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# Product datasheet for MC227022

## Vgll2 (NM_001300957) Mouse Untagged Clone

### Product data:

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| **Product Type:** | Expression Plasmids |
| **Product Name:** | Vgll2 (NM_001300957) Mouse Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | Vgll2 |
| **Synonyms:** | C130057C21Rik; Vgl; vgl-2; Vi; VIT; VITO-1; Vito1 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |
| **Fully Sequenced ORF:** | >MC227022 representing NM_001300957<br>Red=Cloning site Blue=ORF Orange=Stop codon<br><br>TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC<br>GCCGCGATCGCC<br><br>ATGAGCTGTCTGGATGTTATGTACCAGGTCTACGGTCCCCCGCAGCCTTATTTCGCAGCCGCCTACACTC<br>CCTACCACCAGAAACTAGCCTACTACTCAAAAATGCAGGAAGCTCAAGAGTGCGCCAGCCCTGGCAGCAG<br>TGCCAGCGGGAGCTCCTCATTTTCCAACCCAACCCCAGCCAGTGTCAAGGAAGAGGAGGGCAGCCCAGAG<br>AAAGAGCGCCCGCCCGAAGCTGAGTACATCAACTCCAGATGTGTCCTCTTCACCTACTTCCAGGGGGACA<br>TCAGCTCTGTGGTGGACGAACATTTCAGTAGGGCCCTTAGCCACCCAAGCAGCTACACCCCAAGCTGTAC<br>CAGCAGCAAAGCACACAGAAGCTCTGGACCCTGGAGAGAAGGCACCTTCCCGATGAGCCAGCGCAGCTTC<br>CCCGCCTCCTTCTGGAACAGCGCGTACCAGGCGCCTGTGCCCGCGCCACTAGGCAGTCCTCTGGCCGCCG<br>CACACTCGGAGCTGCCCTTTGCCACCGACCCCTACTCTCCCGCCACTCTGCACGGCCACCTGCACCAGGG<br>CGCGGCCGACTGGCACCACGCGCACCCGCACCACGCGCACCCGCACCATCCCTATGCGCTGGGCGGCGCC<br>CTGGGAGCACAAGCCTCTGCCTACCCGCGGCCAGCAGTGCACGAGGTCTACGCGCCCCACTTCGACCCGC<br>GCTATGGGCCGCTGCTCATGCCCGCGGCCACTGGCCGCCCCGGCCGCCTGGCCCCTGCCTCGGCGCCGGC<br>TCCCGGCAGCCCTCCCTGCGAGCTTGCGGCCAAGGGCGAGCCGGCGGGCAGCGCATGGGCTGCGCCCGGG<br>GGACCCTTCGTGAGCCCCACGGGGGATGTGGCCCAGAGCCTGGGTCTCAGCGTGGACTCAGGTAAGCGGA<br>GGAGGGAATGCAGTCTCCCCTCTGCCCCTCCGGCACTGTACCCGACTCTGGGCTAA<br><br>ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT<br>ACAAGGATGACGACGATAAGGTTTAA |
| **Restriction Sites:** | SgfI-MluI |
| **ACCN:** | NM_001300957 |

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|---|---|
| **Insert Size:** | 966 bp |
| **OTI Disclaimer:** | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| **OTI Annotation:** | Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag. |
| **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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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. |
| **Note:** | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required. |
| **RefSeq:** | NM_001300957.1, NP_001287886.1 |
| **RefSeq Size:** | 1664 bp |
| **RefSeq ORF:** | 966 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] Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments. |