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Product datasheet for RG228484

Synaptotagmin 14 (SYT14) (NM_001146264) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Synaptotagmin 14 (SYT14) (NM_001146264) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Synaptotagmin 14
Synonyms:	SCAR11; sytXIV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>RG228484 representing NM_001146264
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGAGCGCATCATGGCGATTGAAGGTGGAGAGAGAACCTGTGGAGTACATGAACTTATCTGTATTAG
AAAAGATAGGGTATTTCTCTGTGGCCAGGCTGGAGTACAGTGGCACCATCTTGGCTCACTGCAACTTCCG
CCTCCTGGGTTCAAACGATTCTTCTGCCTCAGCATCCCAAGTAACTGGGACTACAGTATCTCCAGAGGCA
GTTGGATTTTTGTCAGCTGTTGGGGTGTTTATTATCTTGATGCTGCTCCTTTTTCTCTATATTAATAAGA
AGTTCTGTTTTGAAAATGTTGGCGGGTTTCCAGATCTTGGTTCAGAATACAGTACAAGGAAGAATTCACA
AGATAAAATTTATAATTCCTACATGGACAAAGATGAGCATGGTTCATCCTCTGAAAGTGAAGATGAAGCG
CTGGGTAAATATCATGAGGCCTTATCCAGAACACACAATTCCAGACTACCACTGGCAGATTCTAGACAAA
GGAACTATGCTTGGGAAACAAGGCAGAAATACAGTCCTCTATCGGCAGAGTATGATGGATACAGTAGTGA
AGCATCAATAGATGAAGGAAACTGCATTCAGAGAATGAGAAGAACACCCCCGCTGGATGAATTGCAGCCA
CCACCATATCAGGATGACAGTGGTTCTCCCCATCTGTCATGTACACCCTCAGAAATTGGGGACAGTAAAT
GTGAATTTTCCCACTGCAGCAACAGTCCAAGATGCTCATATAACAAGTGCCCAAGTGAAGGAAGCACAGG
TCATGAAATAGAAAGTTTTCATAATAAAGGATATGAAGAAGATGTTCCAAGTGACAGCACTGCAGTCCTG
AGCCCTGAAGATATGTCAGCTCAAGGATCATCTTCGCAGCTTCCTAAACCTTTTGATCCTGAGCCAGAAG
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TGTCGTGTAGTGAAAGTACATCCTCATGTCAGTCTCTTGAACATGGCTCAGTTCCAGAAATTCTTATTGG
CCTGCTTTATAATGCCACAACTGGAAGACTATCAGCAGAAGTGATAAAAGGCAGCCACTTCAAAAATTTG
GCAGCAAACAGACCACCCAATACATATGTTAAGTTAACTCTACTGAATTCCATGGGTCAAGAGATGTCCA
AATGCAAGACATCCATCCGCAGAGGGCAGCCAAATCCAGTATATAAGGAAACTTTTGTCTTTCAAGTGGC
CCTATTTCAGCTTTCTGATGTGACACTCATACTGTCTGTGTATAACAAACGCAGCATGAAAAGAAAAGAG
ATGATAGGCTGGATTTCTTTAGGTCTCAACAGCTCTGGAGAAGAAGAACTCAATCACTGGACTGAAATGA
AAGAGTCAAAAGGACAGCAAGTATGTAGATGGCATGCGTTGCTAGAGTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

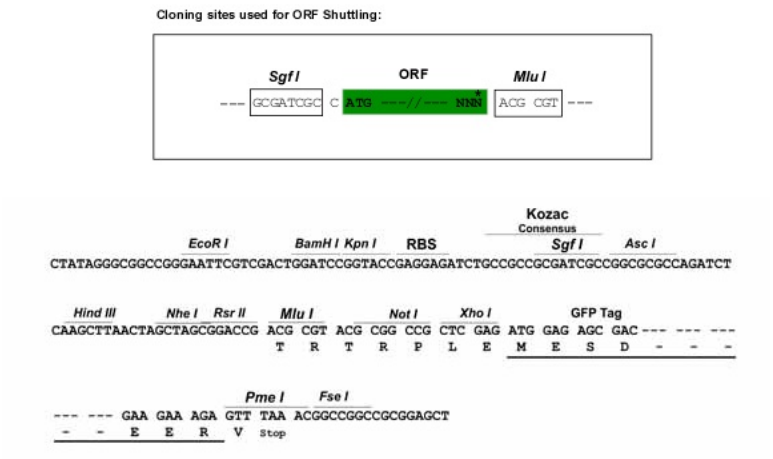
>RG228484 representing NM_001146264
Red=Cloning site Green=Tags(s)

MASASWRLKVEREPVEYMNLSVLEKIGYFSVARLEYSGTILAHCNFRLLGSNDSSASASQVTGTTVSPEA
VGFLSAVGVFIILMLLLFLYINKKFCFENVGGFPDLGSEYSTRKNSQDKIYNSYMDKDEHGSSSESEDEA
LGKYHEALSRTHNSRLPLADSRQRNYAWETRQKYSPLSAEYDGYSSEASIDEGNCIQRMRRTPPLDELQP
PPYQDDSGSPHLSCTPSEIGDSKCEFSHCSNSPRCSYNKCPSEGSTGHEIESFHNKGYEEDVPSDSTAVL
SPEDMSAQGSSSQLPKPFDPEPEAKYGTLDVTFDYDSQEQKLLVTVTAVTDIPTYNRTGGNSWQVHLVLL
PIKKQRAKTSIQRGPCPVFTETFKFNHVESEMIGNYAVRFRLYGVHRMKKEKIVGEKIFYLTKLNLQGKM
SLPVILEPSYNHSGCDSQMSVSEMSCSESTSSCQSLEHGSVPEILIGLLYNATTGRLSAEVIKGSHFKNL
AANRPPNTYVKLTLLNSMGQEMSKCKTSIRRGQPNPVYKETFVFQVALFQLSDVTLILSVYNKRSMKRKE
MIGWISLGLNSSGEEELNHWTEMKESKGQQVCRWHALLES

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

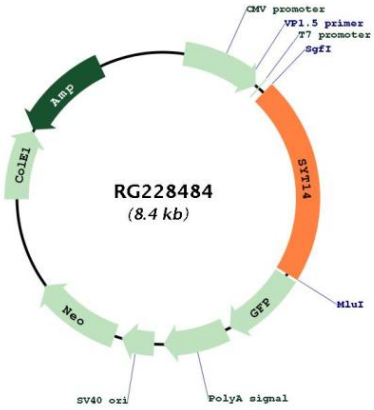
Cloning Scheme:



ACCN:	NM_001146264
ORF Size:	1800 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_001146264.3
RefSeq Size:	5110 bp
RefSeq ORF:	1803 bp
Locus ID:	255928
Cytogenetics:	1q32.2
Protein Families:	Transmembrane

Gene Summary: This gene is a member of the synaptotagmin gene family and encodes a protein similar to other family members that mediate membrane trafficking in synaptic transmission. The encoded protein is a calcium-independent synaptotagmin. Mutations in this gene are a cause of autosomal recessive spinocerebellar ataxia-11 (SCAR11), and a t(1;3) translocation of this gene has been associated with neurodevelopmental abnormalities. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is located on the long arm of chromosome 4. [provided by RefSeq, Dec 2011]

Product images:



Circular map for RG228484