

Product datasheet for **RN202600**

Vstm5 (NM_001144870) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Vstm5 (NM_001144870) Rat Untagged Clone

Tag: Tag Free

Symbol: Vstm5

Mammalian Cell Selection: Neomycin

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >RN202600 representing NM_001144870
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGCCTCCGCGGTGCGTGGAAGGACCCAAGGCATCCCGCTGGGGCTGCTCGGTTCTGGGTAGCTA
CCGCCCCTGTCTGCAGAGTCAGGGTGTGTCACGTACATTCCACGGTCGGCCATCAATGCCACTGTCCA
AGAGGACATCCTGCTGTCTAGTGGACTACATCTGCCACGGCTGCCACTATTGAGTGGGAGTACACACCT
AACTGGGGTGTGCAGAAGATCGTGGAGTGGAAACAGGGACCCAGCCAATGTCTCCAAAGCCACAGAG
ACAGAGTCTGCACCTTCGACAATGGCTCCATCCAGCTTTTCAGTGTGGGTGTGAGAGATTCTGGCTACTA
TGTATACCGTACAGAGCACCCGGGGAGCAGCCAGTCCGGCACCATCTTGCTACATGTGTCTGAGATC
CGCTATGAGGACCTCCACTTCGTCGCTGTCTTCTTGCTCTGCTTGCTGCTGTGGCTGTGGTGTCAATCA
GCCTCATGTGGGTTTGAATCAGTGTGCGTATAAATCCAGAGGAAGAGGAGGTACAAACTCAGAGAAAG
CACCCTGAGGAGATCGAGATGAAGGATGTTGAGTGT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001144870

Insert Size: 600 bp

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).



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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:	<u>NM_001144870.1, NP_001138342.1</u>
RefSeq Size:	1894 bp
RefSeq ORF:	600 bp
Locus ID:	500947
UniProt ID:	<u>Q5M7U7</u>
Cytogenetics:	8q12
Gene Summary:	Cell adhesion-like membrane protein of the central nervous system (CNS) which modulates both the position and complexity of central neurons by altering their membrane morphology and dynamics. Involved in the formation of neuronal dendrites and protrusions including dendritic filopodia. In synaptogenesis, regulates synapse formation by altering dendritic spine morphology and actin distribution. Promotes formation of unstable neuronal spines such as thin and branched types. Regulates neuronal morphogenesis and migration during cortical development in the brain.[UniProtKB/Swiss-Prot Function]