

Product datasheet for **RG210849**

SYT13 (NM_020826) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SYT13 (NM_020826) 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:	>RG210849 representing NM_020826 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGCTGTGGTGCCTGTGATCGCGCTGGGCGCCACGCTGGGCACAGCCACCAGCATCTCGCGTTGT
GCGGGGTACCTGCCTGTGTGCGCACATGCACCCCAAGAAGGGGTGCTGCCGCGGACCAGGACCCGA
CCTGGAGAAGGCGAAGCCAGCTTGCTCGGGTCTGCACAACAGTTCAATGTTAAAAAGTCCACGGAACCT
GTTCAAGCCCGTGCCTCCTCAAGTTCACAGACATCTATGGACCCAGGCCAGCTGTGACGGCTCCAGAGG
TCATCAACTATGCAGACTATTCAGTGTGAGTCTACGGAGGAGCCCACTGCACCTGCCAGCCCCAACCC
GAATGACAGTGCCTCAAGAGGAGGTCACAGAGGAGCTGTTTCCTCCCTCAGAATGGTGTGGTGGAG
GATGTCTGTGTCATGGAGACCTGGAACCCAGAGAAGGCTGCCAGTTGGAACAGGCCCCCAACTCCACT
ACTGCCTGGACTATGACTGTGAGAAGGCAGAAATTGTTGTGACTCGCCTGGAAGCTGTGACCAGCAACCA
CGACGGAGGCTGTGACTGCTACGTCCAAGGGAGTGTGGCCAATAGGACCGGCTCTGTGGAGGCTCAGACA
GCCCTAAAGAAGCGGCAGCTGCACACCCTGGGAGGAGGCTGGTGTCCCCCTGGCGGAGGAGGAGC
TCCCCACAGCCACCCTGACGCTGACCTTGAGGACCTGCGACCGCTTCTCCCGTCACAGCGTGGCCGGGA
GCTCCGCTGGGCTGGACGGGACATCTGTGCTCTAGGGGCTGCCAGTGGGGCGAGCTGAAGACTTCA
GCGAAGGAGCCATCTGCAGGAGCTGGAGAGGTCTACTATCCATCAGCTACCTCCCGCTGCCAACCGCC
TCTGGTGGTGTGATTAAAGCCAAGAACCTCCACTCTAACCAGTCCAAGGAGCTCTGGGAAGGATGT
CTCTGTCAAGGTGACCTTGAAGCACCAGGCTCGGAAGCTGAAGAAGAAGCAGACTAAACGAGCTAAGCAC
AAGATCAACCCCGTGTGGAACGAGATGATCATGTTTGAAGTGCCTGACGACCTGTGACGGCTCCAGTG
TGGAGCTGGAAGTGTGGGCCAGGACGATTCAGGGCAGAGCTGTGCGCTTGGCCACTGCAGCCTGGGCT
GCACACCTCGGGCTCTGAGCGCAGCCACTGGGAGGAGATGCTCAAAAACCTCGCCGGCAGATTGCCATG
TGGCACCAGCTGCACCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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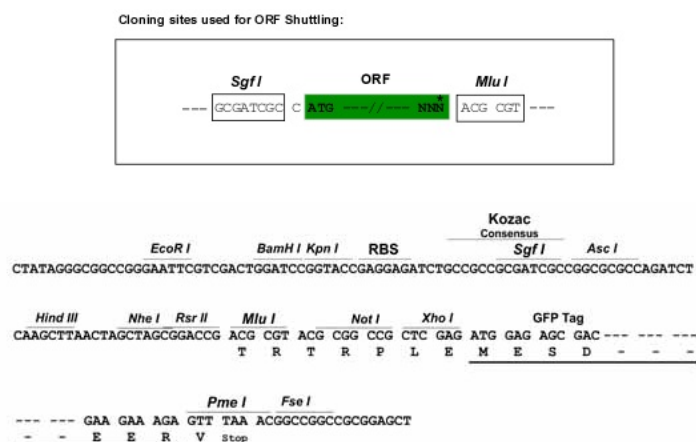
Protein Sequence: >RG210849 representing NM_020826
Red=Cloning site Green=Tags(s)

MVL SVPVIALGATLGTAT SILALCGVTCLCRHMPHKGLLPRDQDPLEAKAPSLLGSAQQFNVKKSTEP
 VQPRALLKFPDIYGRPAVTAPEVINYADYSLRSTEETAPASQPPPNDSRLKRQVTEELF ILPQNGVVE
 DVCVMTWNPEKAASWNQAPKLHYCLDYDCQKAELFVTRLEAVTSNHDGGDCYVQGSVANRTGSVEAQT
 ALKKRQLHTTWEEGLVLPLAEEELPTATLTTLRTCDRFSRHSVAGELRLGLDGTSVPLGAAQWGELKTS
 AKEPSVAGAGEVLLSISYLPAA NRLLVVL IKAKNLHSNQSKELLGKDVSVKVT LKHQARKLKKKQTKRAKH
 KINPWNEMIMFELPDDL LQASSVELEVLGQDDSGQSCALGHCSLGLHTSGSERSHWEEMLNPRRQIAM
 WHOLHL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM 020826

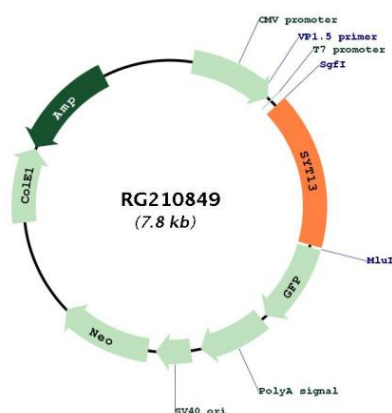
ORF Size: 1278 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_020826.3
RefSeq Size:	5108 bp
RefSeq ORF:	1281 bp
Locus ID:	57586
UniProt ID:	Q7L8C5
Cytogenetics:	11p11.2
Domains:	C2
Protein Families:	Transmembrane
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). Synaptotogmin 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 RG210849