

Product datasheet for **SC125870**

Synaptophysin (SYP) (NM_003179) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Synaptophysin (SYP) (NM_003179) Human Untagged Clone
Tag:	Tag Free
Symbol:	Synaptophysin
Synonyms:	MRX96; MRXSYP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_003179 edited
GCCCCCTGCATTGCTGATGCTGCTGCTGGCGGACATGGACGTGGTGAATCAGCTGGTGGC
TGGGGGTCAAGTCCGGGTGGTCAAGGAGCCCCTCGGCTTTGTGAAGGTGCTGCAATGGGT
CTTCGCCATCTTCGCCTTTGCCACATGCCGCAGCTACAGTGGGGAGCTCCAGCTGAGCGT
GGATTGTGCCAACAGACCGAGAGTGACCTCAGCATCGAGGTCGAGTTCGAGTACCCCTT
CAGGCTGCACCAAGTGTACTTTGATGCACCCACCTGCCGAGGGGGCACCACCAAGTCTT
CTTAGTTGGGGACTACTCCTCGTCAGCCGAATTTTGTACCCGTGGCCGTGTTTGCCTT
CCTCTACTCCATGGGGGCTCTGGCCACCTACATCTTCTGCAGAACAAGTACCGAGAGAA
TAACAAAGGGCCCATGCTGGACTTTCTGGCCACGGCTGTGTTTCGCCTTCATGTGGCTAGT
TAGCTCATCGGCATGGGCCAAGGGGCTGTGAGATGTGAAGATGGCCACAGACCCAGAGAA
CATTATCAAGGAGATGCCTGTCTGCCGCCAGACAGGGAACACATGCAAGGAGCTGAGAGA
CCTTGTGACCTCGGGACTCAACACCTCGGTGGTGTTCGGCTTCTGAACCTGGTGTCTG
GGTCGGCAACCTGTGGTTCGTGTTAAGGAGACAGGCTGGGCCGCCCGTTCCTGCGCGC
GCCTCCCGGGCCCGGAGAAAACACCGGCACCCGGGGACGCCTACGGCGATGCAGGCTA
CGGGCAGGGCCCCGGCGGTACGGGCCAGGATTCTACGGGCCTCAGGGCGGCTACCA
GCCTGACTATGGTCAACAGCCGCGAGCGGTGGCAGTGGCTACGGGCCTCAGGGGACTA
TGGGCAGCAAGGCTACGGCCCGCAGGGTGCACCCACCTCCTTCTCCAATCAGATGTAGTC
TGGTCAGTGAAGCCCAGGAGGACCTGGGGGGGCAAGAGCTCAGGAGAAGGCCTGCCCC
CTTCCCACCCCTATACCTAGGTCTCCACCCCTCAAGCCAGGAGACCCTGTCTTTGCTGT
TTATATATATATATATATATAAAATCTATTTATCTGTCTGAGCCCTGCCCTCACTC
CACTCCCTCATCCAAGTGGCCAGTCTTGTAGTGGGCCCTCTTACCCCGTCCCT
TTCCCTGCATCCCTTGGCCCTCTCTGTTACCCTCCCTGTCCCTGAGGTTAAGGGGAT
CTAAAAGGAGGACAGGGAGGGAACAGACCTCGGCTGTGTTGGGGAGGGTGGCGGTACTT
AGACTCTCTCTCTCTCCCTCCTCCACTCTCCAACTCTGGCCTTGGTTCCTCCAGCAAT
GCCTGCCTGAACAAGGCGGTTAGGAAAATCCAACCTCCAGGGTTAAAGAAAGGCAGAGAT
TGGGGGGGCTTGGGGTAGAGAGGACAGTTTAGGACCCAAGGTGGTCTTGAGAGGAGGTG
TGGAGTGGAGGGGTGAGCAGGGGGTGGGTTCCAGACAGAGTGGATCTGGAGTCTGAAG
GAGAGGAGTGGCTAGAGCATTCTGGGGTGGGGCTTGAAGGGCGCTGAGGGCAGGGTTC
TAGAAGGGGGCAGGCTTTAAGCGAGGCAGAATGGTGGGCTCCAGAGTGGTGGTCTTGG
ATTGGTACCAGAGCCTATGGAAAGGGTGTGGCTTGAACATTTGGGAGACTGAGCTTGAT
TCTAAAGGGGACAGATCTTGAGCAAGGCAAGAAGTGGGATTCAGGAATGGCCAAGCCAG
GGTTCAGACAGGGTGGGGCTTAGAATGGGGCTTCCATGGTGGTTTCAGAAAGGGCAGCC
CCTCCCATGGTGCAGTGAAGAAAATGTTTTACAATGGCTGGGTTTGGGCAGTGGAGAGG
