

## Product datasheet for **MG211867**

### Vars (NM\_011690) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Vars (NM_011690) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Vars
Synonyms:	Bat6; D17H6S56E; G7a; Vars2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211867 representing NM_011690 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCCATCCTCTACGTCTCCTCACCCGACGCCTTCCCCAGCCTCCGAGCCCTCATCGCTGCCCGAT  
ACGGGGAAGCTGGTGACGGTCCCGGGTGGGAGGCCCTCACCCCGCATCTGCTTGACGCCTCCCCGAG  
CAGCCGGACTCCATTCCTCCGCTCGCTGCCGCCCTGGAGCAGGGACCTGGCGGCTGTGGGTGTGG  
GGGCCCCGGCTGTAGCTCAGCTGTTGTGGCTGCAGGCCTGGGGGACCCGGGGCAGCCGGGCAGCTG  
TCCTGGTCCAGCAGTGGTTCAGTTATGCTGACACGGAGCTCATACCCGCTGCCTGCGGGGACCCCTGCC  
TGCCCTGGGACTTCGAGGTCCTGGTCAGGATCCCCAGGCTGCCCTTGGGGCCCTGGGCAAGGCCTTGAAC  
CCCTTGGAGGACTGGCTGCGGCTGCACACCTACCTGGCTGGAGATGCCCCACTCTGGCTGACTTAGCTG  
CTGTGACAGCCTTACTGCTGCCTTCCGATACGTTCTGGACCCTTCTGCCCGCCGGATCTGGGGCAATGT  
GACTCGCTGGTTAACACTTGTGTCCGGCAACCGGAATTCGGGCTGTGCTGGGAGAAGTGGCCCTGTAC  
TCGGGGCCAGGTCTGTCACTCAACAGCCAGGCTCTGAGGTCATCGCACCCCAAAAAACCCCGCAGC  
TCAAAAAAGAGGCAAAGAAACGGGAGAACTAGAGAAATCCAGCAGAAGCAGAAGACCCAGCAGCAGCC  
CCCGCAGGAGAGAAGAAACAAAACAGAGAAGAAGGAGAAACGGGACCCTGGGGTCAATACCTATGAC  
CTCCCTACCCACCGGGGAGAAGAAAGATGTAAGTGGCGCCATGCCGACTCTACAGCCCTCAGTATG  
TGGAGGCTGCCTGGTATCCATGGTGGGAGCGGCAGGGCTTCTTCAAGCCAGAGTACGGGGCTCCTAGTGT  
GTCAGCACCAATCCCCGGGTGTCTTATGATGTGCATCCCACCCCAACGTGACAGGCTCCCTGCAC  
CTGGGCCACGCACTACCAACGCCATCCAGGACTCCCTGACTCGATGGCACCGCATGCGTGGGGAGACCA  
CCCTATGGAACCCAGGCTGTGACCATGCAGGCAATGCCACCCAGGTGGTGGTGGAAAAGAAGCTCTGGAA  
AGAGCGGGGTCTGAACCGGCACAGCTGGGCCGAGGCTTTCTTGAGGAGGTCTGGAAGTGGAAAGCC  
GAGAAGGGTGACAGGATTTACCACCAATTAAGAAACTTGGCAGCTCCCTGGACTGGGATCGAGCCTGCT  
TCACCATGGATCCTAAATTTGTCAGCAACTGTGACAGAGGCCTTTGTTAGGCTCCACGAAGAAGGGTGCAT  
CTACCGTAGCACCCGCTGGTCAACTGGTCTGCACCCTCAACTCAGCCATTTCTGACATTGAGGTGGAT



[View online >](#)

