

## Product datasheet for MR219019

### Vars2 (NM\_175137) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Vars2 (NM_175137) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Vars2
Synonyms:	1190004I24Rik; mKIAA1885; Vars2I
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR219019 representing NM_175137 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCTCATTGGCTCTGGCCTCTTTCCGGCCACCGCTCTGGGGCTGAGGCCCTCATGGGGTCTTTCCA  
GGCCCCAGGCACCTTTGTACACAGCCGAGCCCCACGGCTCCCCTGTCTCTCGGAGAACCGTGAAGCCAA  
ACAGAAGCGCCTGCGGAGAAACAGGCGGCCCTGGAGGCTGGGCTAGCTGAGAAGAGCAAGATACCTGCA  
GTGCCACTAAGGCTGGAGTACAAGGAGGTAGTATTGTATGAAATCCCCACCGGGCCAGGTGAAAAGA  
AAGATGTTTCTGGGCCCTGCCTCCTGCTTACAGTCCCCAGTATGTTGAAGCGGCCTGGTACCAGTGGT  
GGTGCGAGAGGGCTTCTCAAACCAAGATATCAGGCAAGGCTGCCCAAGCTACAGGGGAGACCTTTTCC  
ATGTGTATCCACCTCCAATGTACCCGGCTCCCTGCACATTGGCCATGCACTCACAGTGGCGATCCAGG  
ACGCACCTGTGCGCTGGCACCGGATGCGTGGGGATCGCGTGTGGATCCCCGGGTCTGATCACGCAGG  
AATTGCTACACAGGCCATGGTGGAGAAGCAGCTATGGAAGGAGCAGAGGGTGCGGAGACATGAGCTGAGC  
CGGAAGACTTCTCAGGGCCGTGTGGCAGTGAAACATGAGAAAGGAGGGGAGATCTATGAACAGCTGT  
GTGCTCTGGGTGCCTCTCTGGACTGGGATCGAGAGTGTTCACCATGGATGCCGGCTCCTCAGCAGCTGT  
GACGGAAGCTTTCGTGCGACTACAACCTCGGGATTGTTGTACCGGAACCGCCAGCTTGTCAACTGGTCA  
TGTACTTTGCGATCGGCCATCTCAGACATTGAGGTGAAAGCCGGCCTCTGCCTGGCCGACCGGTGCTGC  
AGCTGCCCGGATGCCCAACCCCTGTGTCTTTGGGCTCCTTGTCTGTTGCTTTCCCTGTGGATGGAGA  
GCCTGACACAGAGATTGTGGTGGAAACCACCGCCAGAGACCCTGCCTGGAGATGTGGCTGTGGCCGTT  
CATCCAGATGACCCGAGATACACGCATTTACATGGGCGACAGCTCCGTATCCTTTGACAGGACAGCTTC  
TCCCCCTCATCACAGACACCACTGTTACGGCCATGTGGGCACAGGGCAGTGAAGGTGACTCCTGCTCA  
CAGTCCAATAGATGCTGAGATAGGGACCCGGCATGGCCTGACCCCACTGAGTGTGATTGCAGAGGATGGG  
ACCATGACATCCCTCTGTGGAGACTGGTGCAGGGCCTTATCGATTTGTGGCCCGGAAAAGATCATGT  
GCACACTGAGGGAGCAGGGCCTATCCGGGCCTACAGGAGCACCCCATGGTACTGCCCATCTGCAGCCG  
TTCGGGGACGTGGTGGAGTACCTGCTGAAGAGCCAGTGGTTTGTCCGCTGCCAGGAAATGGGGACCTA



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GCTGCCAAGGCTGTGGAGTCAGGGGCTCTGGAGCTCTGGCCCTCCTTCCACCAGAAGAGCTGGCAACACT  
 GTTTGGCCACATTGGGGACTGGTGTGTCTCCCGCAGCTGTGGTGGGGCCATCAGATCCAGCCTACCG  
 GGTATCGGGGAGAAATGCAGAGGATGACAGGAAGGAATGTTGGGTGGTGGGACGGTCAGAGGCTGAGGCC  
 AGAGCGGTAGCAGCAAAACGGACAGGGAGACCAGAGGCAGAGCTGACCCCTGGAGAGGGACCTGACGTCC  
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 TGCTCACTTACCCCTCACCTCTTGGAAACGGGTAGTGACCTGCTGATGTTCTGGGTGGGCCGATG  
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 GGAGCTGCAGGTGCTGCAGGCCAAGCTGAGAGACGGTAACTTGGACCCTGGAGAGCTCGCCGTTGCAGCC  
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 GCTCCCATGGAATCCTGGGGGGCAGCTGCACCTGTCTGTCTGAGGTCTGAACTACCGCCATTTCTG  
 CAACAAGCTCTGGAATGCCCTGCGCTTTGTCTCCGTGCCCTGGGGATAACTTCGTGCCCAACCAGCA  
 GAGGAGGTAACCCCTCCTCCTCCATGGATGCCTGGATTCTAAGCCGCTGGCCTTTCAGCCAGCGAAT  
 GTGAGAGAGGCTTCTGAGTCGGGAGCTTTCGCTTGTACCCACACCCTGTATCATTCTGGCTCCACAA  
 TCTCTGTGATGTCTACCTGGAAGCAGTGAAGCCAGTGTGTCGAGCGTGCCCGTCCCCAGGACCCCT  
 CAGGTCCTGTTTTCTGTGCAGACGTGGGTCTACGCCTCCTTGCCCCGCTGATGCCCTTCTGGCCGAGG  
 AGCTGTGGCAGAGGCTGCCCCCAGGCCAGGCGGCCCTTGCCCCCAGCATCTGTGTGGCCCCCTACCC  
 CAGCACCCGACGCTGGAGTTCTGGCGCCAGCCAGAGCTGGAGCGCTGCTTCTCCAGAGTCCAAGAGGT  
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 GCTCGGACCCAGGAGAACAAGGCCTAGTCCAGCCCTTTCTGGAGCCTCTGGGCATCTGAGCCACTGCGG  
 GGCTGTAGGATTCCTGTCCCCAGGGCAGCAGCTCCCTCAGGGTGGGCCCTGACCCACTGGGTGACACC  
 ATGAAGTCTACATGGAGCTGCAGGGCCTGGTGGACCCCAAGCCAGCTGCCCCGGTCACTGCCCGAA  
 GGCAGAAGTTACAGAAGCAGCTTGATGACCTGTTGAACCGACCATGTGAGAGGGTCTTGACAGAGGGCA  
 GCAGAGGATTTCCCTCCCTCCATCTGGAATTGTCAAAGCTGGACCAGGCAGCCTCTACCTACAGCAACTG  
 ATGGATGAGGCTCCCAGTCCAGGGAGCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR219019 representing NM\_175137  
 Red=Cloning site Green=Tags(s)

