

Product datasheet for **MR230732**

Vit (NM_001197028) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vit (NM_001197028) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Vit
Synonyms:	1700052E02Rik; 1700110E08Rik; 2810429K11Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR230732 representing NM_001197028
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGAATTGTTGTTCCCACTATGAAGGCATCTGTTATTGAAGTGTGCTTGGCTGTGCCTCAGATCAACT
 GCGATGTCAAAGCTGAAAGATCATCAATCCTGAGTTCATGGTAAATGTCCAGCGGGCTGCCAGGACCC
 CAAATACCATGTTTACGGCACTGGCGTCTACGCGTCTTACTCCAGCGTGTGTGGCGCCGCAATTCACAGC
 GGTGTGCTGGATAATTCAGGAGGAAAATACTTGTTCGAAAAGTTGCTGGGCAGTCTGGTTACAAAGGAA
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 CTACAAAATTGCCCCAGGATCATCCAGAATATTTGTACAGAGTCAACTCACAGCCTCGAAAC

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Protein Sequence:

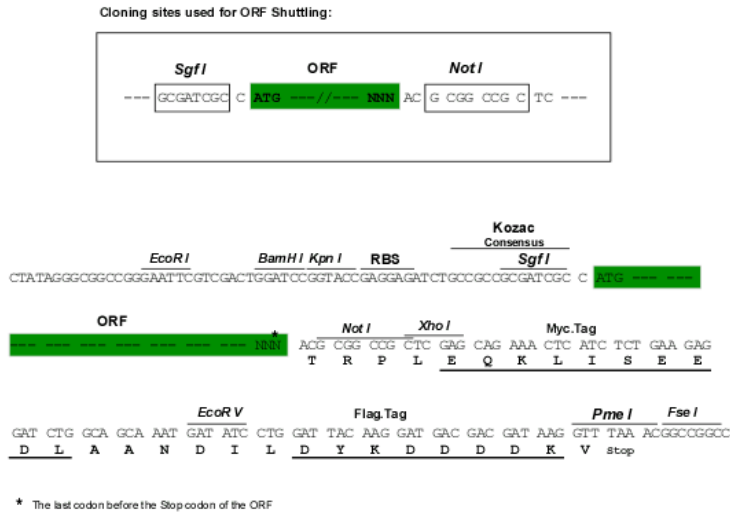
>MR230732 representing NM_001197028
 Red=Cloning site Green=Tags(s)

MGIVVPTMKASVIEVLLAVPQINCDVKAGKIINPEFMVKCPAGCQDPKYHVYGTGVYASYSSVCGAAIHS
 GVLDNSGGKILVRKVAGQSGYKGSYSNGVQSLSLPRWRESFIVAESKPQKGVAYPSTLYSSSKTAAAKA
 GETTKAYEKPSIPGTTIQPVTLTQAQATPVAEVTHRSTSKPFAASVTNSPRPQPVGHRSEQEMEEVDGWKP
 GPVLLDSGFVPKEELSTQSSEPVPOGDPNCKIDL SFLIDGSTSIGKRRFRIQKQFLADVQALDIGPAGP
 LVGVVQYGDNPATQFNLKT HMNSQDLKTAIEKITQRGGLSNVGRAISFVTKTFFSKANGNRGGAPNVAVV
 MYDGPWPTDKVEEVS RVARESGINVFFITVEGAAERDIQHVVEPGFASKAVCRTNGFYSFNVQSWLSLHKT
 VQPLVKRVCDTDLRACSKTCLNSADIGFVIDGSSSMGTSNFRTVLQFVANLSKEFEISDTRVAVQYT
 YEQRLEFGFDKYNKADILSAIRRVGYWSSGGTSTGAAIQYALEQLFKKSKPNKRKVMIIITDGRSYDDVR
 IPMAAAYQKGVITYAIGIAWAAQDELEVMAHPAKDHSFFVDDFDNLKYIAPRIIQNICTEFNSQPRN

TRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-NotI

Cloning Scheme:



ACCN: NM_001197028

ORF Size: 1884 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_001197028.1](#), [NP_001183957.1](#)

RefSeq Size: 2671 bp

RefSeq ORF: 1887 bp

Locus ID: 74199

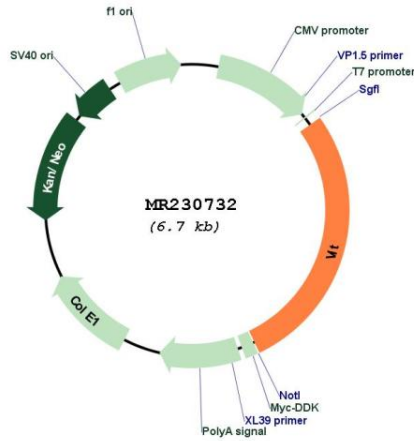
UniProt ID: [Q8VHI5](#)

Cytogenetics: 17 E3

MW: 68.6 kDa

Gene Summary: Promotes matrix assembly and cell adhesiveness (PubMed:18757743). Plays a role in spinal cord formation by regulating the proliferation and differentiation of neural stem cells (PubMed:25331329).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR230732