

## Product datasheet for **RG205445**

### **SYT11 (NM\_152280) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SYT11 (NM_152280) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SYT11
Synonyms:	SYT12; sytXI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205445 representing NM_152280 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGAGATCACCAATATCCGACCTAGCTTTGATGTGTACCAGGTGGTGGCCGGCCTCATCGGGCCT  
CTGTGCTGGTGGTGTGTCTCGGTGACCGTCTTTGTCTGGTCATGCTGCCACCAGCAGGCAGAGAAGAA  
GCACAAGAACCACCATAACAAGTTTATTCACATGCTCAAAGGCATCAGCATATACCCAGAGACCCTCAGC  
AACAGAAGAAAATCATCAAAGTGGGAGAGACAAAGATGGTCTGGGAGGAAGGTGGAGCTAGGAACC  
TGTTGGTGGAGCAGCAGAGGCTGGCCTGCTAAGCCGAGACAAAGATCCCAGGGGCCTAGCTCTGGATC  
TTGTATAGACCAATTACCCATCAAAATGGACTATGGGGAAGAAGTAAAGGAGCCCTATTACAAGCCTGACC  
CCTGGGGAGAGCAAAACCACCTCTCCATCATCTCCAGAGGAGGATGTCATGCTAGGATCCCTCACCTTCT  
CAGTGGACTATAACTTCCCGAAAAAGCCCTGGTGGTGACAATCCAGGAGGCCACGGGCTGCCAGTGAT  
GGATGACCAGACCCAGGGATCTGACCCCTACATCAAAATGACCATCCTTCTGACAAACGGCATCGGGTG  
AAGACCAGAGTGTGCGGAAGACCCTGGACCCTGTGTTGACGAGACCTTACCTTCTATGTCATCCCT  
ACAGCCAGCTGCAGGACCTGGTGTGCACTTCTTGTCTCAGCTTTGACCGCTTCTCTCGGGATGATGT  
CATTGGCGAGGTCATGGTGCCACTGGCAGGGGTGGACCCAGCACAGGCAAGTACAACCTGACCAGGGAC  
ATCATCAAAGGAATATCCAGAAGTGCATCAGCAGAGGGGAGCTCCAGGTGTCTGTGATATCAGCCTG  
TGGCACAGAGAATGACAGTGGTGGTCTCAAAGCCAGACACTTGCCGAAGATGGATATCACCGGTCTCTC  
AGGTAATCCTTATGTCAAGGTGAACGTCTACTACGGCAGAAAGCGCATTGCCAAGAAGAAAACCCATGTG  
AAGAAGTGCATTTGAACCCATCTTCAATGAATCTTTTCTACGACATCCCCACTGACCTCTGCCTG  
ATATCAGCATCGAGTTCTCGTTATCGACTTCGATCGCACCACCAAGAATGAGGTGGTGGGAGGCTGAT  
CCTGGGGGCACACAGTGTACAGCCAGTGGTGTGAACACTGGAGAGAGGTCTGCGAGAGCCCCGCAAG  
CCTGTGCCAAGTGGCACAGTCTGAGCGAGTAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG205445 representing NM\_152280  
Red=Cloning site Green=Tags(s)

MAEITNIRPSFDVSPVVAGLIGASVLVVCVSVTVFVWSCCHQQAEEKHKHNPPYKFIHMLKGISIYPETLS  
 NKKKIIVRRDKDGPREGGRRNLLVDAAEAGLLSRDKDPRGPGSSGSCIDQLPIKMDYGEELRSPITSLT  
 PGESKTTSPSSPEEDVMLGSLTFVVDYDFPKKALVVTIQEAHGLPVMDQTQGSOPYIKMTILPDKRHRV  
 KTRVLRKTLDPVDFETFFYVPIPYSQLQDLVLFHFLVLSFDRFSRDDVIGEVMPVLAGVDPSTGKVQLTRD  
 IIKRNIQKICISRGELQVLSYQPVQRMVTVVVKARHLPKMDITGLSGNPYVKVNVVYGRKRIAKKTHV  
 KKCTLNPIFNESFIYDIPTDLLPDISIEFLVIDFDRTTKNEVVGRLLILGAHSVTSAGAEHWREVCESPRK  
 PVAKWHSLSSEY

TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_152280

**ORF Size:** 1293 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\\_152280.2](#), [NP\\_689493.2](#)

**RefSeq Size:** 5103 bp

**RefSeq ORF:** 1296 bp

**Locus ID:** 23208

**UniProt ID:** [Q9BT88](#)

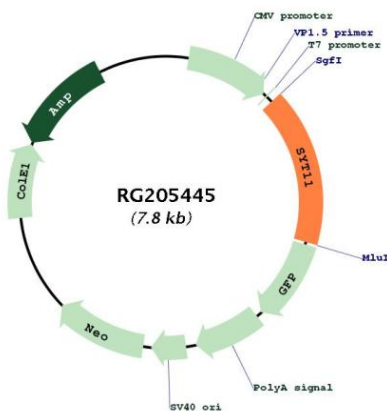
**Cytogenetics:** 1q22

**Domains:** C2

**Protein Families:** Transmembrane

**Gene Summary:** This gene is a member of the synaptotagmin gene family and encodes a protein similar to other family members that are known calcium sensors and mediate calcium-dependent regulation of membrane trafficking in synaptic transmission. The encoded protein is also a substrate for ubiquitin-E3-ligase parkin. The gene has previously been referred to as synaptotagmin XII but has been renamed synaptotagmin XI to be consistent with mouse and rat official nomenclature. [provided by RefSeq, Apr 2010]

## Product images:



Circular map for RG205445