OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG217287

SNAP23 (NM_130798) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SNAP23 (NM_130798) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SNAP23
Synonyms:	HsT17016; SNAP-23; SNAP23A; SNAP23B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG217287 representing NM_130798
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATAATCTGTCATCAGAAGAAATTCAACAGAGAGCTCACCAGATTACTGATGAGTCTCTGGAAAGTA
CGAGGAGAATCCTGGGTTTAGCCATTGAGTCTCAGGATGCAGGAATCAAGACCATCACTATGCTGGATGA
ACAAAAGGAACAACTAAACCGCATAGAAGAAGGCTTGGACCAAATAAATAAGGACATGAGAGAGACAGAG
AAGACTTTAACAGAACTCAACAAATGCTGTGGCCTTTGTGTCTGCCCATGTAATAGCATAACTAATGATG
CCAGAGAAGATGAAATGGAAGAGAACCTGACTCAAGTGGGCAGTATCCTGGGAAATCTAAAAGACATGGC
CCTGAACATAGGCAATGAGATTGATGCTCAAAATCCACAAATAAAACGAATCACAGACAAGGCTGACACC
AACAGAGATCGTATTGATATTGCCAATGCCAGAGCAAAGAAACTCATTGACAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG217287 representing NM_130798
Red=Cloning site Green=Tags(s)

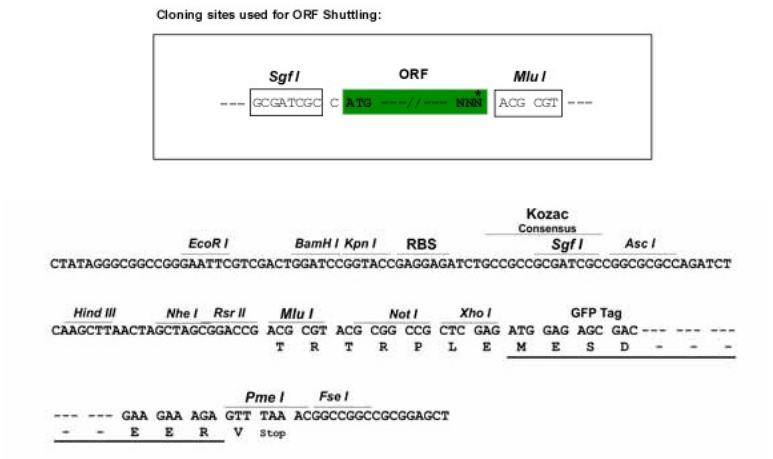
MDNLSSEEIQQRAHQITDESLESTRRILGLAIESQDAGIKTITMLDEQKEQLNRIEEGLDQINKDMRETE
KTLTELNKCCGLCVCPCNSITNDAREDEMEENLTQVGSILGNLKDMALNIGNEIDAQNPQIKRITDKADT
NRDRIDIANARAKKLIDS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

View online »

Cloning Scheme:



ACCN:	NM_130798
ORF Size:	474 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_130798.2, NP_570710.1
RefSeq Size:	2148 bp
RefSeq ORF:	477 bp
Locus ID:	8773
UniProt ID:	O00161

Cytogenetics: 15q15.1-q15.2

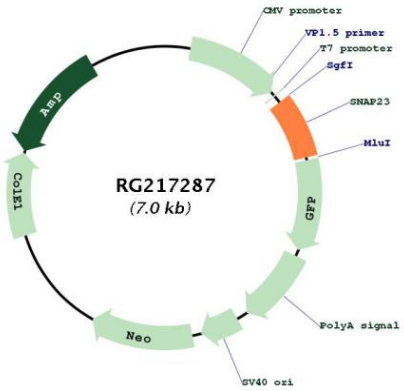
Domains: t_SNARE

Protein Families: Druggable Genome

Protein Pathways: SNARE interactions in vesicular transport

Gene Summary: Specificity of vesicular transport is regulated, in part, by the interaction of a vesicle-associated membrane protein termed synaptobrevin/VAMP with a target compartment membrane protein termed syntaxin. These proteins, together with SNAP25 (synaptosome-associated protein of 25 kDa), form a complex which serves as a binding site for the general membrane fusion machinery. Synaptobrevin/VAMP and syntaxin are believed to be involved in vesicular transport in most, if not all cells, while SNAP25 is present almost exclusively in the brain, suggesting that a ubiquitously expressed homolog of SNAP25 exists to facilitate transport vesicle/target membrane fusion in other tissues. The protein encoded by this gene is structurally and functionally similar to SNAP25 and binds tightly to multiple syntaxins and synaptobrevins/VAMPs. It is an essential component of the high affinity receptor for the general membrane fusion machinery and is an important regulator of transport vesicle docking and fusion. Two alternative transcript variants encoding different protein isoforms have been described for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG217287