

Product datasheet for **MR218814**

Gpd1l (NM_175380) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpd1l (NM_175380) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gpd1l
Synonyms:	2210409H23Rik; D9Ertd660e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR218814 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGCAGCGCGCCTCTGAAAGTGTGCATCGTGGGCTCGGGAACTGGGGATCAGCTGTTGCAAAAATCA
TCGGCAGCAACGTGAAGACCTGCAGAAATTCCTCCACCGTCAAGATGTGGTCTTTGAGGAGACCGT
GAACGGGAGGAAGCTGACAGACATAATCAACAATGACCACGAAAACGTGAAATATCTCCAGGACACAAG
CTGCCAGAGAATGTGGTCGCTGTCCAAACCTCAGCGAAGCCGTGCAGGACGCGGACCTGCTGGTGTTCG
TCATCCCTCACCAGTTCATCCACAAGATCTGCGATGAGATCACGGCAGGGTGCCGAGAAGGCCCTGGG
GATCACCCATCAAGGGCATAGATGAGGGCCCCGACGGGCTGAAGCTAATCTCCGACATCATCCGAGAG
AAGATGGGGATCGACATCAGTGTCTGATGGGGCCAACATCGCCAGTGAGGTGCGTGCAGAGAAGTTCT
GCGAGACCACCATGGCAGCAAAGTGTGCAGAACGGCCTTCTCTTCAAAGAGCTGCTGCAGACGCCAA
CTTCAGAACTACTGTGGTAGACGATGCAGACACCGTGGAGCTTTGCGGTGCTCTTAAGAATTGTTGCT
GTGGGAGCTGGCTTCTGCGACGGCCTCCGCTGTGGGACAACACCAAGGGCGCGTACATCGCCTGGGCC
TCATGAAATGATCGCTTTCGCAAGATCTTCTGTAAGGGCCAGGTGTCCACGGCACCTTCTTGGAGAG
CTGCGGGGTGGCTGACCTCATCACCTGCTACGGAGGGCGAACCGCAGGGTGGCAGAGGCCTTCGCC
AGGACTGGGAAGACCATCGAAGAGCTGGAGAAGGAGCTGCTGAACGGGCAGAAGCTCAGAGGACCTCAGA
CCTCTGCGGAGGTGTACCGCATCTCAGGCAGAAGGGGCTGCTGGACAAGTTCCCTCTTCACTGCAAT
GTATCAGATCTGCTATGAAGGCAGGCCTGTACGCAGATGCTGTCTGCCTGCAGAGCCACCCAGAGCAC
ATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR218814 protein sequence
Red=Cloning site Green=Tags(s)

MAAAPLKVCIVGSGNWGSAVAKIIGSNVKTQKFSSTVKMWVFEETVNGRKLTDIINNHNHENVKYLPGHK
 LPENVVAVPNLSEAVQDADLLVFVIPHQFIHKICDEITGRVPEKALGITLIKIDEGPDGLKLISDIIRE
 KMGIDISVLMGANIASEVAAEKFCETTIGSKVMQNGLLFKELLQTPNFRIITVDDADTVELCGALKNIVA
 VGAGFCDGLRCGDNTKAAVIRLGLMEMIAFAKIFCKGQVSTATFLESCGVADLITTCYGGRRNRVAEFA
 RTGKTIIELEKELLNGQKLQGPQTSAEVYRILRQKGLLDKFLFTAVYQICYEGRPVTQMLSCLQSHPEH
 I

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_175380

ORF Size: 1056 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_175380.5](#), [NP_780589.3](#)

RefSeq Size: 4393 bp

RefSeq ORF: 1056 bp

Locus ID: 333433

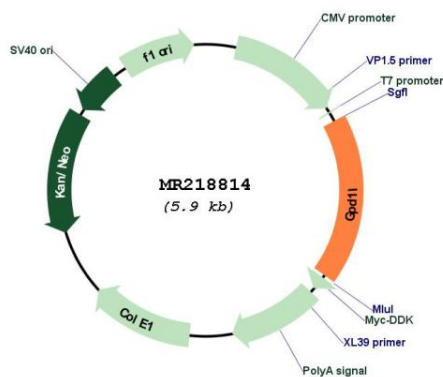
UniProt ID: [Q3ULJ0](#)

Cytogenetics: 9 65.47 cM

MW: 38.2 kDa

Gene Summary: 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]

Product images:



Circular map for MR218814