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Product datasheet for SC313987

Synaptotagmin 14 (SYT14) (NM_153262) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Synaptotagmin 14 (SYT14) (NM_153262) Human Untagged Clone

Tag: Tag Free

Symbol: Synaptotagmin 14

Synonyms: SCAR11; sytXIV

Vector: pCMV6 series

Fully Sequenced ORF:

>NCBI ORF sequence for NM_153262, the custom clone sequence may differ by one or more nucleotides

ATGGCGATTGAAGGTGGAGAGAGAACCTGTGGAGTACATGAACTTATCTGTATTAGAAAA
GTATCTCCAGAGGCAGTTGGATTTTTGTCAGCTGTTGGGGTGTTTATTATCTTGATGCTG
CTCCTTTTTCTCTATATTAATAAGAAGTTCTGTTTTGAAAATGTTGGCGGGTTTCCAGAT
CTTGGTTCAGAATACAGTACAAGGAAGAATTCACAAGATAAAATTTATAATTCCTACATG
GACAAAGATGAGCATGGTTCATCCTCTGAAAGTGAAGATGAAGCGCTGGGTAAATATCAT
GAGGCCTTATCCAGAACACACAATTCCAGACTACCACTGGCAGATTCTAGACAAAGGAAC
TATGCTTGGGAAACAAGGCAGAAATACAGTCCTCTATCGGCAGAGTATGATGGATACAGT
AGTGAAGCATCAATAGATGAAGGAAACTGCATTCAGAGAATGAGAAGAACACCCCCGCTG
GATGAATTGCAGCCACCACCATATCAGGATGACAGTGGTTCTCCCCATCTGTCATGTACA
CCCTCAGAAATTGGGGACAGTAAATGTGAATTTTCCCACTGCAGCAACAGTCCAAGATGC
TCATATAACAAGTGCCCAAGTGAAGGAAGCACAGGTCATGAAATAGAAAGTTTTCATAAT
AAAGGATATGAAGAAGATGTTCCAAGTGACAGCACTGCAGTCCTGAGCCCTGAAGATATG
TCAGCTCAAGGATCATCTTCGCAGCTTCCTAAACCTTTTGATCCTGAGCCAGAAGCTAAA
TATGGCACACTGGATGTGACTTTTGACTATGACTCACAAGAACAGAAGCTTCTGGTAACA
GTGACAGCTGTCACAGACATCCCAACATATAACAGGACAGGTGGCAACTCATGGCAAGTA
CACCTTGTTCTTCTACCTATAAAGAAACAGAGAGCAAAAACCAGCATCCAGAGAGGACCA
TGCCCTGTCTTCACAGAAACATTTAAATTTAATCATGTTGAATCTGAGATGATTGGAAAT
TATGCAGTTCGGTTTAGACTGTATGGTGTACATCGCATGAAAAAAGAAAAGATTGTGGGG
GAAAAGATTTTTTATTTAACAAAATTGAATCTTCAAGGGAAAATGTCATTGCCTGTGATA
TTGGAACCTTCTTACAATCATTCTGGCTGTGACTCCCAAATGAGCGTGTCAGAAATGTCG
TGTAGTGAAAGTACATCCTCATGTCAGTCTCTTGAACATGGCTCAGTTCCAGAAATTCTT
ATTGGCCTGCTTTATAATGCCACAACTGGAAGACTATCAGCAGAAGTGATAAAAGGCAGC
CACTTCAAAAATTTGGCAGCAAACAGACCACCCAATACATATGTTAAGTTAACTCTACTG
AATTCCATGGGTCAAGAGATGTCCAAATGCAAGACATCCATCCGCAGAGGGCAGCCAAAT
CCAGTATATAAGGAAACTTTTGTCTTTCAAGTGGCCCTATTTCAGCTTTCTGATGTGACA
CTCATACTGTCTGTGTATAACAAACGCAGCATGAAAAGAGAAGAGATGATAGGCTGGATT
TCTTTAGGTCTCAACAGCTCTGGAGAAGAAGAACTCAATCACTGGACTGAAATGAAAGAG
TCAAAAGGACAGCAAGTATGTAGATGGCATGCGTTGCTAGAGTCA

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Restriction Sites:	Please inquire
ACCN:	NM_153262
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_153262.1, NP_694994.1
RefSeq Size:	2960 bp
RefSeq ORF:	1668 bp
Locus ID:	255928
UniProt ID:	Q8NB59
Cytogenetics:	1q32.2
Domains:	C2
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]
Transcript Variant: This variant (4) lacks two exons in the coding region and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (4) is shorter and has a distinct N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.