

Product datasheet for **RC230052**

SYT12 (NM_001177880) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SYT12 (NM_001177880) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SYT12
Synonyms:	SYT11; sytXII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RC230052 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGCTGTGGATGTGGCAGAATACCATCTGAGCGTCATCAAGAGCCCCCTGGCTGGGAGGTGGGTGTCT
ATGCTGCAGGGGCCCTGGCCCTGCTGGGAATCGCAGCTGTGAGCCTGTGGAAGCTCTGGAGTCCGGGAG
CTTCCCCAGCCCCTCTCCGTTCCCAATTACGACTACAGGTACCTTCAGCAGAAGTACGGCGAGAGCTGC
GCAGAGGCCAGGGAGAAGAGAGTGCCTGCCTGGAATGCCAGCGGGCCAGCACGCGGGGACCACCCAGCC
GCAAAGGCAGTCTCAGCATTGAGGACACCTTTGAGAGCATCAGTGAAGTGGGGCTCTGGAGCTGATGGG
CCGGGAGTTGGACCTGGCCCCATGGGACCCTCCGGAAGTCCCAGTCCGCGGACTCCCTGAACTCCATC
TCCTCCGTGAGCAACACCTTTGGGCAGGACTTCACACTGGCCAGGTGGAGGTGAGCATGGAGTACGACA
CTGCCTCCACACGCTGAACGTGGCGGTGATGCAGGGCAAGGACCTCCTGGAGCGGGAGGAGCCAGCTT
CGAGTCTGCTTCATGCGCGTCAGCCTGCTGCCGACGAGCAGATCGTGGCATTCTCGGATCCAGAGA
AATGCCTACTCCATCTTCTTTGATGAGAAGTCTCCATCCCCCTGGATCCACAGCCCTGGAGGAGAAGA
GCCTGCGGTTTTCTGTATTTGGCATCGATGAGGATGAGCGCAACGTCAGCACGGGGTGGTGGAGCTGAA
GCTTTCTGTGCTTACCTCCCGCTGCAGCCCTCAGTGGCTGGCTCTATTTACAGGACCAGAAACAAGGCC
GCCGATGCTGTGGGGGAGATCCTGCTCTCCCTCAGTACCTCCCCACAGCCGAGCGCCTCACCGTGGTGC
TGGTTAAGGCCAAGAACCTCATCTGGACCAACGACAAGACCACAGCGGACCCCTTCGTCGAAGGTGTACCT
GCTGCAGGATGGGAGGAAGATGAGCAAAAAGAAGACAGCCGTGAAGAGGGATGACCCCAACCCGGTGTTC
AACGAAGCCATGATCTTCTCGGTGCCAGCATTGTGCTCCAGGACCTGTCTCTCCGCGTACGGTGGCTG
AGAGCAGCAGCGACGGCCGTGGGGACAACGTGGGCCATGTCATCATTGGGCCGTACCCAGTGGCATGGG
AACACACATTGGAACCATGTTGGCCACGCTGCGCAGGCCCGTGTCCATGTGGCACGCTGTCCGGCGA
AAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC230052 protein sequence
Red=Cloning site Green=Tags(s)

MAVDVAEYHLSVIKSPPGWEVGVYAAGALALLGIAAVSLWKLWTSGSFSPSPFPNYDYRYLQQKYGES
AEAREKRVPAWNAQRASTRGPPSRKGSLSIEDTFESISELGPLELMGRELDLAPYGLRKSQSADSLNSI
SSVSNFTFGQDFTLGQVEVSMEDTASHTLNVAVMQKDLLEREEASFESCFMRVSLLPDEQIVGISRIQR
NAYSIFDEKFSIPLDPTALEEKSLRFSVFGIDEDESNVSTGVVELKLSVLDLPLQPFSGWLYLQDQNK
ADAVGEILLLSYLPTAERLTVVVVKAKNLIWTNDKTTADPFVKVYLLQDGRKMSKKTAVKRDDPNP
NEAMIFSVPAIVLQDLSLRVTVAESSDGRGDNVGHVVIIGPSASGMGTHWNQMLATLRPVSMMH
AVRRN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6726_a06.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001177880

ORF Size: 1263 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.

RefSeq: [NM_001177880.2](#)

RefSeq Size: 3632 bp

RefSeq ORF: 1266 bp

Locus ID: 91683

UniProt ID: [Q8IV01](#)

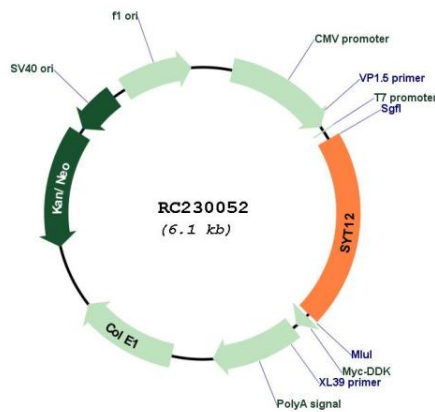
Cytogenetics: 11q13.2

Protein Families: Secreted Protein, Transmembrane

MW: 46.5 kDa

Gene Summary: This gene is a member of the synaptotagmin gene family and encodes a protein similar to other family members that mediate calcium-dependent regulation of membrane trafficking in synaptic transmission. Studies of the orthologous gene in rat have shown that the encoded protein selectively modulates spontaneous synaptic-vesicle exocytosis and may also be involved in regulating calcium independent secretion in nonneuronal cells. Alternative splicing results in multiple transcript variants. The gene has previously been referred to as synaptotagmin XI but has been renamed synaptotagmin XII to be standard with mouse and rat official nomenclature.[provided by RefSeq, Apr 2010]

Product images:



Circular map for RC230052