

## Product datasheet for **RG236848**

### VSTM2A (NM\_001301009) Human Tagged ORF Clone

#### Product data:

|                           |                                                                                |
|---------------------------|--------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                            |
| Product Name:             | VSTM2A (NM_001301009) Human Tagged ORF Clone                                   |
| Tag:                      | TurboGFP                                                                       |
| Symbol:                   | VSTM2A                                                                         |
| Synonyms:                 | VSTM2                                                                          |
| Mammalian Cell Selection: | Neomycin                                                                       |
| Vector:                   | pCMV6-AC-GFP (PS100010)                                                        |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                                         |
| ORF Nucleotide Sequence:  | >RG236848 representing NM_001301009.<br>Blue=ORF Red=Cloning site Green=Tag(s) |

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGATGGGGATCTTTTGGTGTATGTTGGATTTGTTTCTTTCCGTTTTATGTACAACAAGGGCTT
TCTTCTCAAGCAAAATTTACCGAGTTTCCGCGAACGTGACGGCGACCGAGGGGCAGAATGTGGAGATG
TCCTGCGCCTTCAGAGCGGCTCCGCCTCGGTGTATCTGGAGATCCAATGGTGGTTCTGCGGGGGCCG
GAGGACCTGGATCCCGGGGCCGAGGGGGCCGGCGCGCAGGTGGAGCTCTGCCCCACAGAGACCCGGAC
AGCGACGGGACCAAGATCAGCACAGTGAAAGTCCAAGGCAATGACATCTCCACAAGCTTCAGATTTCC
AAAGTGAGGAAAAAGGATGAAGGCTTATATGAGTGCAGGGTGACTGATGCCAACTACGGGGAGCTTCAG
GAACACAAGGCCAGGCCTATCTGAAAGTCAATGCCAACAGCCATGCCCGCAGAATGCAGGCCTTCGAA
GCCTCGCCCATGTGGCTGCAGGATATGAAGCCCCGCAAGAACGTCTCCGAGCCATCCCCAGCAGCATC
CATGGCTCTGCCAACCAACGAACGCACTCCACCTCCAGCCCTCAAGTGGTAGCCAAAATCCCCAAACAA
AGTCCACAATCAGCAAAGAGCAAATCGCCTGTAAATCTACGGAGCGGACAGCAAAGTTGACCCTAAAC
TCCAAGCACCACCCTGCACCACTGTACTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC

```



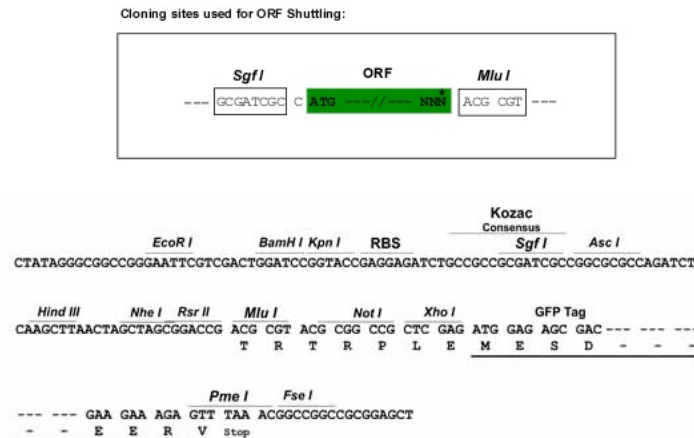
[View online »](#)

**Protein Sequence:** >Peptide sequence encoded by RG236848  
 Blue=ORF Red=Cloning site Green=Tag(s)

MMGIFLVYVGFVFFSVLYVQQLSSQAKFTEFPRNVTATEGQNVEMSCAFQSGSASVYLEIQWWFLRGP  
 EDLDPGAEGAGAQVELLPDRDPDSGDKISTVKVQGNDSHKLQISKVRKKDEGLYECRVTDANYGELQ  
 EHKAQAYLKVNSHARRMQAFEASPMWLQDMKPRKNVSAIIPSSIHGSANQRTHTSSPQVVAKIPKQ  
 SPQSAKSKSPVKSTERTAKLTLNSKHHPAPTVL  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTNRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNTVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSTMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001301009

**ORF Size:** 731 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).

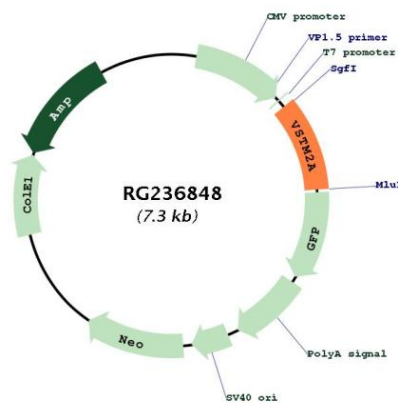
**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_001301009.2](#)

**RefSeq Size:** 3000 bp

|                   |                                                                                                                                                                                                                                                                                                |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RefSeq ORF:       | 723 bp                                                                                                                                                                                                                                                                                         |
| Locus ID:         | 222008                                                                                                                                                                                                                                                                                         |
| Cytogenetics:     | 7p11.2                                                                                                                                                                                                                                                                                         |
| Protein Families: | Secreted Protein, Transmembrane                                                                                                                                                                                                                                                                |
| MW:               | 26.9 kDa                                                                                                                                                                                                                                                                                       |
| 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 RG236848