

Product datasheet for MC214621

Gpd1l (NM_175380) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gpd1l (NM_175380) Mouse Untagged Clone
Tag: Tag Free
Symbol: Gpd1l
Synonyms: 2210409H23Rik; D9Ertd660e
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC214621 representing NM_175380
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCAGCGGCGCCTCTGAAAGTGTGCATCGTGGGCTCGGGAACTGGGGATCAGCTGTTGCAAAAATCA
 TCGGCAGCAACGTGAAGACCCTGCAGAAATTCCTCCACCGTCAAGATGTGGGTCTTTGAGGAGACCGT
 GAACGGGAGGAAGCTGACAGACATAATCAACAATGACCAGAAAACGTGAAATATCTCCAGGACACAAG
 CTGCCAGAGAATGTGGTCTGTCCAAACCTCAGCGAAGCCGTGACAGGACGCGGACCTGCTGGTGTTCG
 TCATCCCTCACCAGTTTATCCACAAGATCTGCGATGAGATCACGGGCAGGGTGCCCGAGAAGGCCCTGGG
 GATCACCCCTCATCAAGGGCATAGATGAGGGCCCGACGGGCTGAAGCTAATCTCCGACATCATCCGAGAG
 AAGATGGGGATCGACATCAGTGTGCTGATGGGGCCCAACATCGCCAGTGAGGTGCTGCGGAGAAGTTCT
 GCGAGACCACCATGGCAGCAAAGTGTGCAGAACGGCCTTCTTTCAAAGAGCTGCTGCAGACGCCCAA
 CTTCAGAATCACTGTGGTAGACGATGCAGACACCGTGGAGCTTTGCGGTGCTCTTAAGAATTGTTGCT
 GTGGGAGCTGGCTTCTGCGACGGCCTCCGCTGTGGGACAACACCAAGGGCGCCGTACACGCTGGGCC
 TCATGAAATGATCGCTTTCGCAAGATCTTCTGTAAGGGCCAGGTGTCCACGGCCACCTTCTTGGAGAG
 CTGCGGGGTGGCTGACCTCATCACCTGCTACGGAGGGCGGAACCGCAGGGTGGCAGAGGCCTTCGCC
 AGGACTGGGAAGACCATCGAAGAGCTGGAGAAGGAGCTGCTGAACGGGCAGAAGCTGCAGGGACCTCAGA
 CCTCTGCGGAGGTGTACCGCATCCTCAGGCAGAAGGGGCTGCTGGACAAGTTCCCTCTTCACTGCAGT
 GTATCAGATCTGCTATGAAGGCAGGCCTGTACGCAGATGCTGTCTGCTGCAGAGCCACCCAGAGCAC
 ATCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_175380



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Insert Size:	1056 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).
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:	<ol style="list-style-type: none">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:	<u>NM_175380.5</u> , <u>NP_780589.3</u>
RefSeq Size:	4393 bp
RefSeq ORF:	1056 bp
Locus ID:	333433
UniProt ID:	<u>Q3ULJ0</u>
Cytogenetics:	9 65.47 cM
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]