

## Product datasheet for **MG218814**

### Gpd1l (NM\_175380) Mouse Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Gpd1l (NM_175380) Mouse Tagged ORF Clone                                    |
| Tag:                      | TurboGFP  |
| Symbol:                   | Gpd1l   |
| Synonyms:                 | 2210409H23Rik; D9Ertd660e   |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)   |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| ORF Nucleotide Sequence:  | >MG218814 representing NM_175380<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGCGCGCCTCTGAAAGTGTGCATCGTGGGCTCGGGAACTGGGGATCAGCTGTTGCAAAAATCA  
TCGGCAGCAACGTGAAGACCCTGCAGAAATTCCTCCACCGTCAAGATGTGGGTCTTTGAGGAGACCGT  
GAACGGGAGGAAGCTGACAGACATAATCAACAATGACCACGAAAACGTGAAATATCTCCAGGACACAAG  
CTGCCAGAGAATGTGGTCGCTGTCCAAACCTCAGCGAAGCCGTGCAGGACGCGGACCTGCTGGTGTTCG  
TCATCCCTCACCAGTTCATCCACAAGATCTGCGATGAGATCACGGCAGGGTGCCGAGAAGGCCCTGGG  
GATCACCCCTCATCAAGGGCATAGATGAGGGCCCCGACGGGCTGAAGCTAATCTCCGACATCATCCGAGAG  
AAGATGGGGATCGACATCAGTGTCTGATGGGGGCAACATCGCCAGTGAGGTGCGTGCAGAGAAGTTCT  
GCGAGACCACCATTTGGCAGCAAAGTGATGCAGAACGGCCTTCTCTTCAAAGAGCTGCTGCAGACGCCAA  
CTTCAGAACTACTGTGGTAGACGATGCAGACACCGTGGAGCTTTGCGGTGCTCTTAAGAATTGTTGCT  
GTGGGAGCTGGCTTCTGCGACGGCCTCCGCTGTGGGGACAACACCAAGGGCGCGGTGCATACGCTGGGCC  
TCATGAAATGATCGCTTTCGCCAAGATCTTCTGTAAGGGCCAGGTGTCCACGGCCACCTTCTTGGAGAG  
CTGCGGGGTGGCTGACCTCATCACACCTGCTACGGAGGGCGGAACCGCAGGGTGGCAGAGGCCTTCGCC  
AGGACTGGGAAGACCATCGAAGAGCTGGAGAAGGAGCTGCTGAACGGGCAGAAGTCAGGGACCTCAGA  
CCTCTGCGGAGGTGTACGCATCTCAGGCAGAAGGGGCTGCTGGACAAGTTCCCTCTTCACTGCAAT  
GTATCAGATCTGCTATGAAGGCAGGCCTGTACGCAGATGCTGTCTGCCTGCAGAGCCACCCAGAGCAC  
ATC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG218814 representing NM\_175380  
 Red=Cloning site Green=Tags(s)

MAAAPLKVCIVGSGNWGSAVAKIIGSNVKTQKFSSTVKMWVFEETVNGRKLTDIINNDHENVKYLPGHK  
 LPENVVAVPNLSEAVQDADLLVFVIPHQFIHKICDEITGRVPEKALGITLIKIDEGPDGLKLISDIIRE  
 KMGIDISVLMGANIASEVAAEKFCETTIGSKVMQNGLLFKELLQTPNFRI TVVDDADTVELCGALKNIVA  
 VGAGFCDGLRCGDNTKAAVIRLGLMEMIAFAKIFCKGQVSTATFLESCGVADLITTCYGGRRNRVAEFA  
 RTGKTIIEELEKELLNGQKLQGPQTSAEVYRILRQKGLLDKFLFTAVYQICYEGRPVTVQMLSCLQSHPEH  
 I

TRTRPLE - GFP Tag - V

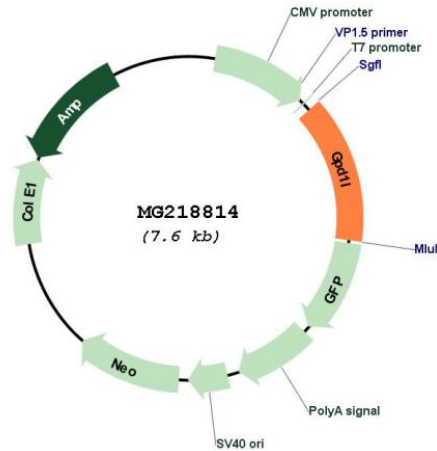
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_175380

|                               |   |
|-------------------------------|---|
| <b>ORF Size:</b>              | 1053 bp   |
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>  |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <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_175380.5</a> , <a href="#">NP_780589.3</a>   |
| <b>RefSeq Size:</b>           | 4393 bp   |
| <b>RefSeq ORF:</b>            | 1056 bp   |
| <b>Locus ID:</b>              | 333433  |
| <b>UniProt ID:</b>            | <a href="#">Q3ULJ0</a>  |
| <b>Cytogenetics:</b>          | 9 65.47 cM  |
| <b>Gene Summary:</b>          | Plays a role in regulating cardiac sodium current; decreased enzymatic activity with resulting increased levels of glycerol 3-phosphate activating the DPD1L-dependent SCN5A phosphorylation pathway, may ultimately lead to decreased sodium current; cardiac sodium current may also be reduced due to alterations of NAD(H) balance induced by DPD1L. [UniProtKB/Swiss-Prot Function]  |