

Product datasheet for **RG227430**

NSP3 (SH2D3C) (NM_001142533) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NSP3 (SH2D3C) (NM_001142533) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NSP3
Synonyms:	CHAT; NSP3; PRO34088; SHEP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG227430 representing NM_001142533
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCGAGCGGTGCAGCCTGTGGAGTGCCTGTGCGCCGCCCTGCTGCTTCTACCGCGCTCCTTCG
 TGAGGTGCAGTTCTCCAAGGAGAAGTACATCCTGGACTCATCGCCAGAGAACTCCACAAGGAATTGGA
 GGAGGAGCTCAAACCTCAGCAGCACGGATCTCCGCAGCCATGCCTGGTACCATGGCCGCATCCCCGAGAG
 GTCTCGGAGACCTTGGTACAACGCAACGGCGACTTCTCATCCGGGACTCACTACCAGCCTGGCGGACT
 ATGTGCTCACGTGCCGTGGCGCAACAGGCCCTTGCACTTCAAGATCAACAAGGTGGTGGTGAAGGCAGG
 CGAGAGCTACACACACATCCAGTACCTGTTTGGCAGGAGAGCTTTGACCAGTGCCCGCCCTCGTGCGC
 TATCATGTGGGCAGCCGAAGGCTGTGTCAGAGCAGAGTGGTCCATCATCTACTGCCCGGTGAACCGCA
 CCTTCCCCTGCGCTACCTCGAGGCCAGCTATGGCCTGGGACAGGGGAGTAGCAAGCCTGCTAGCCCCGT
 CAGCCCCCTCAGGCCCAAGGGCAGCCACATGAAGCGGGCAGCGTCACCATGACCATGGGCTCACTGCT
 GACAAGGTCAACCGCAGCGATGGCTGCCCCACAGTACGTCGCTGCCCGCCCTCGGGACTCCATCCGCA
 GCTGTGCCCTCAGCATGGACCAGATCCCAGACCTGCACTCACCCATGTCGCCCATCTCCGAGAGCCCTAG
 CTCCCCTGCTACAGCACTGTAACCCGTGTCCATGCCGCCCTGCAGCCCTTCTGCCACAGCATTGCT
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 GGCCACCTTCCAGTCACTACTGATCCCCAGGGATAACCGGCCACTGGAGGTGGGCCTTCTGCGCAAGGTC
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 GAGAAGAAGCTCAAGCCTTTTCTCAAGAGCCTCAACGAGGGCAAAGAAGGCCCGCCGCTGAGCAACACCA
 CGTTTCTCATGTGCTGCCCTCATCACCTGCTGGAGTGTGACTCGGCCCCACCAGAGGGCCCTGAGCC
 CTGGGGCAGCACGGAGCACGGCTGGAGGTGGTGTGGCTCACCTGGAGGCCGCCGCACAGTGGACACAC
 CACGGAGGCCGTACCACACCAATGCTGAAGTCAAGCTGCAGGGGTTCCAGGCCCGCCGGAGCTCCTGG
 AGGTGTTACAGCACGGAGTTCAGATGCGCCTTCTCTGGGGCAGTCAAGGTGCCAGCAGCAGCCAGGCCCG
 GCGCTATGAGAAGTTCGACAAGGTCCTCACTGCCCTGTCCACAAGTGGAACTGCTGTCCGCTCCAGC
 GAGCTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG227430 representing NM_001142533
Red=Cloning site Green=Tags(s)

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MTERCSLWSALSAAACCFYRGSFVQVQFSKEKYILDSSPEKLHKELEELKLSSTDLRSHAWYHGRIPRE
VSETLVQRNGDFLIRDLSLTDYVLTTCRWRNQALHFKINKVVVKAGESYTHIQYLFEQESFDHVPALVR
YHVGSRKAVSEQGAIICYPNVRTFPLRYLEASYGLGQGSKSPASPVSPSPGPKGSHMKRRSVTMTDGLTA
DKVTRSDGCPSTSLRPRRDSIRSCALSMQIPDLHSPMSPISESPSSPAYSTVTRVHAAPAAPSATALP
ASPVARRSSEPQLCPGSAPKTHGESDKGPHTSPSHTLGKASPSPLSSYSDPDSGHYCQLQPPVRSREW
AATETSSQARSYGERLKELENGAPEGDWGTKFTVPIVEVTSSFNATFQSLIPRDNRPLEVGLLRKV
KELLA EVDARTLARHVTKVDCLVARILGVTKEMQTLMGVWRGMELLTLPHGRQLRLDLLERFHTMSIMLA
VDILGCTGSAEERAALLHKTIQLAAELRGTMGNMFSFAAVMGALDMAQISRLEQTWVTLRQRHTEGAILY
EKKLKPFLLKSLNEGKGPPLSNTTFPHVLPITLLECD SAPPEGPEPWGSTEHGVEVLAHLEAARTVAH
HGGLYHTNAEVKLQGFQARPELLEVFSTEFQMRLLWGSQ GASSSQARRYEKFDKVL TALS HKLEPAVRSS
EL
    
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001142533

ORF Size: 2106 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_001142533.1](#), [NP_001136005.1](#)

RefSeq Size: 2694 bp

RefSeq ORF: 2109 bp

Locus ID: 10044

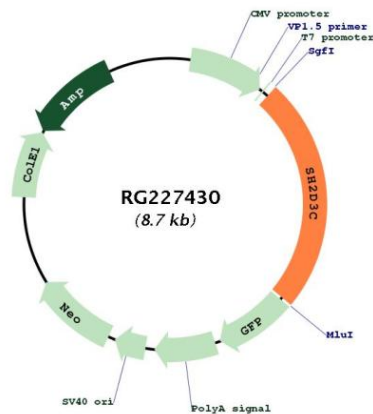
UniProt ID: [Q8N5H7](#)

Cytogenetics: 9q34.11

Protein Families: Druggable Genome

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 RG227430