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Product datasheet for RC237151

SYT13 (NM_001247987) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SYT13 (NM_001247987) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SYT13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC237151 representing NM_001247987
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGACCTGGAACCCAGAGAAGGCTGCCAGTTGGAACCAGGCCCCCAAACTCCACTACTGCCTGGACT
ATGACTGTCAGAAGGCAGAATTGTTTGTGACTCGCCTGGAAGCTGTGACCAGCAACCACGACGGAGGCTG
TGACTGCTACGTCCAAGGGAGTGTGGCCAATAGGACCGGCTCTGTGGAGGCTCAGACAGCCCTAAAGAAG
CGGCAGCTGCACACCACCTGGGAGGAGGGCCTGGTGCTCCCCCTGGCGGAGGAGGAGCTCCCCACAGCCA
CCCTGACGCTGACCTTGAGGACCTGCGACCGCTTCTCCCGTCACAGCGTGGCCGGGGAGCTCCGCCTGGG
CCTGGACGGGACATCTGTGCCTCTAGGGGCTGCCCAGTGGGGCGAGCTGAAGACTTCAGCGAAGGAGCCA
TCTGCAGGAGCTGGAGAGGTCCTACTATCCATCAGCTACCTCCCGGCTGCCAACCGCCTCCTGGTGGTGC
TGATTAAAGCCAAGAACCTCCACTCTAACCAGTCCAAGGAGCTCCTGGGGAAGGATGTCTCTGTCAAGGT
GACCTTGAAGCACCAGGCTCGGAAGCTGAAGAAGAAGCAGACTAAACGAGCTAAGCACAAGATCAACCCC
GTGTGGAACGAGATGATCATGTTTGAGCTGCCTGACGACCTGCTGCAGGCCTCCAGTGTGGAGCTGGAAG
TGCTGGGCCAGGACGATTCAGGGCAGAGCTGTGCGCTTGGCCACTGCAGCCTGGGCCTGCACACCTCGGG
CTCTGAGCGCAGCCACTGGGAGGAGATGCTCAAAAACCCTCGCCGGCAGATTGCCATGTGGCACCAGCTG
CACCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

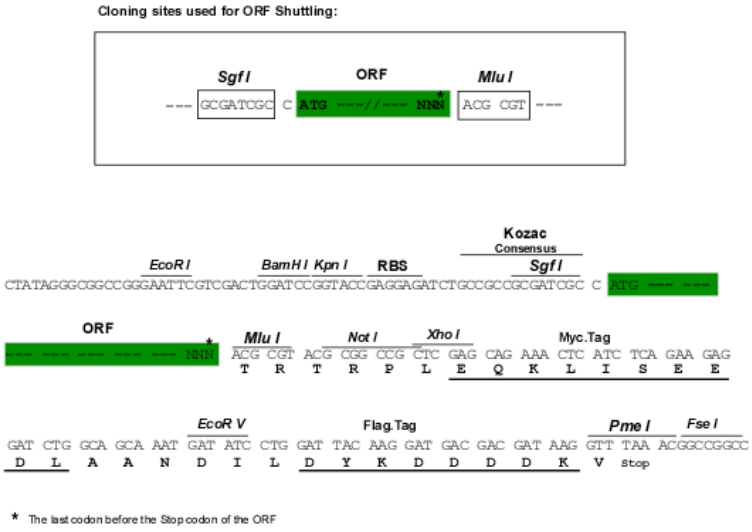
>RC237151 representing NM_001247987
Red=Cloning site Green=Tags(s)

METWNPEKAASWNQAPKLHYCLDYDCQKAELFVTRLEAVTSNHDGGCDCYVQGSVANRTGSVEAQTALKK
RQLHTTWEEGLVLPLAEEELPTATLTLTLRTCDRFSRHSVAGELRLGLDGTSVPLGAAQWGELKTSAKEP
SAGAGEVLLSISYLPAANRLLVVLIKAKNLHSNQSKELLGKDVSVKVTLKHQARKLKKKQTKRAKHKINP
VWNEMIMFELPDDLLQASSVELEVLGQDDSGQSCALGHCSLGLHTSGSERSHWEEMLKNPRRQIAMWHQL
HL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001247987

ORF Size: 846 bp

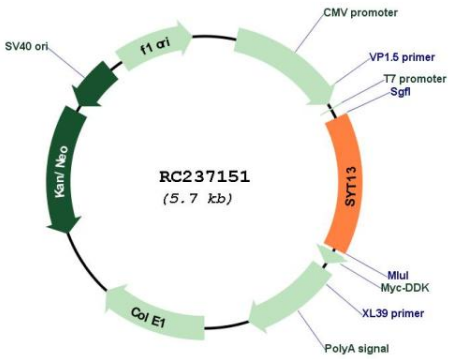
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_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). 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 RC237151