

## Product datasheet for **MG221554**

### Vgll2 (NM\_153786) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Vgll2 (NM\_153786) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Vgll2  
**Synonyms:** C130057C21Rik; Vgl; vgl-2; Vi; VIT; VITO-1; Vito1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG221554 representing NM\_153786  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGCTGTCTGGATGTTATGTACCAGGTCTACGGTCCCCCGCAGCCTTATTTTCGCAGCCGCTACACTC  
 CCTACCACCAGAACTAGCCTACTACTCAAAAATGCAGGAAGCTCAAGAGTGCGCCAGCCCTGGCAGCAG  
 TGCCAGCGGGAGCTCCTCATTTCACCCCAACCCAGCCAGTGTCAAGGAAGAGGAGGGCAGCCAGAG  
 AAAGAGCGCCCGCCGAAGCTGAGTACATCAACTCCAGATGTGTCCTCTTACCTACTTCCAGGGGGACA  
 TCAGCTCTGTGGTGGACGAACATTTTCAGTAGGGCCCTTAGCCACCAAGCAGCTACACCCCAAGCTGTAC  
 CAGCAGCAAAGCACAGAAAGCTCTGGACCCTGGAGAGCAGAAGGCACCTTCCCGATGAGCCAGCGCAGC  
 TCCCCCGCCTCCTTCTGGAACAGCGCGTACCAGGCGCCTGTGCCCGGCCACTAGGCAGTCTCTGGCCG  
 CCGCACACTCGGAGCTGCCCTTTGCCACCGACCCCTACTCTCCCGCCACTCTGCACGGCCACCTGCACCA  
 GGGCGCGGCCGACTGGCACCACGCGCACCCGCACCACGCGCACCCGCACCATCCCTATGCCTGGGGCGC  
 GCCCTGGGAGCACAAGCCTCTGCCTACCCGCGGCCAGCAGTGCACGAGGTCTACGCGCCCACTTCGACC  
 CGCGCTATGGGCCGCTGCTCATGCCCGCGCCACTGGCCGCCCGGCCGCTGGCCCTGCCTCGGGCCG  
 GGCTCCCGGCAGCCCTCCCTGCGAGCTTGGCCCAAGGGCGAGCCGGCGGGCAGCGCATGGGCTGCGCCC  
 GGGGACCCCTTCGTGAGCCCCACGGGGATGTGGCCAGAGCCTGGGTCTCAGCGTGGACTCAGGTAAGC  
 GGAGGAGGGAATGCAGTCTCCCCTCTGCCCTCCGGCACTGTACCCGACTCTGGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG221554 representing NM\_153786  
 Red=Cloning site Green=Tags(s)

MSCLDVMYQVYGGPPQPYFAAAYTPYHQKLAYYSKMQEAQECASPGSSASGSSSFSNPPTASVKEEEGSPE  
 KERPEAEYINSRCVLFYFQGDISSVDEHFSRALSHPSYTPSCTSSKAHRSSGPWRAEGTFPMSQRS  
 FPASFWNSAYQAPVPAPLGSPLAAAHSELPPFATDPYSPATLHGHLHQGAADWHHAHPHHAHPHPYALGG  
 ALGAQASAYPRPAVHEVYAPHFDPRYGPLLLMPAATGRPGRLAPASAPAPGSPPCELAAKGEPAGSAWAAP  
 GGPFVSPDGDVAQSLGLSVDSGKRRRRECSLPSAPPALYPTLG

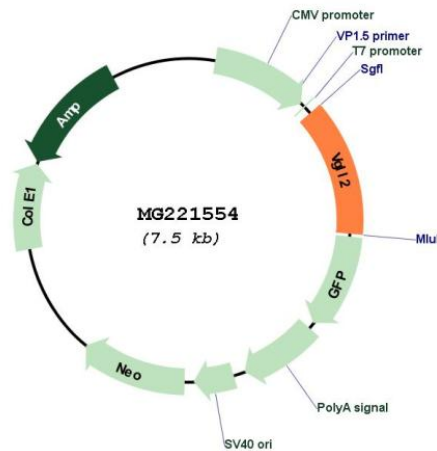
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_153786

ORF Size: 966 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_153786.2](#)

**RefSeq Size:** 1483 bp

**RefSeq ORF:** 969 bp

**Locus ID:** 215031

**UniProt ID:** [Q8BGW8](#)

**Cytogenetics:** 10 B3

**Gene Summary:** This gene is a member of the Vestigial-like (Vgl) gene family and is upregulated during muscle differentiation. The product of this gene interacts with and modifies the DNA-binding properties of the transcription factor, TEF-1, and is important for muscle tissue development. Reduced expression of this gene leads to a reduction in the terminal differentiation of muscle cells. Alternate splicing results in multiple protein isoforms. [provided by RefSeq, Jul 2014]