

Product datasheet for **SC110031**

Synaptogyrin 1 (SYNGR1) (NM_145731) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Synaptogyrin 1 (SYNGR1) (NM_145731) Human Untagged Clone
Tag:	Tag Free
Symbol:	Synaptogyrin 1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_145731, the custom clone sequence may differ by one or more nucleotides

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ATGGAAGGGGTGCGTACGGAGCGGGCAAAGCCGGGGCGCCTTCGACCCCTACACCCTGGTCCGGCAGC  
CGCACACCATCCTGCGCGTCTGTCTTTGGCTGTTCTCCATAGTGGTGTTCGGCTCCATCGTGAACGAGGG  
CTACCTCAACAGCGCCTCCGAGGGGAGGAGTTCTGCATCTACAACCGCAACCCCAACGCCTGCAGCTAT  
GGCGTGGCCGTGGGCGTCTCGCCTTCTCACCTGCCTGCTGTACCTGGCCCTGGACGTGTAATCCCGC  
AGATCAGCAGCGTCAAGGACCGCAAGAAAGCCGTCTGTCCGACATCGGTGTCTCGGCCTTCTGGGCTTT  
CCTCTGGTTCGTGGATTCTGCTACCTGGCCAACCAAGTGGCAGGTCTCCAAGCCCAAGGACAACCCACTG  
AACGAAGGGACGGACGCAGCCCGGGCCGCATCGCCTTCTCCTTTTTCTCCATCTTACCTGGAGCCTGA  
CCGCAGCCCTGGCCGTGCGGAGATTCAAGGACCTAAGCTTCCAGGAGGAGTACAGCACACTGTTCCCTGC  
CTCGGCACAGCCGTAG
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_145731 unedited NGGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGCAATTCGGCACCAGGGCGC GCGCCGAGCGGGGGCACCAGCGGGGTGCAGCCACGATGGAAGGGGGTGCCTACGGAGCG GGCAAAGCCGGGGCGCCTTCGACCCCTACACCCTGGTCCGGCAGCCGCACACCATCCTG CGCGTCGTGTCTTGGCTGTTCTCCATAGTGGTGTTCGGCTCCATCGTGAACGAGGGCTAC CTCAACAGCGCCTCCGAGGGGGAGGAGTTCTGCATCTACAACCGCAACCCCAACGCCTGC AGCTATGGCGTGGCCGTGGGCGTCTCGCCTTCCCTCACCTGCCTGCTGTACCTGGCCCTG GACGTGTACTTCCCGCAGATCAGCAGCGTCAAGGACCGCAAGAAAGCCGTCTGTCCGAC ATCGGTGTCTCGGCCTTCTGGGCTTTCCTCTGGTTCGTGGGATTCTGCTACCTGGCCAAC CAGTGGCAGGTCTCCAAGCCCAAGGACAACCCACTGAACGAAGGGACGGACGCAGCCCGG GCCCCATCGCCTTCTCCTTTTCTCCATCTTACCTGGAGCCTGACCGCAGCCCTGGCC GTGCGGAGATTCAAGGACCTAAGCTTCCAGGAGGAGTACAGCACACTGTTCCCTGCCTCG GCACAGCCGTAGGCCTCCCGGCTTGACAGAGCCGGCAGCCCTGTATACCCCTGGCAGTG AGGTGGCAGGAGCAGCCTAGTGCAGAAATGTCCAAGATGCCAGGGCATGCANGGCAANT GGAANGGCTGGCTTGANGACCAAATTNCAGGNTCTCCACTGACTATTTCCTTCCACC GCTNCTCATGATTCTNTCATGCCGTATTTCATTAGTAAAACATTAATTGAGCAAAANAA ANAANNAAAACCTCGCTCTAGATGGGGGGCGCGTCTATAG
Restriction Sites:	NotI-NotI
ACCN:	NM_145731
Insert Size:	3760 bp
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).
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:	<ol style="list-style-type: none"> 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_145731.2 , NP_663783.1
RefSeq Size:	1329 bp
RefSeq ORF:	576 bp
Locus ID:	9145
UniProt ID:	O43759
Cytogenetics:	22q13.1
Domains:	MARVEL
Protein Families:	Transmembrane

Gene Summary:

This gene encodes an integral membrane protein associated with presynaptic vesicles in neuronal cells. The exact function of this protein is unclear, but studies of a similar murine protein suggest that it functions in synaptic plasticity without being required for synaptic transmission. The gene product belongs to the synaptogyrin gene family. Three alternatively spliced variants encoding three different isoforms have been identified. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1b) has a distinct 3' UTR and contains an alternate 3' coding exon, as compared to variant 1a. The encoded isoform (1b) has a distinct C-terminus, compared to isoform 1a.