

Product datasheet for **RG237151**

SYT13 (NM_001247987) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SYT13 (NM_001247987) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SYT13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237151 representing NM_001247987. Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
ATGGAGACCTGGAACCCAGAGAAGGCTGCCAGTTGGAACAGGCCCCAACTCCACTACTGCCTGGAC
TATGACTGTCAGAAGGCAGAATTGTTTGTGACTCGCCTGGAAGCTGTGACCAGCAACCACGACGGAGGC
TGTGACTGCTACGTCCAAGGGAGTGTGGCCAATAGGACCGGCTCTGTGGAGGCTCAGACAGCCCTAAAG
AAGCGGCAGCTGCACACCACCTGGGAGGAGGGCCTGGTGCTCCCCTGGCGGAGGAGGAGCTCCCCACA
GCCACCCTGACGCTGACCTTGAGGACCTGCGACCGCTTCTCCGTCACAGCGTGGCCGGGAGCTCCGC
CTGGGCTGGACGGGACATCTGTGCCTCTAGGGGCTGCCAGTGGGGCGAGCTGAAGACTTCAGCGAAG
GAGCCATCTGCAGGAGCTGGAGAGGTCTACTATCCATCAGTACCTCCCGGCTGCCAACCGCTCCTG
GTGGTGCTGATTAAAGCCAAGAACCTCCACTCTAACCAGTCCAAGGAGCTCCTGGGAAGGATGTCTCT
GTCAAGGTGACCTTGAAGCACCAGGCTCGGAAGCTGAAGAAGAAGCAGACTAAACGAGCTAAGCACAAG
ATCAACCCCGTGTGGAACGAGATGATCATGTTTGAGCTGCCTGACGACCTGCTGCAGGCCTCCAGTGTG
GAGCTGGAAGTGTGGCCAGGACGATTCAGGGCAGAGCTGTGCGCTTGGCCACTGCAGCCTGGGCCTG
CACACCTCGGGCTCTGAGCGCAGCCACTGGGAGGAGATGCTCAAAACCTCGCCGGCAGATTGCCATG
TGGCACCAGCTGCACCTG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC



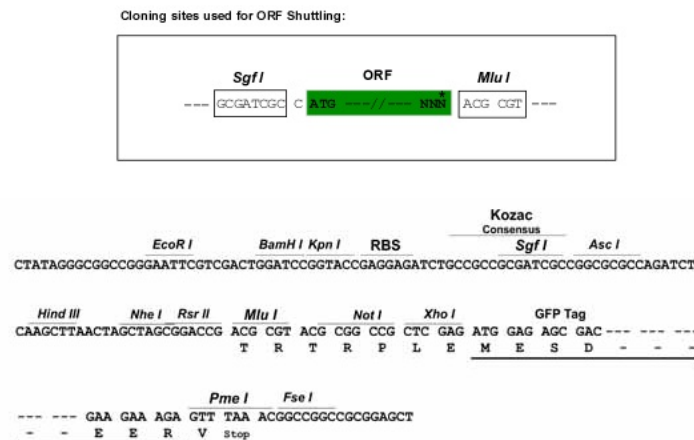
[View online »](#)

Protein Sequence: >Peptide sequence encoded by RG237151
 Blue=ORF Red=Cloning site Green=Tag(s)

METWNPEKAASWNQAPKLHYCLDYDCQKAELFVTRLEAVTSNHDGGCDCYVQGSVANRTGSVEAQTALK
 KRQLHTTWEEGLVPLAEEELPTATLTLTRTCDRFSRHSVAGELRLGLDGTSVPLGAAQWELKTSK
 EPSAGAGEVLLSISYLPAAANRLLVLIKAKNLHSNQSKELLGKDVSVKVTCLKHQARKLKKKQTKRAKHK
 INPVWNEMIMFELPDDLQASSVELEVLGQDDSGQSCALGHCSLGLHTSGSERSHWEEMLNPRRQIAM
 WHQLHL
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNTVEHLHPMGDNDLGSFTRTFSLRDGGYSSVVDSTMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001247987

ORF Size: 859 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).

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

RefSeq: [NM_001247987.2](#)

RefSeq Size: 5388 bp

RefSeq ORF: 849 bp

Locus ID: 57586

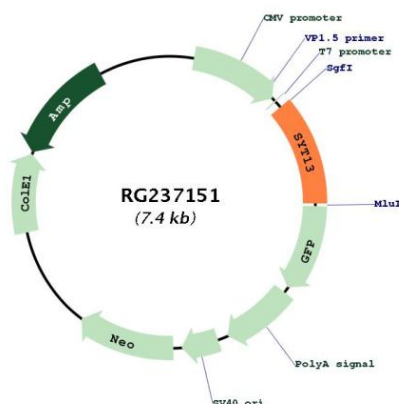
Cytogenetics: 11p11.2

Protein Families: Transmembrane

MW: 31.8 kDa

Gene Summary: This gene encodes a member of the large synaptotagmin protein family. Family members have an extracellular N-terminal transmembrane domain and a cytoplasmic C terminus with two tandem C2 domains (C2A and C2B). Synaptotagmin family members can form homo- and heteromeric complexes with each other. They also have different biochemical properties and developmental profiles, and patterns of tissue distribution. Synaptotagmins function as membrane traffickers in multicellular organisms. Two alternatively spliced transcript variants that encode different protein isoforms have been described for this gene. [provided by RefSeq, Oct 2011]

Product images:



Circular map for RG237151