

Product datasheet for **MG213699**

Vstm4 (NM_178791) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vstm4 (NM_178791) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Vstm4
Synonyms:	E130203B14Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG213699 representing NM_178791 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGGCTGCGGCTCCTAGCGCTGGCGGCGCCGTGCTGCTGGGTCCGGCCCCGGAAGTCTGTGGTGCTC
TCAATGTCACGGTGTCCCAGGACCTGTGGTGGACTACTTGAAGGGGAAAATGCCACCCTCCTCTGCCA
CGTCTCCAGAAGAGACGGAAGGACAGCTTGTGGCCGTGCGCTGGTTCTTCGCCCTGACGGCTCCAG
GAGGCCTTGATGGTGAAGATGACGAAGTCCGGATAATTCAGTACTATGGAACTCAGCCGGACTGCCA
ACCAGCAGAGGCTACGCCTGCTCGAGGAGCGTCGAGGGGTGCTGTACAGGCTGTCTGCTGACGCTCCG
GCCACAGATCAAGGGCAGTATGTCTGCAAAGTGAAGAAATCAGCAAGCACCGCAACAAGTGGACAGCC
TGGTCCAATGGCTCCTCGGCGACGAAAATGAGAGTGATCTCCCTCAAAGCTGGCGAAGATTCATCATTTG
AGAAAAAGAAGGTGACTTGGGCATTTTTGAAGATCTCTATGTGTACGCTGTCTTGTGTGCTGCGTGGG
GATCCTCAGTGTCTGCTCTCACCCCTGGTCATTGCCCTGGCAGTCTGTGTTTCAAGAGGAAAATCAAGA
GTGAGACATTATTTGGTGAAGTGCCCTCAGAACAGCTCAGGGGAGACTGTACCAGTGTGACCAGCTTGG
CCCCACTGCAGCCACAGAAGGGTAAGAGGCAGAAGAAGGTAGATGTTCCACCTGCAGTCCCTGCCAA
AGCGCCGATAGCCACCCTTTCCACAAACAAAGCTGCTGAAACCACAGAGGAAAGTCCGCTGCCCAAG
ATCACCGAGGAAAACCTTGACCTATGCCGAGCTGGAGCTGATCAAACCACACAGGGCTGCCAAAGGCGTCC
CCACCAGCACCGTGATGCACAGATCCTCTTCGAGGAGAACCAGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG213699 representing NM_178791
Red=Cloning site Green=Tags(s)

MRLRLALAAVLLGPAPEVCGALNVTVSPGPVVDYLEGENATLLCHVSQKRRKDSLLAVRWFFAPDGSQ
 EALMVKMTKLRIQYYGNFSRTANQQLRLLLEERRGVL YRLSVL TLRPTDQGQYVCKVQEISKHRNKWTA
 WSNQSSATEMRVIVSLKAGEDSSFEKKKVTWAFEDLYVYAVLVCCVGILSVLLFTLVIAWQSVFHKRKS
 VRHYLVKCPQNSSGETVTSVTSAPLQPKQKGRQKKKVDVPPAVPAKAPIATTFHKPCLKPQRKVALPK
 ITEENLYAELELIKPHRAAKGVPTSTVYAQILFEENQL

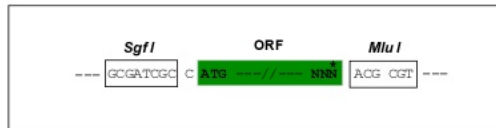
TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1700_g07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_178791

ORF Size: 957 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.

RefSeq: [NM_178791.5](#)

RefSeq Size: 2743 bp

RefSeq ORF: 960 bp

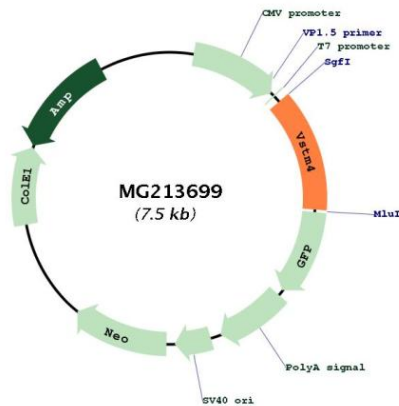
Locus ID: 320736

UniProt ID: [T1NXB5](#)

Cytogenetics: 14 B

Gene Summary: Peptide Lv enhances L-type voltage-gated calcium channel (L-VGCC) currents in retinal photoreceptors.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG213699