

## Product datasheet for **MR215031**

### Vrtn (NM\_001168588) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Vrtn (NM_001168588) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Vrtn
Synonyms:	7420416P09Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR215031 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACGTCTCGGGATCAGCTGGTGCAGCAGGTGCTGCGGACCTGCAGGAGGCAGTGGAGTCCGAGGGCT  
TAGAGGGTCTCATCGGTGCTGCCCTGGAGGCCAAGCAGGTCTATCTTCCTTACCCTTCCCATCTGCCA  
GAAGGGCGGCCCTGGCGCTCAGGTGCTGGAGGTGGACTCAGTGGCCTTGAGTCTGTACCCGGAGGATGCT  
CCTCGGAACATGCTGCCCTTGGTGTGCAAGGGTGAAGGGAGCCTGTTGTTTGAAGCGACCAGCCTGTTGT  
TGTGGGGGCACACGGGTCTCAGCCTGGAGCTGCGAGCCCGCACTGTGGTGGAGATGCTGTCACAGGCA  
CTATTATCTGCAGGGCATGATCGACTCCAAGGTGATGCTGCAGGCTGTGCGCTACTCCTTGTGCTCTGAG  
GAGTCCCCTGAGATGACCAACTATCTTTGCCACACTGGAGGCCATCTTTGATGCTGATGTAAGGCTA  
CGTGCTTCCCAACGAGCTTCTCCAATGTGTGGCACTTGTATGCCCTCGCCTCCATCCTTGAATGCAACAT  
CTACTCCATCTACCCATGCGCAACATCAAGATCCGACCCTATTTAACCCTGTTATCATGCCTCGCTGC  
TCCACCCACGTGACCTCCATGCTGCACATCATGTGGGCTGGTCAAGCCCTCACTAGCCACCTCTTCCGTC  
ACCAATTTTTGCCCTGTTGTTGGGCTGGAGGAGGTGGAGGCTGACTGTACTGCTAGCCTGAACCCCGT  
TCCTCAAACCTGGGTCCTCTGCTACCACCCGCTAAAACCTGGAGCTGCTCAACCGTGAACCTGGCCTC  
AGCTACTCCCACCTCTGTGACCGCATCAGCATCACAAGAGCACCTTCTACCGCTGGCGGGCAGACCC  
AAGAGCACCGTCAAAGGTAGCCACCCGCTTCTCTGCCAAGCACTTCTGCGAGGACAGTTTCCACCGTGG  
GGGCTTTGTGCCATTGCAGCAGTTCCTGCAGAGATTCCCTGAGATCTCCCGTTCTACCTACTATGCTTGG  
AAGCATGAGTTGCTGGGCTCTGGTGCCAACTCGGCCCTGGGCCCGGCCACTCCATCCAGGGAGGCCTGG  
CTGTGCCGGAGGTGGAGAGGCCACCGGGGAAAAGGCTGCTGAGGAGGTGGGGTCTCCTACTGGCAGC  
AGCGATGTTGAGCCCTCCTAGTATGATCTTAATGCAGCGTGCCAAGTCTTTCTTGGAGTATTGCATCTCT  
CTGAACAAACTGGTACCATATCGCTGCTTCAAATGCAGGTTCCCTGGCATCTCGAGGTCTACCTACTACA  
ACTGGAGGCGGAAAGCCCTCAGAAGGACCCCAAGTTTCAAGTTGTCCAAGCAGCTTTTGAAGTCTGTA  
GTCTCTCCAGCCAACAGATGTTGGGAAAGAGACCCCTTCTTTGAAGAGAGAAGCGGGAGAGGAGGAG  
ACAGGAAAAGCAGGAAGTGGGGCTCCTCTGACTTCCCGGGGCTCATATCCCAAAGATGCCCTTATCTC  
GTTGGCAGAGACGACTACGACGGCTGCCCGCAAGCAGGTGCTAAATGGGCACCTACCCTTCTGTGCTT  
CCGCTCCGCTATCCTAGTCTGTTACCTTCCACTTTTTGGGTATGAAAAGTCTTCCCGGAGATCGCC  
GGGATGCAGATTCCTCTTTGAGCCAGAGGAGGCAGAAGCCTCAGGGACGGCAGAAGCCCGAGGGACGGC  
AGAAGCCCGAGGAACAGCAGAAGCCCGAGGGACGGCAGAAGCCCGAGGGACGGCAGAAGCCAGTTGAACC  
ACAGGCTATGGAAGCTGATCAGAATGTACCGGCTATGGTGGTTCTCCAGCGGAGACACTGCCAGTGGCT  
ACTTCTCCAGAAGATGTCCCAGGAGGGCCTTCCAGAGAGGGAAACATCATTCAAGAGGCAGCTATGACCC  
AGAGCCAAACCCATAGTGGATCGTTGCCAAGCCAGACTCTGGCGGAGGCACCCGGGGCAGTGTGGGCA  
GGTGTGGTGTGACATGCTTACCACCACGAGGTTCAAGGCCAGGCCAAGCTGTTCTGCAGAAGCGG  
TTCCAGTCTAAGACTTTCCCTCCTACAAGGAGTCCAGGCGCTTCCCTCCCTACTGCCCGCTCCACCT  
ACTACATGTGGAAGCGGGCGCTCTATGAAGTCTCACACTGATTGATGGC