GGACTTGGATAGGAGCTTCCAGATGGGTTTTGTTAGGGGTGGGGGAGAATGGCTCTGGCT
ACGACTTGGGACGGAAGTGGCCTGAGAAGAGTCGAGTGATATGGCTTGTAGGGTGAAGCG
TGGGATCCAGAGAGAAGCACCCACACACACCCTTCCCCTCCCGTATGAAACAG
CTAGGTTAATAGGAGGACAGAACCAACGGGTCTGTGGGACTGGCCACCCCTCTTCCCC
TTCCCCTGCGCCCTCCCTCCCTCCACACCTCCACCCGCTCTGGGGTGGTGGAGGCTGG
TCTGGAGCCCTATCCTGCACCTCTGCTATGTCTGTGATGTCAGTAGTGCCTGTGATCG
TGTGTTGCCATTTGTCTGGCTGTGGCCCTCCTTCTCCCTCCAGACCCCTACCCCTTTC
CCAAACCTTCGTTATTGTTCAAAGAACCCCTCCCAAGGAAGAACAAATATGATTCT
CCTCTCCAAATAAACTCCTAACCCACTAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_003179 unedited GTTCAGGATATTTGTCAATACGCACNCACTATGAGGGCGGCCGCGTAATCACATCTGGTA CCGGTGCCGGAATCCCAGGATGCCCCCTGCATTGCTGATGCTGCTGCTGGCGGACATGG ACGTGGTGAATCAGCTGGTGGCTGGGGTCAAGGAGCCCCCTCGGCT TTGTGAAGGTGCTGCAATGGGTCTTCGCATCTTCGCCTTTGCCACATGCGGCAGCTACA GTGGGGAGCTCCAGCTGAGCGTGGATTGTGCCAACAAGACCGAGAGTGACCTCAGCATCG AGGTCGAGTTCGAGTACCCCTTCAGGCTGCACCAAGTGTACTTTGATGCACCCACCTGCC GAGGGGGACCACCAAGGTCTTCTTAGTTGGGGACTACTCCTCGTCAGCCGAATTCCTTG TACCCTGGCCGTGTTTGCCTTCTACTCCATGGGGCTCTGGCCACCTACATCTTCC TGCAGAACAAGTACCGAGAGAATAACAAAGGGCCCATGCTGGACTTTCTGGCCACGGCTG TGTTCCGCTTCATGTGGCTAGTTAGCTCATCGGCATGGGCCAAGGGGCTGTCAGATGTGA AGATGGCCACAGACCCAGAGAACATTATCAAGGAGATGCCTGTCTGCCGCAGACAGGGA ACACATGCAAGGAGCTGAGAGACCTTGTGNACCTCGGACTAACACCTCGGTGGTGTTCGG CTTCTGAACCTGGTCTCTGGGTGNGCAACCTGTGGTTCGTGTTAAAGAACAGGCTGG GCCGCCCCGTTTCTGCGCGCCCTCCGGCGCCCCGAGAAACACCGGCACCGGGGACGCC TACNGCGATGCANGCTACGGGCAGGGCCCCCGGGTACGGGCCCCAGGTTCTACGGCC TTAGGCCGCTACAACCCGACTATGGCAACCACC
Restriction Sites:	Please inquire
ACCN:	NM_003179
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_003179.2 , NP_003170.1
RefSeq Size:	2449 bp
RefSeq ORF:	942 bp
Locus ID:	6855
UniProt ID:	P08247
Cytogenetics:	Xp11.23
Protein Families:	Secreted Protein, Transmembrane

Gene Summary:

This gene encodes an integral membrane protein of small synaptic vesicles in brain and endocrine cells. The protein also binds cholesterol and is thought to direct targeting of vesicle-associated membrane protein 2 (synaptobrevin) to intracellular compartments. Mutations in this gene are associated with an X-linked form of cognitive disability. [provided by RefSeq, Jul 2017]