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Product datasheet for RG234061

Synaptotagmin VI (SYT6) (NM_001270805) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Synaptotagmin VI
Synonyms:	sytVI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG234061 representing NM_001270805
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCCTGGAGGAACAAGGAGGCCTCCAGTCCCTCTTCTGCTAATCCCCCCTTGGAAGCCCTCCAGAGCC
CCAGCTTCAGAGGCAACATGGCGGACAAGCTGAAGGACCCCAGCACCCTGGGCTTCCTGGAGGCGGCCGT
GAAGATCAGCCACACGTCCCCAGATATCCCAGCTGAGGTGCAGATGTCGGTCAAGGAGCACATCATGCGT
CACACCCGGCTGCAGCGGCAAACTACAGAGCCAGCGTCATCCACCAGGCACACGTCCTTCAAGCGCCACC
TGCCAAGGCAGATGCATGTCTCCAGTGTAGACTATGGCAATGAGCTTCCACCAGCAGCAGAGCAGCCCAC
CAGCATTGGCCGCATCAAGCCTGAGCTCTACAAGCAGAAGTCGGTGGATGGGGAGGATGCCAAGTCTGAG
GCCACCAAGAGCTGCGGGAAGATCAACTTCAGCCTACGCTACGATTACGAGACCGAGACCCTGATTGTGC
GTATCCTGAAGGCTTTTGACCTCCCTGCCAAGGACTTTTGTGGAAGCTCTGACCCTTATGTCAAGATCTA
CCTCCTGCCTGACCGCAAATGCAAGCTGCAGACCCGGGTGCACCGCAAGACCCTGAACCCCACCTTTGAT
GAGAACTTCCACTTCCCTGTGCCCTATGAGGAGCTGGCTGACCGCAAGCTGCATCTCAGTGTCTTCGACT
TTGACCGCTTCTCCCGCCATGACATGATTGGCGAGGTCATCCTGGACAACCTCTTTGAGGCCTCTGACCT
GTCTCGGGAAACCTCCATCTGGAAGGATATCCAATATGCCACAAGTGAAAGCGTGGACTTGGGAGAGATC
ATGTTCTCCCTTTGCTACCTGCCCACTGCAGGCAGGCTCACCCTCACAGTGATTAAGTGTCGGAACCTCA
AGGCGATGGACATCACAGGCTATTCAGATCCCTATGTGAAAGTGTCCTTGCTCTGTGATGGGCGGAGGCT
GAAGAAGAAGAAAACAACCATAAAGAAAAACACTCTCAATCCTGTCTACAATGAGGCCATCATCTTTGAC
ATTCCCCCGGAAAACATGGATCAAGTCAGCCTGCTCATCTCAGTCATGGACTATGATCGAGTGGGCCACA
ATGAGATCATAGGAGTCTGTCGTGTGGGGATCACTGCTGAAGGCCTGGGCAGGGACCACTGGAACGAGAT
GCTGGCATACCCCCGGAAGCCCATCGCACACTGGCACTCCTTGGTGGAGGTAAAGAAATCCTTCAAAGAG
GGAAACCCTCGGTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

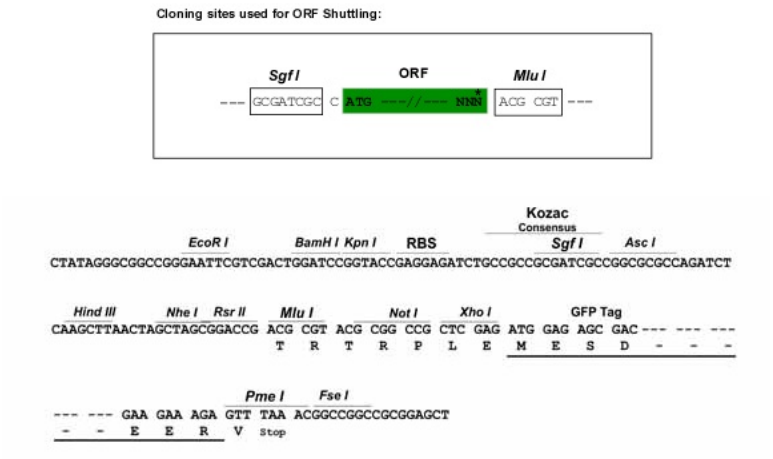
>RG234061 representing NM_001270805
Red=Cloning site Green=Tags(s)

MPWRNKEASSPSSANPPLEALQSPSFRGNMADKLKDPSTLGFLEAAVKISHTSPDIPAEVQMSVKEHIMR
HTRLQRQTTEPASSTRHTSFKRHLPRQMHVSSVDYGNELPPAAEQPTSIGRIKPELYKQKSVDGEDAKSE
ATKSCGKINFSLRYDYETETLIVRILKAFDLPAKDFCGSSDPYVKIYLLPDRKCKLQTRVHRKTLNPTFD
ENFHFPVPYEELADRKLHLSVFDFDRFSRHDMIGEVILDNLFEASDLSRETSIWKDIQYATSESVDLGEI
MFSLCYLPTAGRLTLTVIKCRNLKAMDITGYSDPYVKVSLLCDGRRLKKKKTTIKKNTLNPVYNEAIIFD
IPPENMDQVSLLISVMDYDRVGHNEIIGVCRVGITAEGLGRDHWNEMLAYPRKPIAHWHSLVEVKKSFKE
GNPRL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001270805

ORF Size: 1275 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).

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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_001270805.1, NP_001257734.1
RefSeq Size:	4375 bp
RefSeq ORF:	1278 bp
Locus ID:	148281
UniProt ID:	Q5T7P8
Cytogenetics:	1p13.2
Protein Families:	Secreted Protein, Transmembrane
Gene Summary:	The protein encoded by this gene belongs to the synaptotagmin family. Synaptotagmins share a common domain structure that includes a transmembrane domain and a cytoplasmic region composed of 2 C2 domains, and are involved in calcium-dependent exocytosis of synaptic vesicles. This protein has been shown to be a key component of the secretory machinery involved in acrosomal exocytosis. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Dec 2011]

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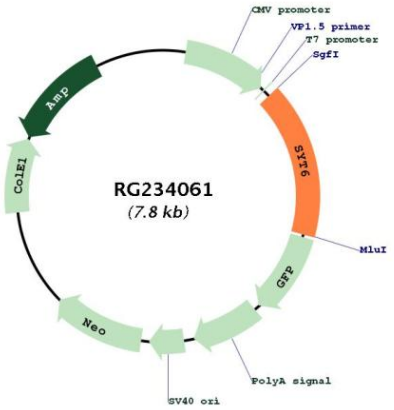
Product images:



Circular map for RG234061

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