

Product datasheet for **SC117218**

Synaptogyrin 2 (SYNGR2) (NM_004710) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Synaptogyrin 2 (SYNGR2) (NM_004710) Human Untagged Clone
Tag:	Tag Free
Symbol:	Synaptogyrin 2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117218 sequence for NM_004710 edited (data generated by NextGen Sequencing) ATGGAGAGCGGGGCTACGGCGCGGCAAGGCGGGCGGCTCCTTCGACCTGCGGCGCTTC CTGACGCAGCCGAGGTGGTGGCGCGCCGTGTGCTTGGTCTTCGCCTTGATCGTGTT TCCTGCATCTATGGTGAGGGCTACAGCAATGCCACGAGTCTAAGCAGATGTAAGTGCCTG TTCAACCGCAACGAGGATGCCTGCCGCTATGGCAGTGCCATCGGGGTGCTGGCCTTCCTG GCCTCGGCTTTCTTGGTGGTGCAGCGTATTTCCCCAGATCAGCAACGCCACTGAC CGCAAGTACCTGGTCATTGGTGACCTGCTTCTCAGCTCTTGGACCTTCTGTGGTTT GTTGGTTTCTGCTTCTCACCACCAACAGTGGCAGTCACCAACCCGAAGGACGTGCTGGT GGGCGGACTCTGTGAGGGCAGCCATCACCTTCAGCTTCTTTCCATCTTCTCCTGGGT GTGCTGGCTCCCTGGCCTACCAGCGCTACAAGGCTGGCGTGGACGACTTCATCCAGAAT TACGTTGACCCCACTCCGGACCCCAACACTGCCTACGCCCTCCTACCCAGGTGCATCTGTG GACAACTACCAACAGCCACCCTTACCCAGAACGCGGAGACCACCGAGGGCTACCAGCCG CCCCCTGTGACTGA

Clone variation with respect to NM_004710.3
249 c=>t



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_004710 unedited NCAAGTCAAATTGTATACGACTCACTAAGGGCGGCCGGAATTCGCACGAGGGACATGG AGAGCGGGGCCTACGGCGCGGCCAAGGCGGGCGGCTCCTTCGACCTGCGGCGCTTCTGA CGCAGCCGAGGTGGTGGCGCGCCGTGTGCTTGGTCTTCGCCTTGATCGTGTCTCTCT GCATCTATGGTGAGGGCTACAGCAATGCCACGAGTCTAAGCAGATGACTGCGTGTTC ACCGCAACGAGGATGCCTGCCGTATGGCAGTGCATCGGGGTGCTGGCCTTCTGGCCT CGGCTTTCTTCTGGTGGTGCAGCGTATTTCCCCAGATCAGCAACGCCACTGACCGCA AGTACCTGGTCATTGGTGACCTGCTCTTCTCAGCTCTCTGGACCTTCTGTGTTTGTG GTTTCTGCTTCTCACCACAGTGGGAGTACCAACCCGAAGGACGTGCTGGTGGGG CCGACTCTGTGAGGGCAGCCATCACCTTCAGCTTCTTTCCATCTTCTCTGNGGTGTGC TGGCTCCCTGGCTACCAGCGCTACAAGGCTGGCGTGGACGACTTCATCCAGAATTACG TTGACCCACTCCGGACCCCAACTGCCTACGCTCCTACCCAGGTGCATCTGTGGACA ACTACCAACAGCCACCCTTACCAGAACGCGGAGACCACGNAGGCTACCAGCCGCCN CTGTGACTGAGCGGCGTTAGCGTGGGAAGGGGACAGAGAGGGCCCTCCCTCTGCC TGGACTTTNCCATGAGCCCTCTGGAAGTGNCCAGCCCTCTTTNCACTGTTCCANTCTG TGACGCTGAACACAGCTAAGGAGCTCATACCTGGCGGGGCTGGCAGAGCACACCCAGT GCCTGTGCCAGAGGGCTTCATCAC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_004710 unedited GACCGCGCCGCATATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTGAATGAAAAACATT TATTCGTCTCCAACAGCATCCCAGGCCGGGCATCTCCCCACGATTTATAATACT CGGCACAGACAGAGTCTGGGAGCCATGGGGACCCCTGCCCTCCCAGGTTCTAAGTA ACAACGCAGAAATTTACATAAAGCTGGGTGTGTGTCAGGCAAAGCCCTCCCTGCTGCC AGGGTGGGAGCAAGGAGGAAGTGCCATGAGCACAGCCCGCCCTCACACCAGGGAGG CAGCCCAGAGGCCACCGCACAGGGTGGTGGCCCCAGATCATACAGAGTGGGCACAGG GGAAGCAAACCTGAGTGAGGACACAAGACCTGGTCCGGCTCCGCTGCACAGGGCAGGTG TGATGGCCCCACGAGTCTTTGGCAGAGAACGCCAGATAATAGCGGCTCCACGGCCTGA CCCGGGCCGGGCGAAGCTGAGGCACTTGTGAGTACCCATGGGCACCTGCTGGCTTCTA ACCCCTGCAGGCGGGCTGACGTCATTCAAACCACGAAAACACTACTAAAAACCTCTCT AAAATGCCCTGAAAGGAAGAGCGGACTAACTGAGTCCCTATGCCACGCCCTTGGGTGC GGTTCTCGATTCCCCGCTGCTATTCAGCCACTTCATAGGTTACTCTCTACACCATA CCCGACATTACCCTGGACTTGAATTTTCTATTAGCCCACGCAATCCTACTTGTCTTGG CGCCGACCTCTGATTGCTCTCGCTTCCCTCCCTCCGTGACCACCCAGTCCCAACT ACATCTATCCGCTCCCTAATCTCGATTCTAACGCTTCCCTTCACGTGGTAATCCCTATC AGCCCAATAGATACACAT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_004710
Insert Size:	1570 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:

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_004710.3](#), [NP_004701.1](#)

RefSeq Size: 1694 bp

RefSeq ORF: 675 bp

Locus ID: 9144

UniProt ID: [O43760](#)

Cytogenetics: 17q25.3

Domains: Synaptogyrin

Protein Families: Transmembrane

Gene Summary: This gene encodes an integral membrane protein containing four transmembrane regions and a C-terminal cytoplasmic tail that is tyrosine phosphorylated. The exact function of this protein is unclear, but studies of a similar rat protein suggest that it may play a role in regulating membrane traffic in non-neuronal cells. The gene belongs to the synaptogyrin gene family. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2016]

Transcript Variant: This variant (1) encodes the longer isoform (1).