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Product datasheet for RG202772

Secretogranin V (SCG5) (NM_003020) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Secretogranin V (SCG5) (NM_003020) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SCG5
Synonyms:	7B2; P7B2; SGNE1; SgV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG202772 representing NM_003020
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTCTCCAGGATGGTCTCTACCATGCTATCTGGCCTACTGTTTTGGCTGGCATCTGGATGGACTCCAG
CATTTGCTTACAGCCCCCGGACCCCTGACCGGGTCTCAGAAGCAGATATCCAGAGGCTGCTTCATGGTGT
TATGGAGCAATTGGGCATTGCCAGGCCCCGAGTGGAATATCCAGCTCACCAGGCCATGAATCTTGTGGGC
CCCCAGAGCATTGAAGGTGGAGCTCATGAAGGACTTCAGCATTTGGGTCCTTTTGGCAACATCCCCAACA
TCGTGGCAGAGTTGACTGGAGACAACATTCCTAAGGACTTTAGTGAGGATCAGGGGTACCCAGACCCTCC
AAATCCCTGTCCTGTTGGAAAAACAGCAGATGATGGATGTCTAGAAAACACCCCTGACACTGCAGAGTTC
AGTCGAGAGTTCCAGTTGCACCAGCATCTCTCTGATCCGGAACATGACTATCCAGGCTTGGGCAAGTGGA
ACAAGAAACTCCTTTACGAGAAGATGAAGGGAGGAGAGAGACGAAAGCGGAGGAGTGTCAATCCATATCT
ACAAGGACAGAGACTGGATAATGTTGTTGCAAAGAAGTCTGTCCCCCATTTTTCAGATGAGGATAAGGAT
CCAGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

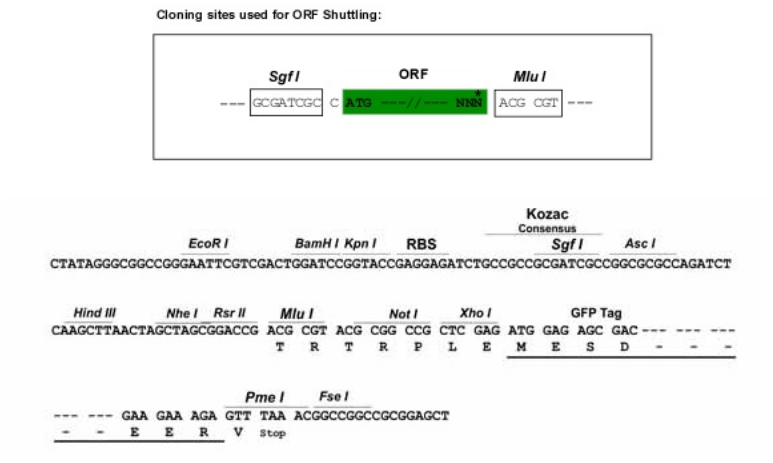
>RG202772 representing NM_003020
Red=Cloning site Green=Tags(s)

MVSRMVSTMLSGLLFWLASGWTPAFAYSPRTPDRVSEADIQRLLHGVMEQLGIARPRVEYPAHQAMNLVG
PQSIEGGAHEGLQHLGPFGNIPNIVAELTGDNIPKDFSEDQGYPDPPNPCPVGKTADDGCLENTPDTAEF
SREFQLHQHLSDPEHDYPGLGKWNKKLLYEKMKGGERRKRRSVNPYLQGQRLDNVVAKKSVPHFSDEDKD
PE

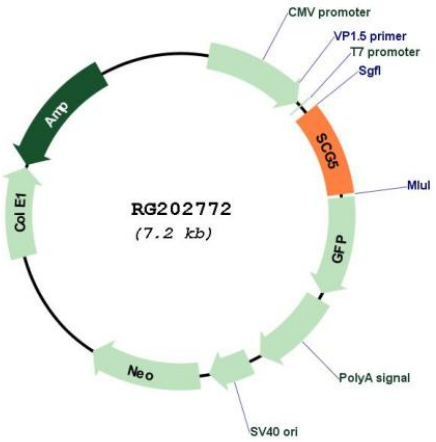
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_003020

ORF Size: 633 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_003020.1, NP_003011.1

RefSeq Size: 1152 bp

RefSeq ORF: 636 bp

Locus ID: 6447

UniProt ID: P05408

Cytogenetics: 15q13.3

Protein Families: Secreted Protein

Gene Summary: This gene encodes a secreted chaperone protein that prevents the aggregation of other secreted proteins, including proteins that are associated with neurodegenerative and metabolic disease. The encoded protein may be best known for its role in the trafficking and activation of prohormone convertase PC2 (encoded by Gene ID: 5126). Phosphorylation of the encoded protein has been shown to have an inhibitory effect on its chaperone function. This gene also produces a ARHGAP11A-SCG5 readthrough transcript and ARHGAP11A-SCG5 protein. [provided by RefSeq, Feb 2019]