

## Product datasheet for SC100307

### SYT11 (NM\_152280) Human Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | SYT11 (NM_152280) Human Untagged Clone  |
| Tag:                      | Tag Free  |
| Symbol:                   | SYT11   |
| Synonyms:                 | SYT12; sytXI  |
| Mammalian Cell Selection: | None  |
| Vector:                   | <u>pCMV6-XL4</u>  |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| Fully Sequenced ORF:      | >OriGene ORF within SC100307 sequence for NM_152280 edited (data generated by NextGen Sequencing) |

```

ATGGCTGAGATACCAATATCCGACCTAGCTTTGATGTGTGCCCGTGGTGGCCGCCTC
ATCGGGGCTCTGTGCTGGTGGTGTGTCTCGGTGACCGTCTTTGTCTGGTCATGCTGC
CACCAGCAGGCAGAGAAGAAGCAACAAGAACCACCATACAAGTTTATTCATGCTCAAA
GGCATCAGCATATACCCAGAGACCTCAGCAACAAGAAGAAAATCATCAAAGTGGGAGA
GACAAAGATGGTCTGGGAGGGAAGGTGGACGTAGGAACCTGTTGGTGGACGCAGCAGAG
GCTGGCCTGCTAAGCCGAGACAAAGATCCCAGGGGGCCTAGCTCTGGATCTTGTATAGAC
CAATTACCCATCAAAATGGACTATGGGGAAGAACTAAGGAGCCCTATTACAAGCCTGACC
CCTGGGAGAGCAAAACCACTCTCCATCATCTCCAGAGGAGGATGTCATGCTAGGATCC
CTCACCTTCTCAGTGGACTATAACTTCCGAAAAAAGCCCTGGTGGTGAATCCAGGAG
GCCACGGGCTGCCAGTGATGGATGACCAGACCCAGGGATCTGACCCCTACATCAAAATG
ACCATCCTTCTGACAAACGGCATCGGGTGAAGACCAGAGTGCTGCGGAAGACCCTGGAC
CCTGTGTTTGACGAGACCTTACCTTCTATGGCATCCCCTACAGCCAGCTGCAGGACCTG
GTGCTGCACTTCTTGTCTCAGCTTTGACCGCTTCTCTCGGGATGATGTCATTGGCGAG
GTCATGGTGCCACTGGCAGGGGTGGACCCAGCACAGGCAAGGTACAACCTGACCAGGGAC
ATCATCAAAGGAATATCCAGAAGTGCATCAGCAGAGGGGAGTCCAGGTGTCTCTGTCA
TATCAGCCTGTGGCACAGAGAATGACAGTGGTGGTCTCAAAGCCAGACACTTCCGAAG
ATGGATATCACCGGTCTCTCAGNNATCCTTATGTCAAGGTGAACGTCTACTACGGCAGA
AAGCGCATTGCCAAGAAGAAAACCCATGTGAAGAAGTGCACTTTGAACCCATCTTCAAT
GAATCTTTCATCTACGACATCCCCACTGACCTCCTGCCTGATATCAGCATCGAGTTCCTC
GTTATCGACTTCGATCGCACCACCAAGAATGAGGTGGTGGGAGGCTGATCCTGGGGCA
CACAGTGTACAGCCAGTGGTCTGAACACTGGAGAGAGGTCTGCGAGAGCCCCGCAAG
CCTGTGGCCAAGTGGCACAGTCTGAGCGAGTACTAA

```

Clone variation with respect to NM\_152280.4  
144 g=>c;546 t=>c;983 g=>n;984 t=>n;985 a=>n



[View online >](#)

|                                     |  |
|-------------------------------------|--|
| <b>5' Read Nucleotide Sequence:</b> | >OriGene 5' read for NM_152280 unedited<br>TTGTAATACGACTTCACTATAGGGCGGCCGGAATTCGCACGAGGCTTAAGAGCTGAGCG<br>CAGCTGACAACTAGGGGCCGGACCGTCGCAGGAGGCGTCCGCTGGATACCTTCCCCTTC<br>CCTGACCTAGAGCTCTACAGCTGCTGCCTCGGTACTGACCGAGGGTCCCAGAGCTGTCT<br>CACCATTGCAAAAACGTTATAGCAACAGCCTCTGATTACGACATGGCTGAGATCACCAAT<br>ATCCGACCTAGCTTTGATGTGTACCCGGTGGTGGCCGGCCTCATCGGGCCTCTGTGCTG<br>GTGGTGTGTCTCGGTGACCGTCTTTGTCTGGTCATGCTGCCACCAGCAGGCAGAGAAG<br>AAGCACAAAGAACCACCATACAAGTTTATTCACATGCTCAAAGGCATCAGCATATACCCA<br>GAGACCCTCAGCAACAAGAAGAAAATCATCAAAGTGCGGAGAGACAAAGATGGTCTGGG<br>AGGGAAGGTGGACGTAGGAACCTGTTGGTGGACGCAGCAGAGGCTGGCCTGCTAAGCCGA<br>GACAAAGATCCCAGGGGGCTAGCTCTGGATCTTGATAGACCAATTACCCATCAAAATG<br>GACTATGGGGAAGAACTAAGGAGCCCTATTACAAGCCTGACCCCTGNGGAGAGCAAAACC<br>ACCTCTCCATCATCTCCAGAGGAGGATGTCATGCTAGGATCCCTCACCTTCTCAGTGGAC<br>TATAACTCCCAGAAAAAGCCCTGGTGGTACAATCCAGGAAGCCACGGGCTGCCAGTG<br>ATGGATGACCAGACCCAGGGATCTGACCCCTACATCAAATGACCATCCTTCTGACAACG<br>GCATCGGGTGAAGACCAGAGTGCTGG |
| <b>Restriction Sites:</b>           | NotI-NotI  |
| <b>ACCN:</b>                        | NM_152280  |
| <b>Insert Size:</b>                 | 5000 bp  |
| <b>OTI Disclaimer:</b>              | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).   |
| <b>Components:</b>                  | 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).   |
| <b>Reconstitution Method:</b>       | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>  |
| <b>RefSeq:</b>                      | <a href="#">NM_152280.2</a> , <a href="#">NP_689493.2</a>  |
| <b>RefSeq Size:</b>                 | 5103 bp  |
| <b>RefSeq ORF:</b>                  | 1296 bp  |
| <b>Locus ID:</b>                    | 23208  |
| <b>UniProt ID:</b>                  | <a href="#">Q9BT88</a>   |
| <b>Cytogenetics:</b>                | 1q22   |
| <b>Domains:</b>                     | C2   |
| <b>Protein Families:</b>            | 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]