AAGAAGGAGCTGACAGGCCGCACCCTGCTTCTGTGCCTGGCTACAAGGAGAAGGTGGAGTTGGGGTCC  
TTGTGTCCTTTGCTACAAGGTCCAAGGCTCAGACAGCGACGAGGAGGTGGTGGTGGCAACAACCCGGAT  
TGAGACCATGCTGGGAGACGTGGCTGTAGCTGTGCACCCCAAGGATCCCAGATACCAGCACTTAAAGGGA  
AAGTGTGTCGTCCACCCATTCTGTCCCGGAGCCTTCCCATCGTCTTCGATGACTTTGTAGACATGGAGT  
TTGGCACAGGTGCCGTGAAGATCACCCCGGCACATGACCAAAATGACTATGAGGTTGGGCAGCGACACAG  
GCTCGAGGCCATTAGCATCATGGACTCAAAGGGGGCCCTCATCAATGTGCCTCCACCTTTCCTGGCCTG  
CCCAGGTTTGAGGCCAGGAAGGCTGTGCTGGCGCACTGAAGGAGCGGGGCTGTTCCGTGGAATCAAGG  
ACAACCCCATGGTGGTGCCGCTTTGCAACCGCTCCAAGGATGTGGTGGAGCCTCTGTTAAGGCCACAATG  
GTACGTGCGCTGTGGGAGATGGCTCAGGCTGCCAGTGTGCTGTGACCCGGGGTACCTCCGTATACTG  
CCTGAGGCCCATCAACGGACGTGGCATTCTTGGATGGACAACATCAGAGACTGGTGCATCTCTCGGCAGC  
TGTGGTGGGGCCACCGAATCCCTGCCTACTTTATCACCGTCCATGACCCGGCAGTACCCCTGGGGAGGA  
CCCTGATGGGCGTACTGGTAAGCGGACGCACTGAAGCAGAGGCCCGAGAGAAGGCAGCACGGGAGTTT  
GGAGTGTCCCCTGACAAGATCAGCCTTCAGCAAGATGAGGATGTGTTGGACACCTGGTTCTCCTCCGGTC  
TCTTCCCTTCTCCATCTTTGGTGGCCCAATCAGTCAGAAGACCTCAGTGTGTTCTACCCTGGGACCT  
GTTGGAGACAGGCCATGATATCCTCTTCTTCTGGGTGGCCGGATGGTCACTGCTCGGCCTGAAGCTCACT  
GGGAAGCTGCCCTTCAGAGAGGTCTATCTCCATGCAATCGTGCCTGATGCTCATGGCAGGAAGATGAGCA  
AGTCTCTTGGCAATGTCATCGACCCCTGGATGTCATCCATGGAGTTTCCTTGCAGGGCCTCTATGACCA  
ACTACTGAACAGCAACCTGGATCCCAGTGGAGTGGAGAAAGCCAAAGAAGGACAGAAGGCCGACTTTCCA  
GCAGGGATTCCCGAGTGTGGCACTGATGCCCTACGCTTTGGACTCTGTGCCTACACATCCCAAGTGCAG  
ACATCAACCTGGATGTGAACAGGATCCTGGGGTACCGTCACTTCTGCAACAACTCTGGAATGCTACCAA  
GTTTGCCTGCGCGCCTTGGGAAGGGCTTTGTGCCCTCAGCAACCTCCAAGCCTGAAGGGCACGAGAGC  
CTGGTGGACCGCTGGATCCGACGCGCCTAACTGAGGCCGTGAGGCTCAGCAATGAAGGCTTCCAGGCTT  
ACGATTTCCCGCCATCACACCGCCAGTACAGCTTTTGGCTCTATGAGCTCTGTGATGTCTATTTGGA  
GTGTCTAAAACCTGTGCTGAATGGAGTGGACCAGGTGGCGGAGAGTGTGCTCGGCAGACCCTCTACACC  
TGCTGGATGTTGGCTGCGGCTGCTCTCGCCCTTCATGCCCTTGTGACAGAGGAGCTATTCCAGAGAC  
TGCCCCGGCGGACACAAAAGCGCCTGCTAGCCTCTGTGTACCCCGTACCCAGAGCCCTCAGAGTGTCT  
CTGGAAGGACCCTGAAGCTGAAGCTGCTTTGAACTAGCTCTGAGCATCACTCGAGCTGTGCGCTCCCTG  
CGTGTGACTACAACCTGACCCGCACCAGGCCGACTGTTTCTTGGAGTAGCCGATGAGGCCACAGGTG  
CCTTGGCCTCGGCAGTGTGGGCTACGTGCAGGCTCTGGCCAGTGCAGGCGTGGTGGCTGTCTCGCCCT  
