

Product datasheet for **RG206198**

VSTM2A (NM_182546) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VSTM2A (NM_182546) 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:	>RG206198 representing NM_182546 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGATCTTTTGGTGTATGTTGGATTTGTTTTCTTTCCGTTTTATATGTACAACAAGGGCTTTCTT
CTCAAGCAAAATTTACCGAGTTTCCGCGGAACGTGACGGCGACCGAGGGGCAGAAATGTGGAGATGTCCTG
CGCCTTCCAGAGCGGCTCCGCTCGGTGTATCTGGAGATCCAATGGTGGTTCCTGCGGGGCCGGAGGAC
CTGGATCCCGGGCCGAGGGGGCCGCGCGCAGGTGAAGCTCTTGCCCGACAGAGACCCGGACAGCGACG
GGACCAAGATCAGCACAGTGAAAGTCCAAGGCAATGACATCTCCACAAGCTTCAGATTTCAAAGTGAG
GAAAAAGGATGAAGGCTTATATGAGTGCAGGGTACTGATGCCAACTACGGGGAGCTTCAGGAACACAAG
GCCCAAGCCTATCTGAAAGTCAATGCAAACAGCCATGCCCGCAGAATGCAGGCCTTCGAAGCCTCGCCCA
TGTGGCTGCAGGATATGAAGCCCGCAAGAAGCTCTCCGAGCCATCCCGAGCAGCATCCATGGCTCTGC
CAACCAACGAACGCACTCCACCTCCAGCCCTCAAGTGGTAGCCAAAATCCCAACAAAGTCCACAATCA
GGTATGGAACCCATTTTCGAGCCTTTTATTTTACCCTCACAACGCTCCACAGAAAGGTCAGTCGTATA
GAGTAGACAGATTTATGAATGGTGATTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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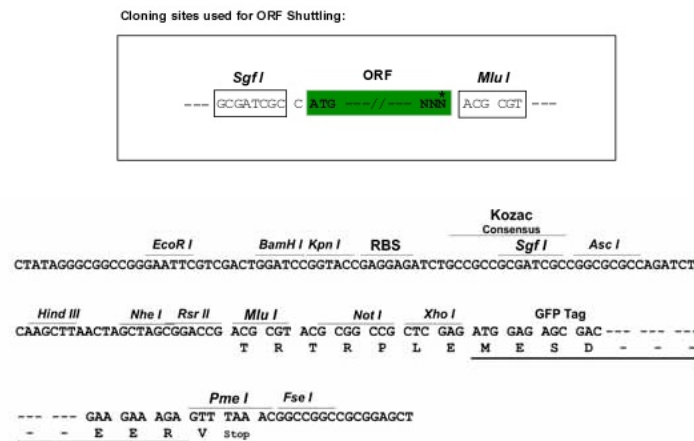
Protein Sequence: >RG206198 representing NM_182546
Red=Cloning site Green=Tags(s)

MGIFLVYVGVFFSVLYVQQGLSSQAKFTEFPRNVTATEGQNVEMSCAFQSGSASVYLEIQWVFLRGPED
 LDPGAEGAGAQVKLLPDRDPDSGDKISTVKVQGNDISHKLQISKVRKKDEGLYECRVTDANYGELQEHK
 AQAYLKVNANSHARRMQAFEASPMWLQDMKPRKNVSAAIIPSSIHGSAHQTRHSTSSPQVVAKIPKQSPQS
 GMETHFEFPFILPLTNAPQKQSYRVDRFMNGDF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_182546

ORF Size: 729 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_182546.1](#), [NP_872352.1](#)

RefSeq Size: 3289 bp

RefSeq ORF: 711 bp

Locus ID: 222008

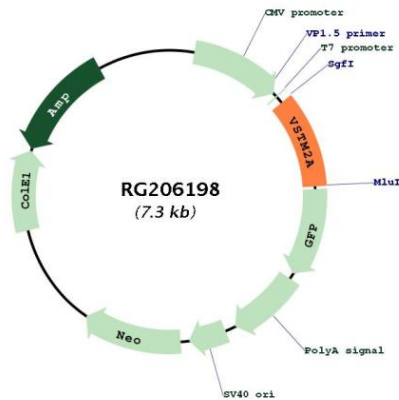
UniProt ID: [Q8TAG5](#)

Cytogenetics: 7p11.2

Protein Families: Secreted Protein, Transmembrane

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 RG206198