MPHLPLASFRPPLWGLRPSWGLSRPQALCTQPEPHGSPVSRNRREAKQKRLREKQAALAEGLAEKSKIPA  
 VPTKAWSHKEVLYEIPGTGPEKKDVSGLPPAYSPQYVEAAWYQWVREGFFKPEYQARLPQATGETFS  
 MCIPPPNVTGSLHIGHALTVAIQDALVRWHRMRGDRVLWIPGSDHAGIATQAMVEKQLWKEQVRRHEL  
 REDFLRAVWQWKHEKGGIEYQLCALGASLDWDRECFMDAGSSAAVTEAFVRLYNSGLLYRNRQLVNW  
 CTLRSAISDIEVESRPLPGRTVLQLPGCPTPVSFGLLASVAFVVDGEPDTEIVVGTTRPETLPGDVAVAV  
 HPDDPRYTHLHGRQLRHPLTGQLLPLITDTTVQPHVGTGAVKVTPAHSPIDAEIGTRHGLTPLSVIAEDG  
 TMTSLCGDWLQGLHRFVAREKIMCTLREQGLFRGLQEHPMVLPICSRSGDVVEYLLKSQWFVRCQEMGDL  
 AAKAVESGALELWPSFHQKSWQHWFAHIGDWCVSRQLWWGHQIPAYRVIGENAEDDRKECVVGRSEAEA  
 RAVAAKRTGRPEAELTLERDPDVLDTWFSSALFPFALGWPRETDLAHFYPLTLLTGSDLLMFVWGRM  
 VMLGTQLTGQLPFKLVLLHSMVRDRQGRKMSKSLGNVLDPRDIIISGQELQVLQAKLRDGNLDPGELAVAA  
 AAQKKDFPYGIPCEGTDALRFALCSHGILGGDLHLVSEVLNRYRHFKNLWNALRFVLRALGDNFVQPA  
 EEVTPSSPMDAWILSRLAFAASECERGFSLRELSLVTHTLYHFWLHNLCDVYLEAVKPVLSVPRPPGPP  
 QVLFSCADVGLRLLAPLMPFLAEELWQRLPPRPGGLAPSICVAPYPSTRSLEFWRQPELERCFSRVQEV  
 VQALRALRATYQLTKARPQVLLQCSDPGEQGLVQPFLEPLGILSHCGAVGFLSPGAAAPSGWALTPLGDT  
 MKIYMELQGLVDPQSQLPRLTARRQKLQKQLDDLLNRTMSEGLAERQQRISLHLEL SKLDQAASYLQQL  
 MDEAPSAREL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9095\\_h12.zip](https://cdn.origene.com/chromatograms/mm9095_h12.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_175137

**ORF Size:** 3180 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\\_175137.4](#), [NP\\_780346.3](#)

**RefSeq Size:** 4441 bp

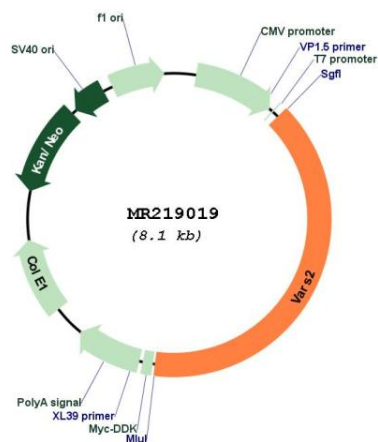
**RefSeq ORF:** 3183 bp

**Locus ID:** 68915

**UniProt ID:** [Q3U2A8](#)

Cytogenetics: 17 B1  
 MW: 118.5 kDa

**Product images:**



Circular map for MR219019