

## Product datasheet for **SC325075**

### SYT2 (NM\_001136504) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SYT2 (NM_001136504) Human Untagged Clone
Tag:	Tag Free
Symbol:	SYT2
Synonyms:	CMS7; MYSPC; SytII
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001136504, the custom clone sequence may differ by one or more nucleotides ATGAGGAACATTTTCAAGAGGAACCAGGAGCCTATTGTGGCTCCTGCCACCACCACCGCC ACGATGCCATTGGACCCGTGGACAACCTCCACTGAGAGTGGGGTCTGGGGAGAGCCAG GAGGACATGTTTGCCAACTGAAGGAGAAGTTATTCAATGAGATAAAACAAGATTCCTTA CCACCCTGGGCACTGATCGCCATTGCTGTGTTGCTGGGCTCCTGCTTCTCACCTGCTGC TTCTGCATCTGCAAGAAATGCTGCTGCAAGAAGAAGAACAAGAAGGAGAAGGGCAAA GGCATGAAGAATGCCATGAACATGAAGGACATGAAAGGGGTGAGGATGACGACGACGCA GAGACAGGCCTGACTGAGGGGAAGGTGAAGGGGAGGAGAGAAAGAGCCAGAGAACCTG GGCAAACCTGCAGTTTTCCCTGGACTATGATTTTCAAGGCTAATCAGCTTACTGTGGCGTT CTGCAGGCTGCTGAACTGCCTGCCTGGACATGGGAGGCACCTCAGACCCATTATGTCAG GTCTTCTCCTTCTGACAAGAAGAAGAAATATGAGACCAAAGTCCATCGGAAGACTG AACCTGCCTTCAATGAAACCTTCACTTCAAGGTGCCATACCAGGAGCTTGGGGCAAA ACTCTGGTGATGGCCATCTATGACTTTGACCGCTTCTCCAACATGACATCATTGGAGAG GTAAAGGTGCCTATGAACACAGTGGACCTCGGCCAGCCATTGAGGAGTGGAGAGACCTG CAAGGCGGGAAAAGGAGGAGCCGGAGAAGCTGGGCGACATCTGCACCTCCCTGCGCTAT GTGCCACGGCCGGAAGCTCACTGTCTGCATCCTGGAGGCTAAGAACCCTAAGAAGATG GACGTGGGCGGCTTTTCAAGCCGTACGTGAAGATCCACCTGATGCAGAATGGCAAGAGG CTCAAGAAGAAGAAGACAACCGTGAAGAAGAAGACCCTGAACCCATACTTCAACGAGTCC TTCAGCTTTGAGATCCCCTTCGAGCAGATTAGAAAAGTCCAGGTAGTGGTACCCTGCTG GACTATGACAAGCTGGCAAGAACGAAGCCATAGGCAAGATCTTCGTGGGAGCAATGCC ACGGGCACAGAGCTGCGGCACTGGTCCGACATGCTGGCCAACCCCGGAGGCCATCGCC CAGTGGCACTCGCTCAAGCCTGAGGAGGAGGTGGATGCACTCCTGGCAAGAACAAG
Restriction Sites:	Please inquire
ACCN:	NM_001136504
OTI Disclaimer:	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).



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<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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_001136504.1</a> , <a href="#">NP_001129976.1</a>
<b>RefSeq Size:</b>	7614 bp
<b>RefSeq ORF:</b>	1260 bp
<b>Locus ID:</b>	127833
<b>UniProt ID:</b>	<a href="#">Q8N9I0</a>
<b>Cytogenetics:</b>	1q32.1
<b>Protein Families:</b>	Secreted Protein, Transmembrane
<b>Gene Summary:</b>	<p>This gene encodes a synaptic vesicle membrane protein. The encoded protein is thought to function as a calcium sensor in vesicular trafficking and exocytosis. Mutations in this gene are associated with myasthenic syndrome, presynaptic, congenital, with or without motor neuropathy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.</p>