

Product datasheet for **RG215806**

SH3GL2 (NM_003026) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SH3GL2 (NM_003026) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SH3GL2
Synonyms:	CNSA2; EEN-B1; SH3D2A; SH3P4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215806 representing NM_003026 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGTGGCCGGCCTCAAGAAGCAGTTCATAAAGCCACTCAGAAAGTGAGTGAGAAGGTTGGAGGAG
CTGAAGGAACCAAGCTAGATGATGACTTCAAAGAGATGAAAGGAAAAGTGGATGTCACCAGCAGGGCTGT
GATGGAATAATGACTAAAACAATTGAATACCTTCAACCCAATCCAGCTTCCAGAGCTAAGCTCAGCATG
ATCAACACCATGTCAAAAATCCGTGGCCAGGAGAAGGGCCAGGCTATCCTCAGGCAGAGGCGCTGCTGG
CAGAGGCCATGCTCAAATTTGGAAGAGAGCTTGGAGATGATTGCAACTTTGGCCAGCAGCTTGGTGAGGT
CGGGGAGGCCATGCGGGAAGTGTGCGGAGGTCAAAGACTCTTTGGACATAGAAGTGAAGCAGAAGTTCATT
GACCCCTTTCAGAATCTTCATGACAAAAGATCTTAGGGAAATTCACATCATCTAAAGAAGTTGGAGGGTC
GACGCCTGGATTTTGATTATAAGAAGAAACGACAAGGCAAGATTCGGATGAAGAGCTTCGTCAAGCTCT
AGAGAAATTTGATGAGTCTAAGGAAATGCTGAGTCAAGCATGTTCAATCTCTTGGAGATGGATATTGAA
CAAGTGAGCCAGCTCTGCACTTGTGCAAGCTCAGCTGGAGTACCACAAGCAGGCAGTCCAGATCTCTGC
AGCAAGTCACGGTCAGACTGGAAGAAAGAATAAGACAGGCTTTCATCTCAGCCTAGAAGGGAATATCAACC
TAAACCACGAATGAGCCTGGAGTTTCCAAGTGGAGACAGTACTCAGCCCAATGGGGTCTCTCCACACA
GGCACTCCAAACCTTCAGGTGTCAAAATGGATCAGCCCTGCTGCCGAGCTCTGTACGACTTTGAACCTG
AAAATGAAGGGGAGTTGGGATTTAAAGAGGGCGATATCATCACACTCACTAACCAAAATGATGAGAACTG
GTATGAGGGGATGCTGCATGGCCATTAGGCTTCTTCCCATCAATTATGTGAAAATCTGGTTGCCTG
CCCAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG215806 representing NM_003026
 Red=Cloning site Green=Tags(s)

MSVAGLKKQFHKATQKVSEKVGGAEGTKLDDDFKEMERKVDVTSRAVMEIMTKTIEYLQPNPASRAKLSM
 INTMSKIRGQEKGPYPQAEALLAEAMLKFGRELGDCCNFGPALGEVGEAMRELSEVKDSLIDIEVKQNF I
 DPLQNLHDKDLREIQHHLKKLEGRRLDFDYKKRQGKIPDEELRQALEKFDESKEIAESSMFNLLMDIE
 QVSQLSALVQAQLEYHKQAVQIILQQVTVRLEERIRQASSQPRREYQPKPRMSLEFPTGDSTQPNGGLSHT
 GTPKPSGVQMDQPCCRALYDFEPENEGELGFKEGDIITL TNQIDENWYEGMLHGHSGFPPINYEILVAL
 PH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003026

ORF Size: 1056 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_003026.5](#)

RefSeq Size: 2540 bp

RefSeq ORF: 1059 bp

Locus ID: 6456

UniProt ID: [Q99962](#)

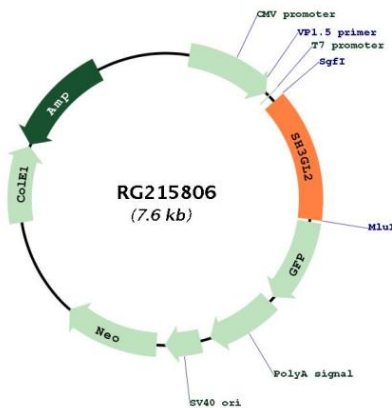
Cytogenetics: 9p22.2

Domains: SH3, BAR

Protein Pathways: Endocytosis

Gene Summary: Implicated in synaptic vesicle endocytosis. May recruit other proteins to membranes with high curvature. Required for BDNF-dependent dendrite outgrowth. Cooperates with SH3GL2 to mediate BDNF-NTRK2 early endocytic trafficking and signaling from early endosomes. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG215806