

## Product datasheet for **RR206349**

### Vars2 (NM\_213563) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Vars2 (NM\_213563) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Vars2  
**Synonyms:** Vars2l; Varsl  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR206349 representing NM\_213563  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGGATCGCC

ATGCCTCATTTACCTCTGGCCTCTTTCCGGCCACCTCTCTGGGGCTGAGGCCCTCATGGGGTCTCGCCA  
 GGCCCGGGCACTTTGTACACAACCGGAGCCCCACGGCTCCCCAGTCTCTCGGAGAACCGTGAAGCCAA  
 ACAGAAGCGCCTGCGGGAGAAGCAGCGGCCCTGGAGGCTGGGCTGGCTGAGAAGAGCAAGACACCTGCA  
 GTGCCACTAAGGCCTGGAGTCACAAGGAAGTAGTATTGTATGAAATCCCCACCCGGCCAGGTGAAAAGA  
 AAGATGTTTCCGGGCCCTGCCTCCTGCTTACAGCCCCAATATGTTGAAGCAGCCTGGTACCAAGTGGT  
 GGTGCGAGAGGGCTTCTCAAACCAGAGTATCAGGCAAGGCTGCCCAAGCTACAGGGGAGACCTTTTCC  
 ATGTGTATCCCACCTCCAATGTACCGGCTCCCTGCACATTGGCCATGCGCTCACAGTGGCGATACAGG  
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 AATTGCTACACAGGCTGTGGTGGAGAAACAGCTGTGGAGGGAGCGGAGAGTGGGAGACACGAGCTGAGC  
 CGGGAGGACTTCTCAGGGCTGTGTGGCAGTGGAAACAGGAGAAAGGAGGGGAGATCTACGAGCAGCTGT  
 GCGCCCTGGGCGCCTCTCTGGACTGGGATCGAGAGTGTTCACCATGGATGCCGGCTCCTCAGCAGCTGT  
 GACGGAAGCTTTTGTGCGACTCTATGACCTGGGATTGTTGTACCGGAACCGCCAGCTTGTCAACTGGTCA  
 TGTACTCTGAGATCGCCATCTCAGACATTGAGGTAGAAAGCCGGCCCTACCTGGCCGACGGTGTTC  
 GGCTGCCCGGCTGCCAATCCCCGTGTCTTTGGGCTCCTGGTTCCATTGCTTTCCCTGTGGATGGAGA  
 CCCTGGCACAGAGATTGTGGTGGAAACCACCGCCAGAGACCCTGCCTGGAGATGTGGCTGTGGCCGT  
 CACCCAGATGACCAAGATACACGCATTTACATGGGCGCCAGCTCCGTACCCCTTTGACAGGACAGCATC  
 TCCCCCTCATCACAGACACCACTGTTACAGCCATGTGGGTACAGGGCGGTGAAGGTGACTCCTGCTCA  
 CAGTCCCGCAGACGCTGAGATGGGACCCGGCATGGCTTGACCCCACTGAGTGTGATTGCAGAGGATGGG  
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 GCACACTGAGGGAGCGGGCCTGTTCCGGGCCTACAGGAGCACCCATGGTGTGCCATCTGCAGCCG  
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 GCTGCCAAGGCTGTGGAGTGGGGGCTCTGGAGCTCTGGCCCTCCTTCCACCAGAAGAGCTGGCAACT



