

Product datasheet for **RC236848**

VSTM2A (NM_001301009) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VSTM2A (NM_001301009) 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:	>RC236848 representing NM_001301009 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGGGGATCTTTTGGTGTATGTTGGATTGTTTTCTTTCCGTTTTATGTACAACAAGGGCTTT
CTTCTCAAGCAAAATTTACCGAGTTTCCGCGAACGTGACGGCGACCGAGGGGCAGAATGTGGAGATGTC
CTGCGCTTCCAGAGCGGCTCCGCCTCGGTGTATCTGGAGATCCAATGGTGGTTCCTGCGGGGGCCGGAG
GACCTGGATCCCGGGCCGAGGGGGCCGGCGCGCAGGTGGAGCTCTGCCCGACAGAGACCCGGACAGCG
ACGGGACCAAGATCAGCACAGTCAAAGTCCAAGCAATGACATCTCCACAAGCTTCAGATTTCCAAAGT
GAGGAAAAAGGATGAAGGCTTATATGAGTGCAGGGTGACTGATGCCAACTACGGGGAGCTTCAGGAACAC
AAGGCCAGGCCTATCTGAAAGTCAATGCCAACAGCCATGCCCGCAGAATGCAGGCCTTCGAAGCCTCGC
CCATGTGGCTGCAGGATATGAAGCCCCGCAAGAAGCTCTCCGAGCCATCCCCAGCAGCATCCATGGCTC
TGCCAACCAACGAACGCACTCCACCTCCAGCCCTCAAGTGGTAGCCAAAATCCCCAAACAAAGTCCACAA
TCAGCAAAGAGCAATCGCCTGTAAAATCTACGGAGCGGACAGCAAAGTTGACCTAACTCCAAGCACC
ACCCTGCACCCACTGTACTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC236848 representing NM_001301009

Red=Cloning site Green=Tags(s)

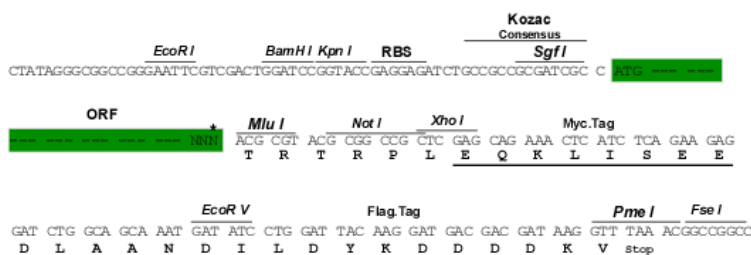
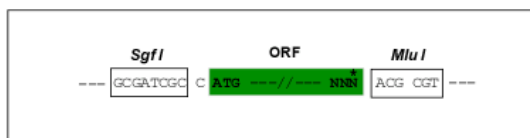
MMGIFLVYVGVFFSVLYVYQQLSSQAKFTEFPRNVTATEGQNVEMSCAFQSGSASVYLEIQWWFLRGP
DLDPGAEGAGAQVELLPDRDPDSDGTKISTVKVQGNDSHKLQISKVRKDEGLYECRVTDANYGELQEH
KAQAYLKVNSHARRMQAFEASPMWLQDMKPRKNVSAIPSSIHSANQRTHTSSPQVVAKIPKQSPQ
SAKSPVKSTERTAKLTLNSKHHPAPTVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 001301009

ORF Size: 720 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.

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

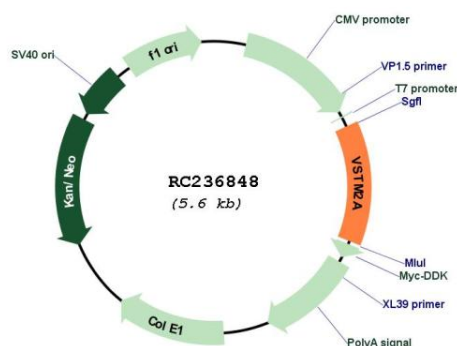
Cytogenetics: 7p11.2

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 RC236848