**ACGCGT**ACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR215031 protein sequence  
Red=Cloning site Green=Tags(s)

```

MTSRDQLVQQVLRDLQEAVESEGLEGLIGAALEAKQVLSSFTLPICQKGGPGAQVLEVDSVALSLYPEDA
PRNMLPLVCKGEGSLLFEATSLLLWGHTGLSLELRARTVVEMLLHRHYLQGMIDSKVMLQAVRYSLCSE
ESPEMTNLSFATLEAIFDADVKATCFPTSF SNVWHL YALASILECNIYSIYPMRNIKIRPYFNRVIMPRC
STHVTSMLHIMWAGQPLTSHLFRHQYFAPVVGLEEVEADCTASLNPVPPNLGPLLPPAKTLELLNREPGL
SYSHLCDRISITKSTFYRWRRTQEHKQK VATRFSAKHFLQDSFHRGGFVPLQQFLQRFPEISRSTYYAW
KHELLGSGANSALGPATPSREALAVPEVERPPGKAAEEVGCSSLAAAMLSPPSMILMQRKASFLEYCIS
LNKLVPYRCFKCRFPGISRSTYYNWRKALRRTPSFKLSQAAFETAESLQPTDVGKETPFSLKREAGEEE
TGKAGSGAPLTSRGLISPKMPLSRWQRRRLRAARKQVLNGHLPFCRFLRYPSSLPTFWVWKSLSRRSP
GMQIPSLSQRRQKPGGRQKPEGRQKPEEQKPEGRQKPEGRQKPEVPEQAMEADQNVPAVVPPAETLPVA
TSPEDVPGGPRSREGNIIQEAMTQSOPHSGSLPSQTLAEAPGGSDGQVLVMDMLTTTRFKAQAKLFLQKR
FQSKTFPSYKEFQALFPLTARSTYYMWKRALYEGLTLIDG
    
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001168588

**ORF Size:** 2220 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\\_001168588.1](#), [NP\\_001162060.1](#)

**RefSeq Size:** 3440 bp

**RefSeq ORF:** 2223 bp

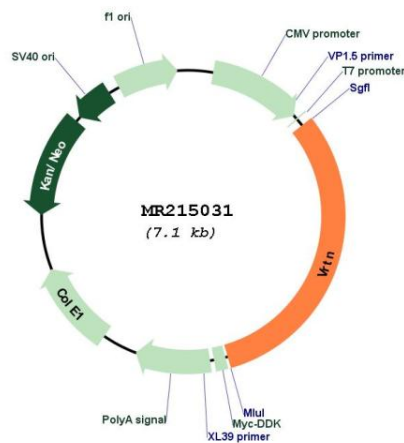
**Locus ID:** 432677

**UniProt ID:** [Q3SYK4](#)

**Cytogenetics:** 12 D1

**MW:** 83.1 kDa

### Product images:



Circular map for MR215031