

Product datasheet for **RG213875**

Synaptogyrin 1 (SYNGR1) (NM_145738) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Synaptogyrin 1 (SYNGR1) (NM_145738) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: Synaptogyrin 1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG213875 representing NM_145738
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTGACCTTAGAGTTTGGGATTCTGGAATTCGATCCTTCATGGATAGGCAGCTGGACACAGAGGTCGT
 GGGTGAGCTGGAGGAGCAGGCCCGGATGTGAGCTGTTCTCCATAGTGGTGTTCGGCTCCATCGTGAACGA
 GGGCTACCTCAACAGCGCCTCCGAGGGGAGGAGTTCTGCATCTACAACCGCAACCCCAACGCCTGCAGC
 TATGGCGTGGCCGTGGGCGTGCTCGCCTTCCTCACCTGCCTGCTGTACCTGGCCCTGGACGTGTACTTCC
 CGCAGATCAGCAGCGTCAAGGACCGCAAGAAAGCCGTCCTGTCCGACATCGGTGTCTCGGCCTTCTGGGC
 TTCTCTGTGTTCTGTGGGATTCTGCTACCTGGCCAACCAAGTGGCAGGTCTCCAAGCCCAAGGACAACCCA
 CTGAACGAAGGGACGGACGCAGCCCGGGCCGCCATCGCCTTCTCCTTTTCTCCATCTTCACCTGGAGCC
 TGACCGCAGCCCTGGCCGTGCGGAGATTCAAGGACCTAAGCTTCCAGGAGGAGTACAGCACACTGTTCCC
 TGCCTCGGCACAGCCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG213875 representing NM_145738
 Red=Cloning site Green=Tags(s)

MLTLEFGILEFDPSWIGSWTQRSWVSWRSRPGCELSIVVFGSIVNEGYLNSASEGEEFCIYNRNPACCS
 YGVAVGVLAFLTCLLYLALDVYFPQISSVKDRKKAVLSDIGVSAFWAFLWFGFCYLANQWQVSKPKDNP
 LNEGTDAAARAAIAFSFFSIFTWSLTAALAVRRFKDLSFQEEYSTLFPASAQP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:



ACCN: NM_145738

ORF Size: 576 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_145738.2](#), [NP_663791.1](#)

RefSeq Size: 1307 bp

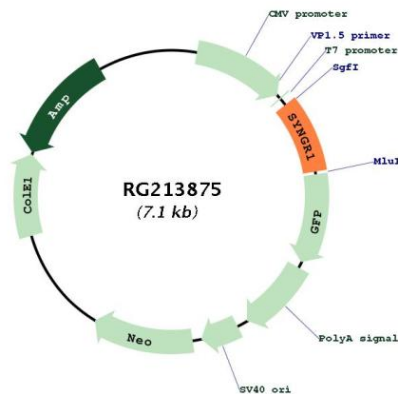
RefSeq ORF: 579 bp

Locus ID: 9145

UniProt ID: [O43759](#)

Cytogenetics:	22q13.1
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]

Product images:



Circular map for RG213875