

## Product datasheet for RC221753

### VMO1 (NM\_182566) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** VMO1 (NM\_182566) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** VMO1  
**Synonyms:** ERGA6350; PRO21055  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC221753 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAGCGGGGCGCAGGAGCCAAGCTGCTGCCGCTGCTGCTGCTTCTGCGGGCGACTGGTTTCACATGTG  
 CACAGACAGATGGCCGGAACGGCTACACGGCGGTCATCGAAGTGACCAGCGGGGGTCCCTGGGGCGACTG  
 GGCCTGGCCTGAGATGTGTCCCGATGGATTCTTCGCCAGCGGGTCTCGCTCAAGGTGGAGCCTCCCCAA  
 GGCATTCTGGCGACGACTGCACTGAATGGGATCAGGCTGCACTGCGCGCGGGGAACGTCCTAGGCA  
 ATACGCACGTGGTAGAGTCCCAGTCTGGAAGCTGGGGCGAATGGAGTGAGCCGCTGTGGTGTGCGGCGG  
 CGCTACCTAGTGGCTTTCTCGCTTCGCGTGGAGGCACCCACGACCTCGGTGACAAACAGCAGCGAAC  
 AACGTGCGCTTCCGCTGTTCAGACGCGGAGGAAGTGCAGGGCCCTGGGCTGAGCTGGGGAGACTTTGGAG  
 ACTGGAGTGACCAATTGCCCAAGGGCGCGTGGCGCTGCAGACCAAGATCCAGGGACCTAGAGGCCTCGG  
 CGATGACACTGCGCTGAACGACGCGCGCTTATTCTGCTGCCGAGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC221753 protein sequence  
 Red=Cloning site Green=Tags(s)

MERGAGAKLLPLLLLLRATGFTCAQTDGRNGYTAIVIEVTSGGPWGDWAWPEMCPDGFASFSLKVEPPQ  
 GIPGDDTALNGIRLHCARGNVLGNTHVVESQSGSWGWESEPLWCRGGAYLVAFLRVEAPTTLDNNTAAN  
 NVRFRCSDEELQGPGLSWGDFGDWSDHCPKGACGLQTKIQGPRGLGDDTALNDARLFCCRS

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV



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**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6458\\_b12.zip](https://cdn.origene.com/chromatograms/mk6458_b12.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_182566

**ORF Size:** 606 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.

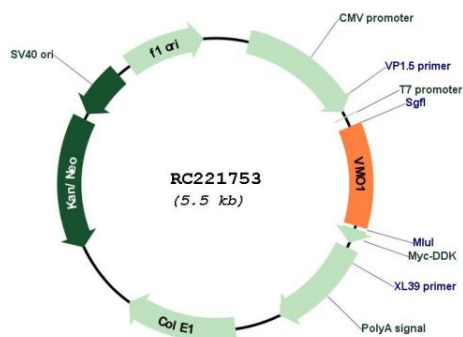
**RefSeq:** [NM\\_182566.3](#)

**RefSeq Size:** 785 bp

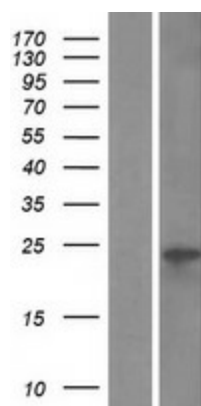
**RefSeq ORF:** 609 bp

**Locus ID:** 284013

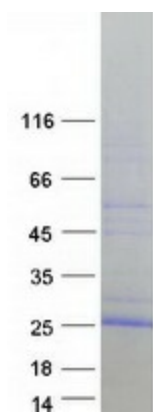
**UniProt ID:** [Q7Z5L0](#)  
**Cytogenetics:** 17p13.2  
**Protein Families:** Secreted Protein  
**MW:** 21.5 kDa

**Product images:**


Circular map for RC221753



Western blot validation of overexpression lysate (Cat# [LY405488]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221753 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified VMO1 protein (Cat# [TP321753]). The protein was produced from HEK293T cells transfected with VMO1 cDNA clone (Cat# RC221753) using MegaTran 2.0 (Cat# [TT210002]).