

Product datasheet for **RG227422**

VSTM5 (NM_001144871) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: VSTM5 (NM_001144871) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: VSTM5
Synonyms: C11orf90
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG227422 representing NM_001144871
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGGCCTCTGCCAGCGGGAGGAGGAAGACCCGAGGCATCTCCCTAGGACTCTTCGCCCTCTGCCTGG
 CCGCAGCCCGCTGTCTGCAGAGTCAGGGTGTGTCCCTATACATTCCTCAGGCCACCATCAATGCCACTGT
 CAAAGAAGACATCCTGCTCTCAGTTGAGTACTCCTGTCTCATGGAGTGGCCACCATCGAATGGACATATTCA
 TCCAATTGGGAACGCAGAAGATCGTGGAGTGGAAACCAGGGACTCAGGCCAACATCTCTCAAAGCCACA
 AGGACAGAGTCTGCACCTTTGACAACGGCTCCATCCAGCTCTTCAGCGTGGGAGTGAGGGATTCCGGCTA
 CTATGTCATCACCGTGACGGAGCGCTGGGGAGCAGCCAGTTTGGCACCATCGTGTCTGCAGTCTCTGAG
 ATCCTCTATGAAGACCTGCACCTTTGTCGCTGTCATCCTTGCTTTTCTCGCTGCTGTGGCCGAGTATTAA
 TCAGCCTCATGTGGGTTTGTAATAAGTGTGCATATAAATTTAGAGGAAGAGAAGACACAACTCAAAGA
 AAGCAAACTGAGGAGATTGAGCTGGAAGATGTTGAGTGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG227422 representing NM_001144871
 Red=Cloning site Green=Tags(s)

MRPLPSGRRKTRGISLGLFALCLAAARCLQSQGVSLYIPQATINATVKEDILLSVEYSCHGVPTIEWTYS
 SNWGTQKIVEWKPGTQANISQSHKDRVCTFDNGSIQLFSVGVRDSGYVITVTERLGSSQFGTIVLHVSE
 ILYEDLHFVAVILAFLAAVAVALISLMWVCNKAYKFQRKRRLKKESTEEIELEDEVC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:



ACCN: NM_001144871

ORF Size: 600 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](#)

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).

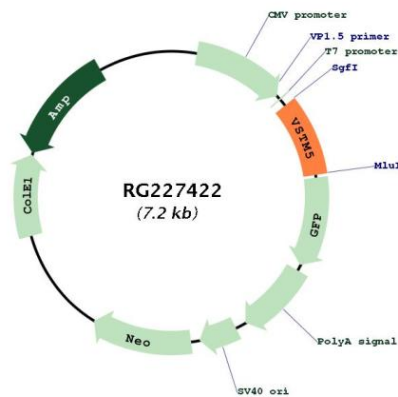
Reconstitution Method:

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_001144871.2](#)

RefSeq Size:	603 bp
RefSeq ORF:	603 bp
Locus ID:	387804
UniProt ID:	A8MXK1
Cytogenetics:	11q21
Protein Families:	Transmembrane
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 RG227422