

## Product datasheet for **MR209763**

### Vit (NM\_028813) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Vit (NM_028813) 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)



[View online »](#)

ORF Nucleotide  
Sequence:

>MR209763 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGGGAATTGTTGTTCCCACTATGAAGGCATCTGTTATTGAAGTGTGCTTGTGTTTCTGGTAACTGGAA  
TACATTCAAATAAAGAAACGCCAAAGAAGACTAAAGGCCAAACTCACTGTGCCTCAGATCAACTGCGA  
TGTCAAAGCTGGAAGATCATCAATCCTGAGTTCATGGTGAATGTCCAGCGGGTCCAGGACCCAAA  
TACCATGTTTACGGCACTGGCGTCTACGCGTCTTACTCCAGCGTGTGGCGCCGCAATTCACAGCGGTG  
TGCTGGATAATTCAGGAGGAAAATACTTGTTCGGAAAGTTGCTGGGCAGTCTGGTTACAAAGGAAGCTA  
CTCGAATGGGGTTCAGTCTTTATCTTTACCCAGATGGCGAGAGTCTTTCATCGTCGAGAAAAGTAAGCCC  
CAAAAGGGTGTAGCCTACCCATCGACTCTTACATATTCATCATCGAAAAGTGCAGCTGCTAAAGCAGGTG  
AGACCACAAAAGCCTATGAGAAGCCATCTATTCCAGGGACAACCATACAGCCTGTACCCTGACACAGGC  
TCAAGCTACCCCTGTAGCTGAGGTACCCACAGATCCACCTCAAAGCCATTTGCAGCATCTGTCACCAAC  
AGCCCCAGACCCCAACCTGTGGGCCACAGGAGTCAAGGAGATGGAAGAGGTGGACGGTGGAAAGCCTGGAC  
CAGTCTTTTAGATTAGGATTTGTGCCAAAAGAAGAACTCAGCACACAGTCTTCGGAGCCAGTGGCCGA  
GGGAGATCCAAACTGCAAAATTGACTTGTCTTCTTAATTGATGGGAGCACAGCATCGGCAAGCGCCGC  
TTCCGGATCCAGAAGCAGTTCCTAGCGGACGTCGTCCAGGCTCTTGACATCGGCCCTGCCGGTCCCTCG  
TGGGTGTTGTTTACAGTACGGAGACAATCTGCTACCCAGTTAACCTCAAACTCATATGAATCTCAAGA  
TCTGAAGACAGCTATAGAGAAAATTACCCAGAGAGGAGGCCTTTCTAATGTAGGCCGTGCCATCTCCTTT  
GTAACCAAGACCTCTTTTCAAAGCCAATGGGAACAGAGGTGGTGTCCCAATGTGGCTGTGGTCAATGG  
TGGATGGCTGGCCACAGACAAGGTGGAAGAGGTGTACGAGTTGCCAGAGAGTCTGGGATCAACGTCCTT  
CTTCATCACCGTCGAAGGGGCCCGGAAAGGGACATACAGCATGTGGTGGAGCCCGTTTTGCCAGCAAG  
GCAAGTGTGAGAACAACGGGTTCTACTCTTCAATGTGCAAGAGTGGCTCAGCCTTCACAAAACAGTGC  
AGCCCCTGGTGAAGCGGGTCTGCGACACGGACCGCCTAGCCTGCAGCAAGACCTGTTTAAACTCTGCGGA  
CATAGGCTTTGTCATCGATGGGTCTAGCAGCATGGGGACAAGCAACTTCCGCACGGTCTGCAGTTCGTG  
GCCAACCTCAGCAAGGAGTTTGGATTTTACAGACACCGACACACGCGTCCGGGCGGTGCAGTACACCTACG  
AGCAGCGGCTCGAATTTGGGTTGACAAGTATAACAGCAAAGCCGACATCCTCAGTGCCATCAGGAGGT  
GGGGTACTGGAGCGGAGGCACCAGCACAGGGGCTGCCATCCAGTATGCCCTCGAACAGCTCTTCAAGAAG  
TCCAAACCGAACAAGAGGAAGGTAAATGATCATTACTGACGGCAGGTCTTACGATGACGTGCGGATCC  
CAGCCATGGCTGCCTACCAGAAGGGGGTATCAGGTATGCAATAGGCATTGCGTGGGCTGCTCAGGACGA  
GCTGGAGGTAATGGCCACTACCCCGCCAAGGACCATTCTTCTTTGTGGATGATTTTGACAACCTCTAC  
AAAATTGCCCCAGGATCATCCAGAATATTTGTACAGAGTTCAACTCACAGCCTCGAAAC

ACGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGA  
TTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR209763 protein sequence  
Red=Cloning site Green=Tags(s)

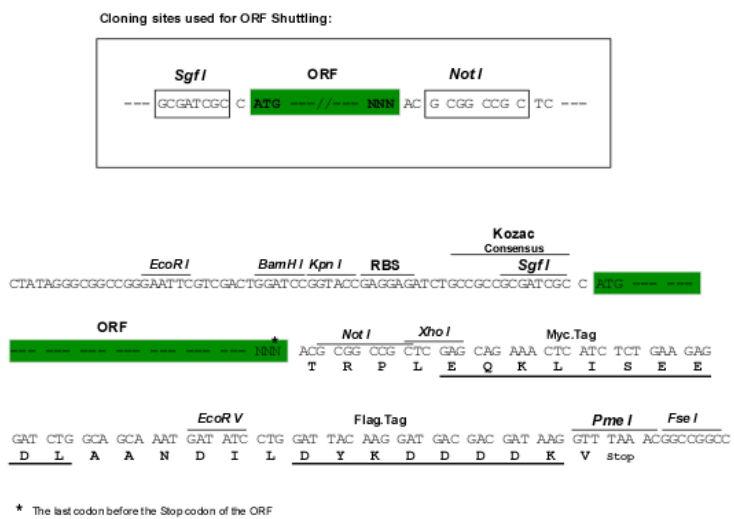
```

MGIVVPTMKASVIEVLLVLLVTGIHSNKETPKKTKRPKL TVPQINCDVKAGKIINPEFMVKCPAGCQDPK
YHVYGTGVYASYSSVCGAAIHSGLVLDNSGGKIL VRKVAGQSGYKGSYNGVQSLSLPRWRESFIVAESKP
QKGVAYPSTLTYSSSKTAAAKAGETTKAYEKPSIPGTTIQPVTLTQAQATPVAEVTHRSTSKPFAASVTN
SPRPQPVGHRSQEMEEVDGWKPGPVLLDSGFVPKEELSTQSSEVPVQGDPNCKIDL SFLIDGSTSIGKRR
FRIQKQFLADVVALDIGPAGPLVGVVQYGDNPATQFNLKTHMNSQDLKTAIEKITQRGGLSNVGRAISF
VTKTFFSKANGNRGGAPNVAVVMVDGWPTDKVEEVSRAVRESGINVFFITVEGAAERDIQHVVPEPGFASK
AVCRTNGFYSFNVQSWLSLHKTVQPLVKRVCDTRLACSKTCLNSADIGFVIDGSSSMGTSNFRTVLQFV
ANLSKEFEISDTRVAVQYTYEQRLFQFDKYNKADILSAIRRVGYWGGTSTGAAIQYALEQLFKK
SKPNKRKVMIIITDGRSYDDVRIPAMAAYQKGVITYAIGIAWAAQDELEVMATHPAKDHSSFFVDDFDNLY
KIAPRIIQNICTEFNLSQPRN
    
```

TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-NotI

**Cloning Scheme:**



**ACCN:** NM\_028813

**ORF Size:** 1953 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\\_028813.2](#), [NP\\_083089.1](#)

**RefSeq Size:** 2737 bp

**RefSeq ORF:** 1953 bp

**Locus ID:** 74199

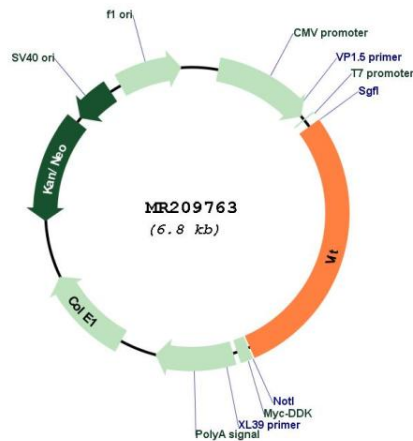
**UniProt ID:** [Q8VHI5](#)

**Cytogenetics:** 17 E3

**MW:** 70.7 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 MR209763