

Product datasheet for **RG217658**

SYT10 (NM_198992) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SYT10 (NM_198992) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SYT10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG217658 representing NM_198992
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGTTTCCACAAGGAGGACGGAGTGAACAGTCTGTGCCAGAAGGCTCTGCACATCGTCACCGAGCTGT
 GCTTCGCGCGGCCAGGTGGAGTGGGAGAAGTGCTCGGGCATCTTCCTCGGGACAGGGGCAGCCAGGGCGG
 AAGCAGACAGATATTTCACTCAGCCTGTTAGCTGTCGTTGTCAGCTTTTGTGGACTGGCCTTGTGGTT
 GTCTCACTTTTGTCTTCTGGAAGCTGTGTTGGCCATGCTGAAAAGCAAACCTGTGACTTCCAACATCA
 CTACGCTTCCACAGAGCATTTCAAGTGCTCTACTGAAGTTTTGAGACTGAAGAGAAAAAGAAATTA
 GGAAAAATGAAAGCCAGCCGTAAGAGCTATTGAGCCTGCAATAAAAAATCAGCCACACTTCCCCTGACATC
 CCAGCAGAAGTCCAACTGCTTTAAAGAACATTTAATTAACATGCACGTGTGCAAAGACAAATTACTG
 AGCCTACGTCAACCCGCCACAGTTCCTTCCGAAGACACCTGCCGAGGCAAATGCAGGTTTCCAGTGT
 TGATTTTAGCATGGGCACAGAACCTGTTTACAACGAGGAGAAACAACACAGCATTGGGAGGATAAAG
 CCAGAACTCTACAAACAGAAATCAGTTGACTCTGAGGGCAACCAAAACGAAGATGTCAAAATCTGTGGGA
 AACTTAACTTTACCTCCAGTATGATTATGAAATGAAGTCTAGTTGTTAAATTTATCAAAGCTTTAGA
 TCTCCCTGCTAAAGACTTCACAGGAAGTCTGACCCCTTATGTGAAGATGTATCTTCTCCAGATAGGAAA
 AAGAAATTTAGACCCCGGTGCACAGAAAGACTTTAAATCCTCTATTTGATGAACTTTTCAATTCCTG
 TAGCATATGATCAACTAAGCAACCGAAACTACATTTCACTGTGTATGATTTTGACAGATTTTCTAGACA
 TGACATGATTGGGAAGTGATTCTTGATAATTTGTTGAAGTCTCTGATCTCTCCAGGGAAGCCACAGTA
 TGGAAAGATATCACTGTGCTACCACAGAAAGTATAGACCTGGGTGAAATCATGTTTCCCTTTGTTACC
 TACCGACGGCTGGCGTATGACATTGACAGTCATTAAGTGCAGAAATCTGAAGGCGATGGATATTACTGG
 CTCATCAGATCCTTATGTCAAAGTGCCCTGATGTGTGAAGTCAAGATTAAAAAGAGGAAACAACT
 ACAAAGAAAAAACTCTAAACCTGTGTACAATGAGGCCATTATTTTGACATCCCTCCAGAGAAGCTGG
 ACCAGGTGAGCTCTCCATTGCGGTGATGATTACGATAGGGTAGGACACAATGAGGTATAGGAGTGTG
 CAGAACAGGACTGGATGCTGAGGCTTGGGCGAGACCACTGGAATGAAATGCTGGCCTATCATCGAAAA
 CCAATAACGCACTGGCACCCATTGCTGGAGTTACCTGGCCGGCGACAGTTTGTATAGTCAAGGATCCT
 GCCCTTCTCTAAACACCTTCCACACCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG217658 representing NM_198992
 Red=Cloning site Green=Tags(s)

MSFHKEDGVNSLCQKALHIVTELCFAGQVEWEKCSGIFPRDRGSQGSSTDISVSL LAVVVSFCGLALLV
 VSLFVFWKLCWPCWKS KPVTSNITTL PQSISSAPTEVFETEEKKEIKENEKPAVKAIEPAIKISHTSPDI
 PAEVQTALKEHLIKHARVQRQITEPTSSSTRHSSFRRLPRQM VSSVDFSMGTEPVLQRGETTTSIGRIK
 PELYKQKSV DSEGNQEDVKICGKLNFTLQYDYENELLVVKI I KALDLPKDFGTGSDPYVKMYLLPDRK
 KKFQTRVHRKTLNPLFDETFQFPVAYDQLSNRKLHFSVYDFDRFSRHD M IGEVILDNLFEVSDLSREATV
 WKDIHCATTESIDLGEIMFSLCYLPTAGRMTLTVIKCRNLKAMDITGSSDPYVKVSLMCEGRRLKKRKT
 TTKNTLNPVYNEAIIIFDIPPENVDQVSLIAVMDYDRVGHNEVIGVCRTGLDAEGLGRDHWNEMLAYHRK
 PITHWHPLLELPGRATSFDSQGS CSPKPPSTP

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_198992

ORF Size: 1569 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_198992.4](#)

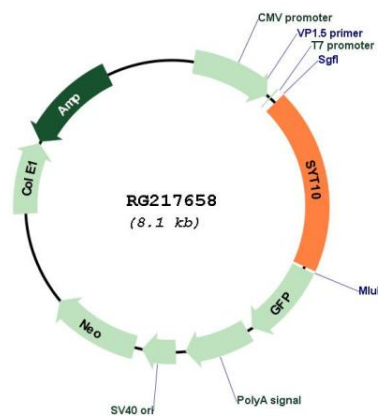
RefSeq Size: 3287 bp

RefSeq ORF: 1572 bp

Locus ID: 341359

UniProt ID:	<u>Q6XYQ8</u>
Cytogenetics:	12p11.1
Protein Families:	Secreted Protein, Transmembrane
Gene Summary:	Ca(2+) sensor specifically required for the Ca(2+)-dependent exocytosis of secretory vesicles containing IGF1 in neurons of the olfactory bulb. Exocytosis of IGF1 is required for sensory perception of smell. Not involved in Ca(2+)-dependent synaptic vesicle exocytosis (By similarity). Acts through Ca(2+) and phospholipid binding to the C2 domain: Ca(2+) induces binding of the C2-domains to phospholipid membranes and to assembled SNARE-complexes; both actions contribute to triggering exocytosis (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG217658