GGGTGCTCCTGCACCGCAGGGCTGCGCTGTAGCTGTGGCTTCTGACCGCTGCTCCATCCACCTGCAGCTG  
CAGGGGCTAGTGGACCCAGCCCGGAGTTGGGCAAGCTGCAGGCCAAGCGAAGTGAAGGCACAGCGGAGG  
CTCAGCGGCTGCAGGAGCGCCGTGCTGCCCTCAGCTACTCAGCAAAGGTGCCCTTGAGGTCCAGGAGGC  
AGATGAAGCGAAGTTGCAACAGACAGAGGCGGAGCTCAGGAAGGTGGATGAGCCATCGCCCTGTTCCAG  
AAGATGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG211867 representing NM\_011690  
 Red=Cloning site Green=Tags(s)

```

MSILYVSPHPDAFPSLRALIAARYGEAGDGPWGPHPRICLQPPSSRTPFPPRRLPALEQGGGLWVW
GAPAVAQLLWPAGLGGPGGSRAAVLVQQWVSYADTELIPAACGATLPALGLRGPQDPQAALGALGKALN
PLEDWLRLHTYLADAPTLADLAAVTALLLPFRYVLDPSARRIWGNVTRWFNTCVRQPEFRAVLGEVALY
SGARSVTQQPGSEVIAPQKTPAQLKKEAKKREKLEKFKQKQKTKQQPPHGEKKPKPEKKEKRDPGVITYD
LPTPPGEKKDVSAMPDSYSPQYVEAAWYPWVERQGGFFKPEYGRPSVSAPNPRGVFMMCIPPPNTGSLH
LGHALTNAIQDSLTRWHRMGETTLWNPBGCDHAGIATQVVVEKKLWKERGLNRHQLGREAFLEEVWVWKA
EKGDRIYHQLKKLGSSLDWDRACFTMDPKLSATVTEAFVRLHEEGVIYRSTRLVNWSCTLNLSAIDIEVD
KKELTGRLLPVPGYKEKVEFGVLVSFAKVGQSDSDEEVVATRIETMLGDVAVAVHPKDPHYQLKKG
KCVVHPFLSRSLPIVFDDFVDFMEFGTAVKITPAHDQNDYEVGQRHRLEAISIMDSK GAL INVPPFLGL
PRFEARKAVLAALKERGLFRGIKDNPMVPLCNRSKDVVEPLL RPQWYVRCGEMAQAASA AVTRGDLRIL
PEAHQRTWHSWMDNIRDWCISRQLWGHRI PAYFITVHDP AVPPGEDPDGRYWVSGRTEAEAREKAAREF
GVSPDKISLQDEEDVLDTWFS SGLFPFSIFGWPNQSEDL SVFYPGTLLLETGHDILFFWVARMVMLGLKLT
GKLPFREVYLAIVRDAHGRKMSKSLGNVIDPLDVIHGVSLQGLYDQLLNSNLDPSEVEKAKEGQKADFP
AGIPECGTDALRFGLCAYTSQGRDINLDVNRILGYRHF CNKLWNATK FALRGLGKGFVPSATSKPEGHES
LVDRWIRSLTEAVRLSNEGFAQYDFPAITTAQYSFWLYELCDVYLECLKPVNLNGVDQVAAEARQTLTYT
CLDVGLRLLSPFMPFVTEELFQRLPRRTPKAPASLCVTPYPEPSECSWKDPEAEAALELALSITRAVRS
RADYNL TRTRPDCFLEVADEATGALASAVSGYVQALASAGVVAVLALGAPAPQGC AVAVASDRCSIHLQL
QGLVDPARELGKLAQRSEAQRQAQRLQERRAASSYS AKVPLEVQEAD EAKLQQTEAELRKVDEAIALFQ
KML
    
```

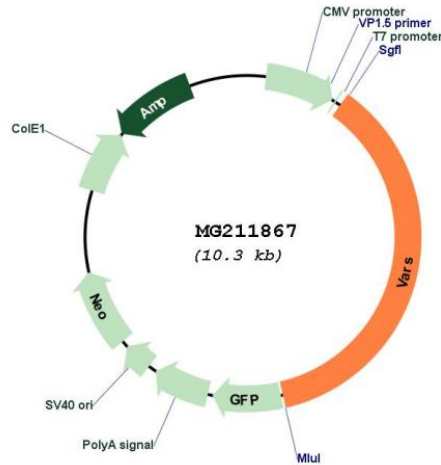
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_011690

**ORF Size:** 3789 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\\_011690.2](#), [NP\\_035820.2](#)

**RefSeq Size:** 4021 bp

**RefSeq ORF:** 3792 bp

**Locus ID:** 22321

**UniProt ID:** [Q9Z1Q9](#)

**Cytogenetics:** 17 18.54 cM