

Product datasheet for **MG202852**

Vstm2a (NM_145967) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Vstm2a
Synonyms:	Vstm2
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG202852 representing NM_145967
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGGGATCTTTTGGCGTCTGTTGGATTTATGTTCTTTCCGTGTTATATGTACAACAAGGGCTTTCTT
CTCAAGCAAAATTTACCGAGTTGCCGAGAAATGTGACTGCTACCGAAGGGCAAAATGTGGAGATGTCCTG
TGCTTTCAAAGCGGCTCTGCTTCAGTGTACCTGGAGATCCAGTGGTGGTTCTTCGGGGGCCAGAGGAC
CTGGAGCAAGGCACGGAGGCTGCAGGCTCGCAGGTGGAGCTTTACCCGACAGAGACCCGGACAACGATG
GGACCAAGATTAGTACAGTAAAAGTCCAAGGCAATGATATCTCCCACAAGCTTCAGATATCCAAAGTGAG
AAAAAAGGATGAAGTTTATACGAGTGCAGGGTACTGACGCTAACTACGGGGAGCTTCAGGAACACAAG
GCCAGGCCTATCTGAAAGTCAATGCCAACAGCCATGCTCGGAGGATGCAGGCCTTTGAAGCCTCACCTA
TGTGGCTGCAAGACACGAAGCCTCGAAAGAACGCATCATCGGTGGTTCCAGCAGCGTCCACAACCTGCTG
CAACCAACGAATGCACTCCACCTCCAGCCCTCAAGCGGTAGCCAAAATCCCAAGCAAAGTCCACAATCA
GGTCCGAGGATAGCTACAAGCCATGGACTTTCTGTCCTGCTTCTGTTTGTGGCTTTGTGAAGGGTGCTT
TGCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >MG202852 representing NM_145967
 Red=Cloning site Green=Tags(s)

MGIFLASVGFMFSSVLYVQQLSSQAKFTELPRNVTATEGQNVEMSCAFQSGSASVYLEIQWWFLRGPED
 LEQGTEAAGSQVELLPDRDPDNDGKISTVKVQGNDISHKLQISKVRKKDEGLYECRVTDANYGELQEHK
 AQAYLKVNANSHARRMQAFEASPMWLQDTKPRKNASSVVPSSVHNSANQRMHSTSSPQAVAKIPKQSPQS
 GARIATSHGLSVLLLVCGFVKGALL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145967

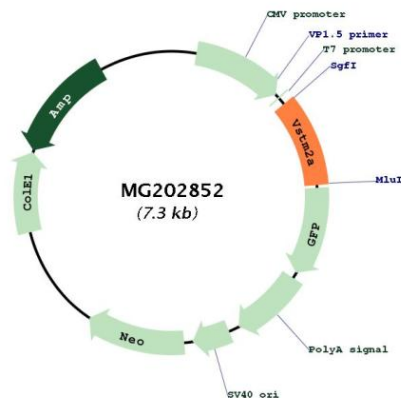
ORF Size: 705 bp

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:	<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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_145967.1 , NP_666079.1
RefSeq Size:	3229 bp
RefSeq ORF:	711 bp
Locus ID:	211739
UniProt ID:	Q8R0A6
Cytogenetics:	11 A2
Gene Summary:	Plays a role in the regulation of the early stage of white and brown preadipocyte cell differentiation. Promotes adipogenic commitment of preadipocytes by increasing gene expression of the transcription factor PPARG in a BMP4-dependent signaling pathway. [UniProtKB/Swiss-Prot Function]

Product images:

Circular map for MG202852