

Product datasheet for **RC211043**

VMA21 (NM_001017980) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: VMA21 (NM_001017980) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: VMA21
Synonyms: MEAX; XMEA
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC211043 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGCGCCCGGATAAGGCGGCGCTGAACGCACTGCAGCCTCCTGAGTTCAGAAATGAAAGCTCATTAG
CATCTACACTGAAGACGCTCCTGTTCTTCACAGCTTTAATGATCACTGTTCTATTGGGTATATTTTAC
AACTAAATCTTACATATTTGAAGGCGCCCTTGGGATGTCCAATAGGGACAGCTATTTTTACGCTGCTATT
GTTGCAGTGGTCGCCGTCCATGTGGTGTGGCCCTCTTTGTGTATGTGGCCTGGAATGAAGGCTCACGAC
AGTGGCGTGAAGCAAACAGGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC211043 protein sequence
Red=Cloning site Green=Tags(s)
MERPDKAALNALQPPEFRNESSLASTLKTLLFF TALMITVPIGLYFTTKSYIFEGALGMSNRDSYFYAAI
VAVVAVHVVLALFVYVAVNEGSRQWREGKQD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6378_a11.zip

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_001017980

ORF Size: 303 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.

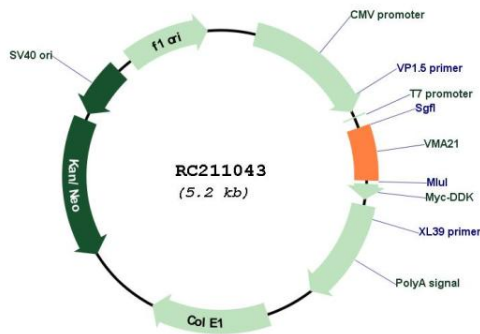
RefSeq: [NM_001017980.3](#), [NP_001017980.1](#)

RefSeq Size: 4760 bp

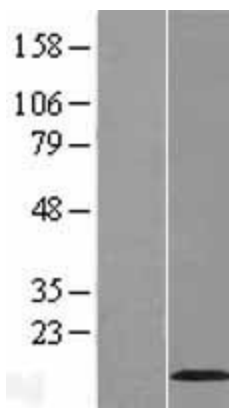
RefSeq ORF: 306 bp

Locus ID: 203547

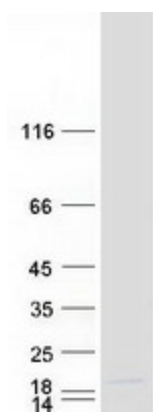
UniProt ID: Q3ZAO7
Cytogenetics: Xq28
Protein Families: Transmembrane
MW: 11.4 kDa
Gene Summary: This gene encodes a chaperone for assembly of lysosomal vacuolar ATPase.[provided by RefSeq, Jul 2012]

Product images:


Circular map for RC211043



Western blot validation of overexpression lysate (Cat# [LY422224]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211043 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified VMA21 protein (Cat# [TP311043]). The protein was produced from HEK293T cells transfected with VMA21 cDNA clone (Cat# RC211043) using MegaTran 2.0 (Cat# [TT210002]).