  
 CGTCAGCCCTCAGGCCCAAGGGCAGCCACATGAAGCGGCGCAGCGTCACCATGACCGATGGGCTCACT  
 GCTGACAAGGTACCCCGCAGCGATGGCTGCCCCACCAGTACGTGCTGCCCGCCCTCGGGACTCCATCC  
 GCAGCTGTGCCCTCAGCATGGACCAGATCCCAGACCTGCACTCACCCATGTGCGCCATCTCCGAGAGCCC  
 TAGCTCCCCTGCCTACAGCACTGTAACCCGTGTCCATGCCGCCCTGCAGCCCCTTCTGCCACAGCATTG  
 CCTGCCTCCCCTGTGCGCCGCCGTTCCAGTGAGCCCCAGCTGTGTCCCGAAGTGCCCCAAAGACCCATG  
 GGGAGTCAGACAAGGGCCCCACACCAGCCCCTCCACACCCCTTGGCAAGGCCTCCCCGTACCATCACT  
 CAGCAGCTACAGTGACCCGGACTCTGGCCACTACTGCCAGCTCCAGCCTCCCGTGCCTGGCAGCCGAGAG  
 TGGGCAGCGACTGAGACCTCCAGCCAGCAGGCCAGGAGCTATGGGAGAGGGCTAAAGGAACTGTGAGAAA  
 ATGGGGCCCTGAAGGGGACTGGGGCAAGACCTCACAGTCCCCATCGTGAAGTCACTTCTTCTTCAA  
 CCCGGCCACCTTCCAGTCACTACTGATCCCCAGGGATAACCGGCCACTGGAGGTGGGCCTTCTGCGCAAG  
 GTCAAGGAGCTGCTGGCAGAAGTGGATGCCCGGACGCTGGCCCGCATGTACCAAGGTGGACTGCCTGG  
 TTGCTAGGATACTGGGCGTTACCAAGGAGATGCAGACCCTAATGGGAGTCCGCTGGGGCATGGAAGTGT  
 CACCCTCCCCATGGCCGGCAGCTACGCCTAGACCTGCTGGAAGGTTCCACACCATGTCCATCATGCTG  
 GCCGTGGACATCCTGGGCTGCACCGCTCTGCGGAGGAGCGGGCAGCGCTGCTGCACAAGACCATTGAGC  
 TGGCGGCCGAGCTGCGGGGACTATGGGCAACATGTTGAGCTTCGCGCGGTCATGGGTGCCCTGGACAT  
 GGCTCAGATTTCTCGGCTGGAGCAGACATGGGTGACCCTGCGGCAGCGACACACAGAGGGTGCATCCTG  
 TACGAGAAGAAGCTCAAGCCTTTTCTCAAGAGCCTCAACGAGGGCAAAGAAGGCCCGCCGCTGAGCAACA  
 CCACGTTTCTCATGTGCTGCCCTCATACCCTGCTGGAGTGTGACTCGGCCCCACCAGAGGGCCCTGA  
 GCCTGGGGCAGCACGGAGCACGGCGTGGAGGTGGTGGTGGCTCACCTGGAGGCCGCCGCACAGTGGCA  
 CACCACGGAGGCCTGTACCACACCAATGCTGAAGTCAAGTGCAGGGGTTCCAGGCCCGCCGGAGCTCC  
 TGGAGGTGTTGAGCAGGAGTCCAGATGCGCCTTCTCTGGGCGAGTCAAGGTGCCAGCAGCAGCCAGGC  
 CCGGCGCTATGAGAAGTTCGACAAGTCTCACTGCCCTGTCCCAAGTGAACCTGCTGTCCGCTCC  
 AGCGAGCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC206537 protein sequence  
Red=Cloning site Green=Tags(s)

MTAVGRRCPALGSRGAAGEPEAGSDYVKFSKEKYILDSSPEKLHKEEELKLSSTDLRSHAWYHGRIPR  
 EVSETLVQRNGDFLIRDSLTSGLDYVLTCRWRNQALHFKINKVVVKAGESYTHIQYLFEQESFDHVPALV  
 RYHVGSRKAVSEQSGAIIYCPVNRTPFLRYLEASYGLGQGSSKPA SPVSPSGPKGSHMKRRSVTMDGLT  
 ADKVTRSDGCPTSTSLPRPRDSIRSCALSMQIPDLHSPMSPISESPSSPAYSTVTRVHAAPAAPSATAL  
 PASPVARRSSEPLCPGSAPKTHGESDKGPHTSPSHTLGKASPPSLSSYSDPDSGHYCLQPPVRSRE  
 WAATETSSQQARSYGERLKELENGAPEGDWGTFTVPIVEVTSSFNPATFQSLLIPRDNRPLEVGLLRK  
 VKELLAEVDARTLARHVTKVDCLVARILGVTKEMQTLMGVRWGMELLTLPHGRQLRLDLLERFHTMSIML  
 AVDILGCTGSAEERAALLHKTIQLAAELRGTGMNMFSAAVMGALDMAQISRLEQTWVTLRQRHTEGAIL  
 YEKKLPKPLKSLNEGKEGPPLSNTTFPHVPLITLLECD SAPPEGPEPWGSTEHGVEVLAHLEAARTVA  
 HHGGLYHTNAEVKLQGFQARPELLEVFSTEFQMRLWGSQGASSQARRYEKFDKVLTA LSHKLEPAVRS  
 SEL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6327\\_d08.zip](https://cdn.origene.com/chromatograms/mk6327_d08.zip)

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_005489

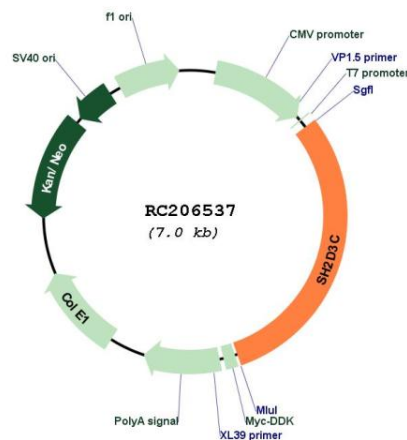
**ORF Size:** 2109 bp

**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](#)

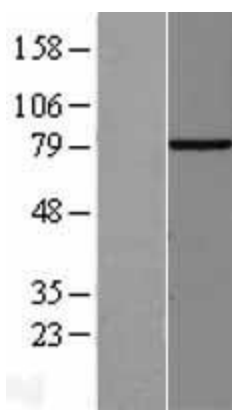
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_005489.4</a></u>
<b>RefSeq Size:</b>	2692 bp
<b>RefSeq ORF:</b>	2112 bp
<b>Locus ID:</b>	10044
<b>UniProt ID:</b>	<u><a href="#">Q8N5H7</a></u>
<b>Cytogenetics:</b>	9q34.11
<b>Domains:</b>	SH2, RasGEF
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	77.1 kDa
<b>Gene Summary:</b>	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]

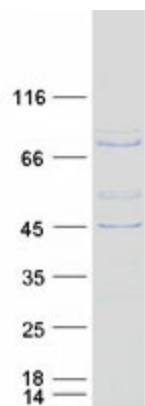
### Product images:



Circular map for RC206537



Western blot validation of overexpression lysate (Cat# [LY417274]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206537 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SH2D3C protein (Cat# [TP306537]). The protein was produced from HEK293T cells transfected with SH2D3C cDNA clone (Cat# RC206537) using MegaTran 2.0 (Cat# [TT210002]).