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Product datasheet for SC115104

VAMP2 (NM_014232) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VAMP2 (NM_014232) Human Untagged Clone
Tag:	Tag Free
Symbol:	VAMP2
Synonyms:	NEDHAHM; SYB2; VAMP-2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115104 sequence for NM_014232 edited (data generated by NextGen Sequencing) ATGTCTGCTACCGCTGCCACGGCCCCCCCTGCTGCCCCGGCTGGGGAGGGTGGTCCCCCT GCACCCCCTCCAAACCTCACCAGTAACAGGAGACTGCAGCAGACCCAGGCCCAGGTGGAT GAGGTGGTGGACATCATGAGGGTGAACGTGGACAAGGTCCTGGAGCGAGACCAGAAGCTG TCGGAGCTGGACGACCGTGCAGATGCACTCCAGGCGGGGGCCTCCCAGTTTGAAACAAGC GCAGCCAAGCTCAAGCGCAAATACTGGTGGAAAAACCTCAAGATGATGATCATCTTGGGA GTGATTTGCGCCATCATCCTCATCATCATCATAGTTTACTTCAGCACTTAA Clone variation with respect to NM_014232.2

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014232 unedited
TCTTGGCATATTTGNAATCACGACTTCACTATAGGNCGGCACGCGCAATTCGGCACGAGG
CCAGTCGGAGCCGCGCGAGCCGCCGCCGCCATCACTGCCGCTGCCAAGTCCTCCACCCGC
TGCCCCCGCCATGTCTGCTACCGCTGCCACGGCCCCCCCTGCTGCCCCGGCTGGGGAGGG
TGGTCCCCCTGCACCCCCTCCAAACCTCACCAGTAACAGGATACTGCAGCAGACCCAGGC
CCATGTGGATGAGGTGGTGGACATCATGAGGGTGAACGTGGACAAGGTCCTGGAGCGAGA
CCAGAAGCTGTCGGAGCTGGACGACCGTGCAGATGCACTCCAGGCGGGGGCCTCCCAGTT
TGAAACAAGCGCAGCCAAGCTCAAGCGCAAATACTGGTGGAAAAACCTCAAGATGATGAT
CATCTTGGGAGTGATTTGCGCCATCATCCTCATCATCATCATAGTTTACTTCAGCACTTA
AATCCCCGAGGAGTCTGCCCTGCCTAGAGAAGGGCCTCTCCCCCAACCCTCAGCCGTTCC
TCCACCTCTCAGCCATATCTTTCAGCCCCCCCTCCCCTGGATCCGTGTGTGTGTGTGTCC
GTGTGTGTGTCCCCCTGTAAATAGCCAGCTGTTATTTATACATATATAATATTATATATA
TTTGGTCTGTTTGTAGTTTTATTACTAGATGATTTTTCCGGTTGTCCTTAACACCCCTTC
CTGAGGTTCCCTTCACCCCTCTCTCTTGCCTTACTTCCCTTTCCCTTTCTTCCTGACTAG
CCCCAAAGTCCCTTCATTTGCATCTGCTATGCAATAGTCCCTCTCCTTTCCTTCTNCTNC
CCTCAGATTTAGCTGATCCTTCCTNCCACCCTGGNCCTTCCTTTNCTCTTTNCTNCTNAC
TCTNCCCGTCATGCTCCCTCTGCCCCGGCCTNNAAAANANNANNAANNNNANNNNNNNNN
NANAAAA

Restriction Sites: NotI-NotI

ACCN: NM_014232

Insert Size: 1190 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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

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_014232.1, NP_055047.1

RefSeq Size:	2159 bp
RefSeq ORF:	351 bp
Locus ID:	6844
UniProt ID:	P63027
Cytogenetics:	17p13.1
Domains:	synaptobrevin
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
Protein Pathways:	SNARE interactions in vesicular transport
Gene Summary:	The protein encoded by this gene is a member of the vesicle-associated membrane protein (VAMP)/synaptobrevin family. Synaptobrevins/VAMPs, syntaxins, and the 25-kD synaptosomal-associated protein SNAP25 are the main components of a protein complex involved in the docking and/or fusion of synaptic vesicles with the presynaptic membrane. This gene is thought to participate in neurotransmitter release at a step between docking and fusion. The protein forms a stable complex with syntaxin, synaptosomal-associated protein, 25 kD, and synaptotagmin. It also forms a distinct complex with synaptophysin. It is a likely candidate gene for familial infantile myasthenia (FIMG) because of its map location and because it encodes a synaptic vesicle protein of the type that has been implicated in the pathogenesis of FIMG. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (1) encodes isoform 1.