

Product datasheet for **RG206131**

GPD1L (NM_015141) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPD1L (NM_015141) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPD1L
Synonyms:	GPD1-L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206131 representing NM_015141 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGCAGCGCGCCCTGAAAGTGTGCATCGTGGGCTCGGGAACTGGGGTTCAGCTGTTGCAAAAATAA
TTGGTAATAATGTCAAGAACTCAGAAATTTGCCTCCACAGTCAAGATGTGGGTCTTTGAAGAAACAGT
GAATGGCAGAAAACGACAGACATCATAAATAATGACCATGAAAATGTAATAATCTTCTGGACACAAG
CTGCCAGAAAATGTGGTTGCCATGTCAAATCTTAGCGAGGCTGTGCAGGATGCAGACCTGCTGGTGTTC
TCATCCCCACCAGTTCATTCACAGAATCTGTGATGAGATCACTGGGAGAGTGCCCAAGAAAGCGCTGGG
AATCACCCCTCATCAAGGGCATAGACGAGGGCCCCGAGGGGCTGAAGCTCATTTCTGACATCATCCGTGAG
AAGATGGGTATTGACATCAGTGTCTGATGGGAGCCAACATTGCCAATGAGGTGGCTGCAGAGAAGTTCT
GTGAGACCACCATCGGCAGCAAAGTAATGGAGAACGGCCTTCTCTCAAAGAACTTCTGCAGACTCCAAA
TTTTCGAATTACCGTGGTTGATGATGCAGACACTGTTGAACTATGTGGTGCCTTAAGAACATCGTAGCT
GTGGGAGCTGGTCTGCGACGGCCTCCGCTGTGGAGACAACACCAAAGCGGCCGTATCCGCTGGGAC
TCATGGAATGATTGCTTTTGCCAGGATCTTCTGCAAAGGCCAAGTGTCTACAGCCACCTCCTAGAGAG
CTGCGGGGTGGCCGACCTGATCACCACTGTTACGGAGGGCGGAACCGCAGGGTGGCCGAGGCCTTCGCC
AGAAGTGGGAAGACCATTGAAGAGTTGGAGAAGGAGATGCTGAATGGGCAAAAGTCCAAGGACCGCAGA
CTTCTGCTGAAGTGTACCGCATCTCAAACAGAAGGGACTACTGGACAAGTTTCCATTGTTTACTGCAGT
GTATCAGATCTGCTACGAAAGCAGACCAGTTCAAGAGATGTTGTCTTGTCTTTCAGAGCCATCCAGAGCAT
ACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206131 representing NM_015141
Red=Cloning site Green=Tags(s)

MAAAPLKVCIVGSGNWGS AVAKIIGNNVKKLQKFASTVKMWVFEETVNGRKLTDIINNDHENVKYLPGHK
 LPENNVAMSNLSEAVQDADLLVFVIPHQFIHRICDEITGRVPPKALGITLIKIDEGPEGLKLISDIIRE
 KMGIDISVLMGANIANEVAAEKFCETTIGSKVMENGLLFKELLQTPNFRI TVVDDADTVELCGALKNIVA
 VGAGFCDLRCGDNTKAAVIRLGLMEMIAFARIFCKGQVSTATFLESCGVADLITTCYGGRRNRVAEFA
 RTGKTIEELEKEMLNGQKLQGPQTS AEVYRILKQKGLLDKFP LFTAVYQICYESRPVQEMLSCLQSHPEH
 T

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015141

ORF Size: 1053 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_015141.2](#), [NP_055956.1](#)

RefSeq Size: 3954 bp

RefSeq ORF: 1056 bp

Locus ID: 23171

UniProt ID: [Q8N335](#)

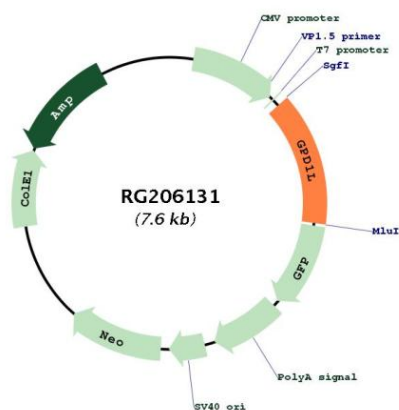
Cytogenetics: 3p22.3

Domains: NAD_Gly3P_dh

Protein Pathways: Glycerophospholipid metabolism

Gene Summary: The protein encoded by this gene catalyzes the conversion of sn-glycerol 3-phosphate to glycerone phosphate. The encoded protein is found in the cytoplasm, associated with the plasma membrane, where it binds the sodium channel, voltage-gated, type V, alpha subunit (SCN5A). Defects in this gene are a cause of Brugada syndrome type 2 (BRS2) as well as sudden infant death syndrome (SIDS). [provided by RefSeq, Jul 2010]

Product images:



Circular map for RG206131