

Product datasheet for **RC206198**

VSTM2A (NM_182546) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VSTM2A (NM_182546) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	VSTM2A
Synonyms:	VSTM2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206198 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGATCTTTTTGGTGTATGTTGGATTTGTTTTCTTTCCGTTTTATATGTACAACAAGGGCTTTCTT
CTCAAGCAAAATTTACCGAGTTTCCGCGGAACGTGACGGCGACCGAGGGCAGAATGTGGAGATGTCCTG
CGCCTTCCAGAGCGGCTCCGCTCGGTGTATCTGGAGATCCAATGGTGGTTCCTGCGGGGCCGGAGGAC
CTGGATCCCGGGCCGAGGGGGCCGCGCGCAGGTGAAGCTCTTGCCGACAGAGACCCGGACAGCGACG
GGACCAAGATCAGCACAGTGAAAGTCCAAGGCAATGACATCTCCACAAGCTTCAGATTTCAAAGTGAG
GAAAAAGGATGAAGGCTTATATGAGTGCAGGGTACTGATGCCAACTACGGGGAGCTTCAGGAACACAAG
GCCCAAGCCTATCTGAAAGTCAATGCAAACAGCCATGCCCGCAGAATGCAGGCCTTCGAAGCCTCGCCCA
TGTGGCTGCAGGATATGAAGCCCGCAAGAAGCTCTCCGAGCCATCCCCAGCAGCATCCATGGCTCTGC
CAACCAACGAACGCACTCCACCTCCAGCCCTCAAGTGGTAGCCAAAATCCCCAAACAAAGTCCACAATCA
GGTATGGAACCCATTTTCGAGCCTTTTATTTTACCCTCACAACGCTCCACAGAAAGGTCAGTCGTATA
GAGTAGACAGATTTATGAATGGTGATTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RC206198 protein sequence
Red=Cloning site Green=Tags(s)

MGIFLVYVGVFFSVLYVQQGLSSQAKFTEFPRNVTATEGQNVEMSCAFQSGSASVYLEIQWFLRGPED
 LDPGAEGAGAQVKLLPDRDPDSGDKISTVKVQGNDISHKLQISKVRKKDEGLYECRVTDANYGELQEHK
 AQAYLKVANSHARRMQAFEASPMWLQDMKPRKNVSAAIIPSSIHGSAHQTRHSTSSPQVVAKIPKQSPQS
 GMETHFEFPFILPLTNAPQKQGQSYRVDRFMNGDF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6318_c12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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: 3122 bp

RefSeq ORF: 711 bp

Locus ID: 222008

UniProt ID: [Q8TAG5](#)

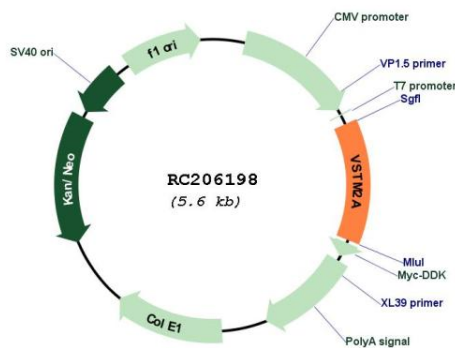
Cytogenetics: 7p11.2

Protein Families: Secreted Protein, Transmembrane

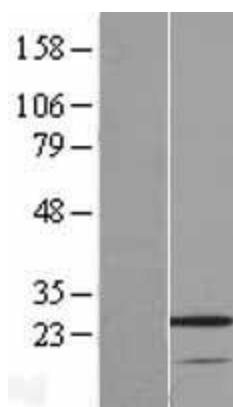
MW: 27 kDa

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]

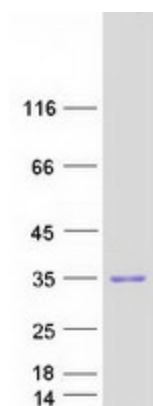
Product images:



Circular map for RC206198



Western blot validation of overexpression lysate (Cat# [LY405498]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206198 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified VSTM2A protein (Cat# [TP306198]). The protein was produced from HEK293T cells transfected with VSTM2A cDNA clone (Cat# RC206198) using MegaTran 2.0 (Cat# [TT210002]).