

Product datasheet for **RG208183**

SYT9 (NM_175733) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SYT9 (NM_175733) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SYT9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208183 representing NM_175733
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCGGGCCAGGGACGCGCTGTGCACCAGGCGCTGCAGCTGCTGGCCGAGCTCTGTGCCCGTGGG
 CCTGGAGCACGACAGCTGCCAGATTTCAATTTACCACCTGCGGGACCGTGCCAGACCCCGCTCCGCGA
 CCCAGATATCTCAGTGAGCCTGTGACCCTTGTGGTCACTGCCTGTGGTCTCGCTCTCTTTGGCGTGTCT
 CTCTTCGTATCTTGAAACTCTGCTGGGTTCCGTGGCGAGAACGAGGCCTGCCCTCTGGTAGCAAAGACA
 ACAACCAGGAGCCCTTAACTACATGGACACAGAGACCAATGAGCAGGAGAACAGTGAGGACTTCTAGA
 CCCTCCCACGCCCTGCCCTGACTCCTCCATGAAGATCAGCCACACCTCCCCTGACATTCCCCTCTCCACC
 CAGACGGGATCCAGGAGAACTGTGCCATGGCGTCCGCGTGCAGCGCAAGTACAGAGCCAACCTCGT
 CGGCCCGCATAATCAATCCGAAGACAACCACTTGTCAAACCCGGACTTCAATATCCAGCAGCTTCA
 AAAACAGGAACAGTTGACTGGAATTGGTAGAATTAACCAGAGTTATATAAGCAGAGGTCATTGGATAAT
 GATGACGGGAGACGGAGTAACAGCAAGGCTTGTGGGAACTGAATTCATTTTAAAAATGACTGTGACT
 TAGAGCAGCTCATAGTGAAGATTCACAAAGCTGTCAATTTGCCCGCCAAGGACTTTTCTGGGACTTCAGA
 TCCTTATGTCAAGATCTATTTGCTTCTGATCGGAAAACAAAACACCAGACTAAAGTTACAGAAAAGACC
 CTGAACCTGTGTTTGTGAAGTGTATTTTCCGGTTCCTACAATGACCTTGAAGCAGGAAGCTTC
 ACTTCTCTGTGTACGACTTTGACAGGTTCTCTCGTCATGACTTAATCGGCCAAGTGGTGGTGGATCACTT
 CCTAGACTTGGCTGATTTCCCAGGGAGTGCATCCTTTGGAAGGATATCGAATATGTCACCAATGACAAC
 GTGGATCTGGGAGAGCTGATGTTTTCCCTGTGCTATCTCCAACGGCTGGCAGGCTGACCATTACCATTA
 TAAAAGCAAGGAATTTAAAGCAATGGACATAACAGGAGCATCAGATCCCTATGTGAAAGTCTCGCTGAT
 GTGTGATGGCAGACGACTGAAGAAGAGGAAAACATCCACCAAGAGGAACACCTTGAATCCTGTTTACAAC
 GAAGCCATAGTCTTTGATGTCCCTCCCAGAACATTGACCAAAATCCACTTGTCCATAGCAGTCATGGACT
 ATGACCGTGTAGGTCACAATGAGATCATCGGCGTGTGCAAGTAGGCAACGAGGCTGAGAGGCTGGGCAG
 AGACCACTGGAGTGAAATGTTGTCATATCCTCGGAAGCCATTGCACACTGGCATTCCCTGGTGGAGAAA
 CGA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG208183 representing NM_175733
 Red=Cloning site Green=Tags(s)

MPGARDALCHQALQLLAELCARGALEHSDSCQDFIYHLRDRARPRLRDPDISVSLTLVVTACGLALFGVS
 LFVSWKLCWVPWRERGLPSGSKDNNQEPLNYMDTETNEQENSEDFLDPPTPCPDSSMKISHTSPDIPLST
 QTGIQENCAHGVRVQRQVTEPTSSARHNSIRRQLNLSNPDFNIQQLQKQEQLTGIGRIKPELYKQRSLDN
 DDGRRSNSKACGKLNFIKLYDCDLEQLIVKIHKAVNLPKDFSGTSDPYVKIYLLPDRKTKHQTKVHRKT
 LNPVFDEVFLFPVPYNDLEARKLHFSVYDFDRFSRHDLIGQVVVDHFLDLADFPRECILWKDIEYVTNDN
 VDLGELMFLCYLPTAGRLTITIIKARNLKAMDITGASDPYVKVSLMCDGRRLKRRKTSKRNLTNPVYN
 EAVIFDVPENIDQIHLSTIAVMDYDRVGHNEIIGVCQVGNEAERLGRDHWSEMLSYPRKPIAHWHSLSVEK
 R

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_175733

ORF Size: 1473 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_175733.3](#)

RefSeq Size: 3975 bp

RefSeq ORF: 1476 bp

Locus ID: 143425

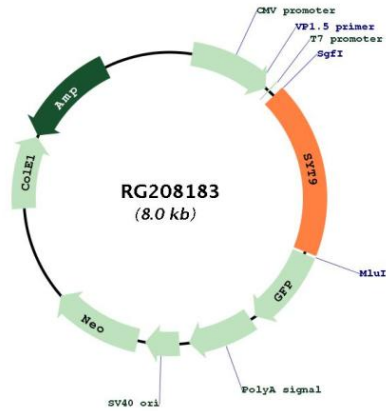
UniProt ID: [Q86SS6](#)

Cytogenetics: 11p15.4

Protein Families: Secreted Protein, Transmembrane

Gene Summary: May be involved in Ca(2+)-dependent exocytosis of secretory vesicles through Ca(2+) and phospholipid binding to the C2 domain or may serve as Ca(2+) sensors in the process of vesicular trafficking and exocytosis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG208183