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GGTTTGCCACATTGGGGACTGGTGTGTCTCCCGGCAGCTGTGGTGGGGCCATCAGATTCACGCCTACCG  
 GGTCCGGCGGGGAGAAAGCAGAGGATGACAGGGAGGAATGCTGGGTGGTTGGACGGTCAGAGGCTGAGGCC  
 AGAGCAGCAGCAGCAAAACAGACAGGAAGACCAGAGGCAGAGCTGACCTGGAGAGGGACCTGATGTCC  
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 TGCTCGCTTACCCCTCACACTTCTGAAACGGGCAGTGACCTCCTGACGTTCTGGTGGGCCGATG  
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 GAGAAGGTAACGCCCTCCTCCCCATGGACGCTGGATTCTGAGCCGCTTGGCCTTTCGGCCAACGAGT  
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 TCTCTGTGATGTCTACCTGGAAGCGGTGAAGCCAGTGTGTGAGTGCGCCCTGTCCCCAGGACCCCT  
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 CAGTGGTCACAGCCTGGTGTGATCGTGGGACGAGTCTGGCGCCAGCCAGAGTTGGAGCACTGCTTCTCC  
 CGAGTCCAAGAGATTGTACAGGCACTGCGGGCGCTTCGAGCCACCTACCAGCTCACAAAGAGCCCGACCC  
 ATGTGCTGCTACAGAGCTCAGACCCAGGAGAACAAGGCCATGTCAGCCCTTCTGGAACCTCTGGGCGT  
 CCTGAGCCACTGTGGGCTGTAGATTCTGCCCCAGGAGCAGAGCTCCCTCAGGGTGGGCCCTGGCC  
 CCACTGGGTGACACCATAAAGATCTACATGGAGCTGCAGGGCCTGGTGGACCCAGAGCCAGCTACCTC  
 GGCTAGCTGCCCGGAGGCAGAAGTTACAGAAGCAGCTTGTGACCTTTGAACCGGACCGTGTCCGATGG  
 TCCTGCAGAGAGGCAGCAGAGGATTTCTCCCTCCAGCTGGAATTGTCAAAGCTGGACAGGCAGCCTCT  
 CACCTACAGCAACTGATGGAGGAGGCTCCAGACGCCAGGGAGCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR206349 representing NM\_213563  
 Red=Cloning site Green=Tags(s)

MPHLPLASFRPPLWGLRPSWGLARPRALCTQPEPHGSPVSRNRREAKQKRLREKQAALAEGLAEKSKTPA  
 VPTKAWSHKEVLYEIPTRPGEKKDVSGLPPAYSPQYVEAAWYQWWVREGFFKPEYQARLPQATGETFS  
 MCIPPPNVTGSLHIGHALTVAIQDAFVRWHRMRGDRVLWIPGSDHAGIATQAVVEKQLWRERRVRRHEL  
 REDFLRAVWQWQEKGGIEYQLCALGASLDWDRECFMDAGSSAAVTEAFVRLYDLGLLYRNRQLVNWS  
 CTRLSAISDIEVESRPLPGRTVLRPLPGCPIPVSFGLLVSIAPVDGDPGTEIVVGTTRPETLPGDVAVAV  
 HPDDPRYTHLHGRQLRHPLTGQHLPLITDTTVQPHVGTGAVKVTPAHSPADAEMGTRHGLTPLSVIAEDG  
 TMTSLCGDWLQGLHRFVAREKIMCTLRERGLFRGLQEHPMVLPICSRSGDVVEYLLKSQWFVRCQEMGDR  
 AAKAVESGALELWPSFHQKSWQHWFAHIGDWCVSRQLWWGHQIPAYRVGGEKAEDDREECWVVRSEAEA  
 RAAAAKQTRPEAELTLERDPDLDTWFSALFPF SALGWPQETPDLARFYPLTLLTGSDLLTFWVGRM  
 VMLGTQLTGQLPF SKVLLHSMVRDRQGRKMSKSLGNVLDPRDIIISGQELQVLQAKLRDGNLDQGEAVAA  
 AAQKKDFPYGIPECGTDALRFALCSHGILGGDLHL SVSEVLNRYRHF CNKLWNALRFILRALGDDFVPQPA  
 EKVTSSPMDAWILSRLAFAANECERGFSLRELSLVTHLYHFWLHNLCDVYLEAVKPVLSSAPCPPGPP  
 QVLFSCADVGLRLLAPLMPFLAEELWQLRPPRQGGSMAPSICVAPYPSGHSLSVRGQESWRQPELEHCF  
 RVQEI VQALRALRATYQLTRARPHVLLQSSDPGEQGLVQPFLEPLGVL SHCGAVGFLPPGAAAPSGWALA  
 PLGDTIKIYMELQGLVDPQSQLPRLAARRQKLQKQLDDLLNRTVSDGPAERQQRISLQLELSKLDQAAS  
 HLQQLMEEAPDAREL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI



<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_213563.1</a> , <a href="#">NP_998728.1</a>
<b>RefSeq Size:</b>	4099 bp
<b>RefSeq ORF:</b>	3198 bp
<b>Locus ID:</b>	309596
<b>UniProt ID:</b>	<a href="#">Q6MG21</a>
<b>Cytogenetics:</b>	20p12
<b>MW:</b>	118.9 kDa
<b>Gene Summary:</b>	may act as a valine-tRNA ligase in protein synthesis [RGD, Feb 2006]