

Product datasheet for **MG219019**

Vars2 (NM_175137) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vars2 (NM_175137) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Vars2
Synonyms:	1190004I24Rik; mKIAA1885; Vars2I
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG219019 representing NM_175137 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTCATTGGCTCTGGCCTCTTTCCGGCCACCGCTCTGGGGCTGAGGCCCTCATGGGGTCTTTCCA
GGCCCCAGGCACCTTTGTACACAGCCGAGCCCCACGGCTCCCCTGTCTCTCGGAGAACCGTGAAGCCAA
ACAGAAGCGCCTGCGCGAGAAACAGGCGGCCCTGGAGGCTGGGCTAGCTGAGAAGAGCAAGATACCTGCA
GTGCCACTAAGGCTGGAGTACAAGGAGGTAGTATTGTATGAAATCCCCACCGGGCCAGGTGAAAAGA
AAGATGTTTCTGGGCCCTGCCTCCTGCTTACAGTCCCCAGTATGTTGAAGCGGCCTGGTACCAGTGGT
GGTGCAGAGGGCTTCTTCAAACAGAGTATCAGGCAAGGCTGCCCAAGCTACAGGGGAGACCTTTTCC
ATGTGTATCCACCTCCAATGTACCCGGCTCCCTGCACATTGGCCATGCACTCACAGTGGCGATCCAGG
ACGCACCTGTGCGCTGGCACCGGATGCGTGGGGATCGCGTGTGGATCCCCGGGTCTGATCACGCAGG
AATTGCTACACAGGCCATGGTGGAGAAGCAGCTATGGAAGGAGCAGAGGGTGGGAGACATGAGCTGAGC
CGGAAGACTTCTCAGGGCCGTGTGGCAGTGGAAACATGAGAAAGGAGGGGAGATCTATGAACAGCTGT
GTGCTCTGGGTGCCTCTCTGGACTGGGATCGAGAGTGTTCACCATGGATGCCGGCTCCTCAGCAGCTGT
GACGGAAGCTTTCGTGCGACTACAACCTCGGGATTGTTGTACCGGAACCGCCAGCTTGTCAACTGGTCA
TGTACTTTGCGATCGGCCATCTCAGACATTGAGGTGAAAGCCGGCCTCTGCCTGGCCGACCGGTGCTGC
AGCTGCCCGGATGCCAACCCTGTGTCTTTGGGCTCCTTGTCTGTTGCTTTCCCTGTGGATGGAGA
GCCTGACACAGAGATTGTGGTGGAAACCACCGCCAGAGACCCTGCCTGGAGATGTGGCTGTGGCCGT
CATCCAGATGACCCGAGATACACGCATTTACATGGGCGACAGCTCCGTATCCTTTGACAGGACAGCTTC
TCCCCCTCATCACAGACACCACTGTTACGGCCATGTGGGCACAGGGCAGTGAAGGTGACTCCTGCTCA
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ACCATGACATCCCTCTGTGGAGACTGGTGCAGGGCCTTATCGATTTGTGGCCCGGAAAAGATCATGT
GCACACTGAGGGAGCAGGGCCTATCCGGGCCTACAGGAGACCCCATGGTACTGCCCATCTGCAGCCG
TCCGGGGACGTGGTGGAGTACCTGCTGAAGAGCCAGTGGTTTGTCCGCTGCCAGGAAATGGGGACCTA



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GCTGCCAAGGCTGTGGAGTCAGGGGCTCTGGAGCTCTGGCCCTCCTTCCACCAGAAGAGCTGGCAACACT
 GGTTTGCCACATTGGGGACTGGTGTGTCTCCCGGACGCTGTGGTGGGGCCATCAGATCCAGCCTACCG
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 GCAGAGGATTTCCCTCCCTCCATCTGGAATTGTCAAAGCTGGACCAGGCAGCCTCTACCTACAGCAACTG
 ATGGATGAGGCTCCCAGTCCAGGGAGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG219019 representing NM_175137
 Red=Cloning site Green=Tags(s)

MPHLPLASFRPPLWGLRPSWGLSRPQALCTQPEPHGSPVSRNRREAKQKRLREKQAALAEGLAEKSKIPA
 VPTKAWSHKEVLYEIPGTGPEKKDVSGLPLPPAYSPQYVEAAWYQWWVREGFFKPEYQARLPQATGETFS
 MCIPPPNVTGSLHIGHALTVAIQDALVRWHRMRGDRVLWIPGSDHAGIATQAMVEKQLWKEQRRRHELS
 REDFLRAVWQWKHEKGGIEYQLCALGASLDWDRECFMDAGSSAAVTEAFVRLYNSGLLYRNRQLVNWS
 CTLSAISDIEVESRPLPGRTVLQPGCPTVPSFGLLASVAFVVDGEPDTEIVVGTTRPETLPGDVAVAV
 HPDDPRYTHLHGRQLRHPLTGQLLPLITDTTVQPHVGTGAVKVTPAHSPIDAEIGTRHGLTPLSVIAEDG
 TMTSLCGDWLQGLHRFVAREKIMCTLREQGLFRGLQEHPMVLPICSRSGDVVEYLLKSQWFVRCQEMGDL
 AAKAVESGALELWPSFHQKSWQHWFAHIGDWCVSRQLWWGHQIPAYRVI GENAEDDRKECWWVGRSEAEA
 RAVAAKRTGRPEAELTLERDPDLDTWFSALFPF SALGWPRETPDLAHFYPLTLLTGSDLLMFWVGRM
 VMLGTQLTGQLPF SKVLLHSMVRDRQGRKMSKSLGNVLDPRDIIISGQELQVLQAKLRDGNLDPGELAVAA
 AAQKKDFPYGIPCEGTDALRFALCSHGILGGDLHL SVSEVLNRYRHF CNKLWNALRFVLRALGDNFVPQPA
 EEVTPSSPMDAWILSRLAFAASECERGFSLRELSLVTHLYHFHLHNLCDVYLEAVKPVLSVPRPPGPP
 QVLFSCADVGLRLLAPLMPFLAEELWQRLPPRPGGLAPSI CVAPYPSTRSLEFWRQPELERCF SRVQEV
 VQALRALRATYQLTKARPQVLLQCSDPGEQGLVQPFLEPLGILSHCGAVGFLSPGAAAPSGWAL TPLGDT
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 MDEAPSAREL

TRTRPLE - GFP Tag - V

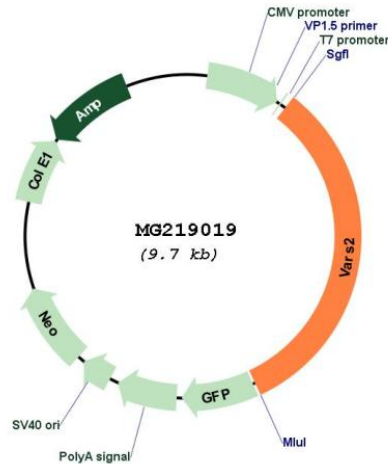
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	<ol style="list-style-type: none">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:	<u>NM_175137.4</u> , <u>NP_780346.3</u>
RefSeq Size:	4441 bp
RefSeq ORF:	3183 bp
Locus ID:	68915
UniProt ID:	<u>Q3U2A8</u>
Cytogenetics:	17 B1