

## Product datasheet for **RG222412**

### SH3D20 (ARHGAP27) (NM\_199282) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SH3D20 (ARHGAP27) (NM_199282) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SH3D20
Synonyms:	CAMGAP1; PP905; SH3D20; SH3P20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG222412 representing NM\_199282  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCAGCCGGCCTGAGCCCTGGCAGCCAGGGACCCGCGGCCCCCACTCCCAGACGGACTACCCCG  
 AGTCGCTGACCAGTTACCCCGAGGAGACTATTCTCCCGTGGGCTCTTTCCGGTGAGCCCGCCCTACCTC  
 TCCTTGACCACACCCCGGCTGGTCTTGTTCATGTCAGCCAGGACAAGCAGATGCTCTACACCAACCAC  
 TCACTCAGGAGCAGTGGGTGAGGCTGGAGGACCCACGGGAAGCCATACTTCTACAATCCAGAGGACT  
 CCTCTGTTTCGATGGGAGCTGCCAGGTCCTGTCCCTGCCCTCGAAGCATCCATAAATCCAGCCAGGA  
 TGGTGACACCCAGCCAGGCCAGCCCTCCAGAGGAGAAGGTCCAGCAGAGCTGGATGAGGTTGGGAGC  
 TGGGAGGAAGTCTCTCTGCCACAGCTGCTGTGAGGACCAAGACCTTGACAAGGCAGGGGTGCTCCATC  
 GCACCAAGACGGCAGACAAGGAAAGCGGCTCCGGAAGAAGCACTGGAGTGCCTCCTGGACTGTGCTGGA  
 GGGTGGCGTCTGACATTCTCAAGGACTCAAAGACCTCGGCTGCAGGCGCCTGAGGCAGCCTTCCAAG  
 TTTTCCACCCCTGAGTACACAGTGGAGCTGAGGGGGCCACTCTCTCCTGGGCCCCAAAGACAAAATCCA  
 GTAGGAAGAATGTGCTGGAGCTACGGAGCCGAGATGGCTCTGAGTACCTGATCCAGCAGCACTCGGAGGC  
 CATCATCAGCACCTGGCATAAAGCCATTGCTCAGGGCATCCAGGAGCTGTCCGCAGAGCTGCCCCAGAG  
 GAGAGCGAGAGCAGCAGAGTGGACTTCCGGTCGAGCGAGCGCTTGGGAAGCTGGCAGGAGAAAGAGGAGG  
 ACGCGCGACCGAATGCAGCCGCGCCCGCCTGGGCCCGTGGGCTGGAGAGCGACTTGAGCAAGGTCGG  
 GCACAAGTCCGCAAGTCTCCAGAGGCGGCCACACTGCAGTCGCTGCGGGAGAAGGGCTACATCAA  
 GACCAGGTGTTCCGGTCCGCGCTGGCCCGCTGTGTGAGCGCAGAGGAGCCGGTGCACGCTTCTGTC  
 AGCAGTGCATCCGCGCCGTCGAGGCCCGCGGCTGGACATCGACGGCTGTACCGCATCAGTGGAAACCT  
 GGCCACCATCCAGAAGCTACGCTATAAGGTGGACCACGATGAGCGCCTTGACCTGGATGACGGGCGCTGG  
 GAGGACGTCCACGTTATACCGGAGCCCTGAAGCTCTTCTTTCCGGAGCTGCCCGAGCCCTCTTCCCT  
 TCTCGCACTTCCGCCAGTTCATTGCGGCCATCAAGTTCAGGACCAGGCCGCGCAGCCGCTGTGTGCG  
 TGACTTGGTGGCTCGCTGCCCGCTCCCAACCACGACACTCTGCGGATGCTCTTCCAGCACCTCTGCCGG  
 GTGATCGAGCACGGCAGCAGAACCAGTGTCCGGTGCAGAGCGTGGCCATTGTGTTCCGGCCACGCTGC  
 TGGGCCCGAGGTGGAAGAGACCAGCATGCCATGACCATGGTGTCCAGAACCAGGTGGTGGAGCTCAT  
 CCTGCAGCAGTGCGGGACATCTTCCCGCCGAC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG222412 representing NM\_199282  
 Red=Cloning site Green=Tags(s)

MQPGLSPGSPGDRPPTPETDYPESLTSYPEEDYSPVGSFGEPEGPTSPLTPPGWSCHVSQDKQMLYTNH  
 FTQEQWVREDPHGKPYFYNPEDSSVRWELPQVPVPAPRSIHKSSQDGDTPAQASPPEEKVPAELDEVGS  
 WEEVSPATAAVRKTLDKAGVLHRTKTADKGKRLRKKHWSASWTVLEGGVLTFFKDSKTSAAAGLRQPSK  
 FSTPEYVELRGATLSWAPKDKSSRKNVLELRSRDGSEYLIQHDSEAIISTWHKAI AQGIQELSAELPPE  
 ESESSRVDFGSSERLGSWQEKEEDARPNAAAPALGPVGLSDLSKVRHKLKFLQRRPTLQSLREKGYIK  
 DQVFGCALAALCERERSRVPRFVQQCIRAVEARGLDIDGLYRISGNLATIQKLYKVDHDERLDDGRW  
 EDVHVITGALKLFFRELPEPLFPFSHFQFIAAIKLDQARRSRCVRDLVRSPLPAPNHDTLRMLFQHLCR  
 VIEHGEQNRMSVQSVAVIFGPTLLRPEVEETSMPTMVFQNVVELILQQCADIFPPH

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_199282

**ORF Size:** 1644 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\\_199282.3](#)

**RefSeq Size:** 3628 bp

**RefSeq ORF:** 1647 bp

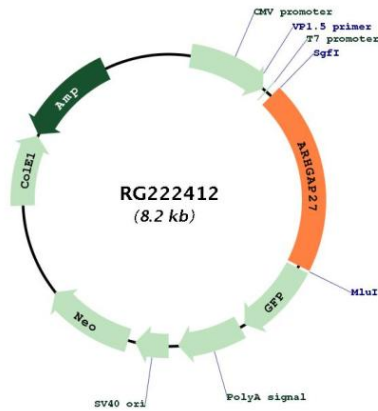
**Locus ID:** 201176

**UniProt ID:** [Q6ZUM4](#)

Cytogenetics: 17q21.31

Gene Summary: This gene encodes a member of a large family of proteins that activate Rho-type guanosine triphosphate (GTP) metabolizing enzymes. The encoded protein may play a role in clathrin-mediated endocytosis. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Aug 2013]

**Product images:**



Circular map for RG222412