

## Product datasheet for **MG202004**

### Vstm5 (NM\_026955) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Tag:** TurboGFP  
**Symbol:** Vstm5  
**Synonyms:** 2200002K05Rik  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**ORF Nucleotide Sequence:** >MG202004 representing NM\_026955  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGAGACCACTGCGGTGCGGGGAGAGGACCCAAGGCATCCCCTGGGGCTGCTCGCGTTCTGGGTGACTG  
 CTGCCCGTGTCTGCAGAGCCAGGGGTGTCACTGTACATTCCACAGTCGGCCATCAACGCCACTGTCCA  
 ACAAGATATCCTGTTGTGAGTGGATACATCTGCCATGGCGTGCCTACTATTGAGTGGAAAGTACTCTCT  
 AACTGGGGTGTGCAGAGGATCGTGGAGTGGAAACCAGGGACCCAGCCAATGTCTCCAAAGCCACAGAG  
 ACAGAGTCTGCACCTTTGACAATGGCTCCATCCAGCTTTTCAATGTGAGTGTGAAGGATTCTGGCTACTA  
 CATCGTCACTGTACAGAGCATCCGGGGAGCAGCCAGTCTGGCACCATCTTGCTGCGTGTGTCTGAGATC  
 CGCTATGAAGACCTCCACTTCGTTGCTGTCTTTGCTCTGCTTGTGCCGTGGCTGTGGTGTCTAATCA  
 GCCTCATGTGGTTTGCAATCAGTGTGCGTATAAATCCAAAGGAAGAGGATACAACTCAAAGAAAG  
 CACCACTGAGGAGATTGAGATGAAAGAAGTTGAGTGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG202004 representing NM\_026955  
 Red=Cloning site Green=Tags(s)

MRPLRCGERTQGIPLGLLAFWVTAARCLQSQVSLYIPQSAINATVQQDILLVDYIICHGVPTIEWKYTP  
 NWGVQRIVEWKPGTPANVSQSHRDRVCTFDNGSIQLFNVSVKDSGYIIVTVEHPGSSQSGTILLRVSEI  
 RYEDLHFVAVFFALLAAVAVVLIISLMWVCNQAYKFKRKYKLESTTEEIEMKEVEC

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI



**Cloning Scheme:**


**ACCN:** NM\_026955

**ORF Size:** 597 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_026955.2](#), [NP\\_081231.1](#)

**RefSeq Size:** 1989 bp

RefSeq ORF: 600 bp

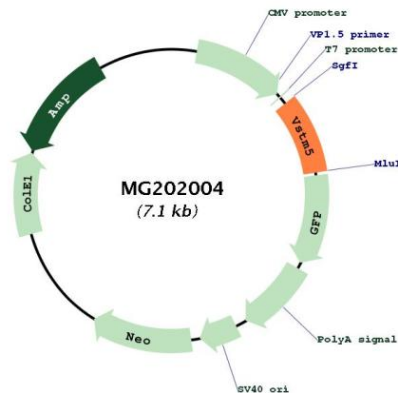
Locus ID: 69137

UniProt ID: [Q9D806](#)

Cytogenetics: 9 A2

**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]

### Product images:



Circular map for MG202004