

Product datasheet for **MG205280**

Gpd1 (NM_010271) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpd1 (NM_010271) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gpd1
Synonyms:	A1747587; Gdc-1; Gdc1; mKIAA4010
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205280 representing NM_010271 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGGCAAGAAAGTCTGCATTGTGGCTCTGGCAACTGGGGCTCAGCCATTGCCAAGATCGTGGGTA
GCAATGCAGGCCGGCTGGCACACTTTGACCCACGGGTGACCATGTGGGTGTTTGAGGAAGACATCGGGG
CAGAAAGCTAACTGAGATCATCAACTCAGCACGAGAATGTTAAATACCTGCCAGGGCACAAGCTGCC
CCCAATGTGGTGGCCATCCAGACGTGGTCCAGGCTGCAACAGGCGCTGACATCCTGTTTTGTGGTAC
CCCATCAGTTCATTGGCAAGATCTGTGACCAGCTCAAGGGCCACTGAAGGCAATACTATTGGCATATC
TCTTATTAAGGGGTAGACGAGGGCCCCAACGGCTGAAGCTCATTTCTGAAGTGATTGGGAGCGCCTT
GGCATTCCCATGAGCGTCTGATGGGGCCAACATTGCCAGCGAGGTGGCTGAGGAGAAGTTCTGTGAGA
CGACCATCGGCTGCAAGGACCCGGCCAGGGACAGCTCCTGAAGGACCTGATGCAGACACCAACTTTTCG
CATCACTGTGGTACAAGAGGTGGACACAGTGGAGATCTGTGGGCCTTGAAGAATATAGTGGCCGTTGGG
GCTGGCTTCTGTGATGGGCTTGGCTTCGGTGACAACACCAAGGCGGCGGTGATCCGGTGGGGCTCATGG
AGATGATCGCCTTCGCCAAGCTCTTCTGCAGTGGCACTGTGTCTCGCCACCTTCTGGAGAGCTGCGG
GGTTCGACAGCTCATCACGACCTGCTATGGGGGCGGAACCGCAAGGTGGCAGAGGCCTTGTCTCGAAT
GGAAAGTCCATTGAGCAGCTGGAGAAGGAGATGCTAAATGGGCAGAAGCTACAGGGGCCACAGACGCC
GGGAGCTGCACAGCATTCTCCAACACAAGGGCCTTGTGGACAAGTTCCCTTGTTCACCTGCGGTGTACAA
AGTGTGCTATGAGGGCCAGCCAGTGGGCAATTCATCCGCTGTCTGCAGAACCCCGGAACACATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205280 representing NM_010271
 Red=Cloning site Green=Tags(s)

MAGKKVCIVGSGNWGSAIAKIVGSNAGRLAHFDPVRTMWWFEEDIGGRKLTEIINTQHENVKYLPGHKLP
 PNVVAIPDVVQAATGADILVFVPHQFIGKICDQLKGLKANTIGISLIKGVDEGPNGLKLISEVIGERL
 GIPMSVLMGANIASEVAEEKFCETTIGCKDPAQGQLKDLMTNPNFRITVVQEVDTVEICGALKNIVAVG
 AGFCDGLGFGDNTKAAVIRLGLMEMIAFAKLFCSGTVSSATFLESCGVADLITTCYGGRNRKVAEAFART
 GKSIIEQLEKEMLNQKLQGPQTARELHSILQHKGLVDKFPLFTAVYKVCYEGQPVGEFIRCLQNHPEHM

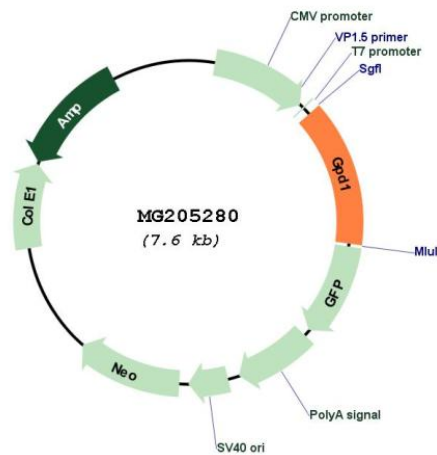
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_010271

ORF Size: 1047 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:	<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:	NM_010271.3
RefSeq Size:	2809 bp
RefSeq ORF:	1050 bp
Locus ID:	14555
UniProt ID:	P13707
Cytogenetics:	15 56.13 cM
Gene Summary:	Has glycerol-3-phosphate dehydrogenase activity.[UniProtKB/Swiss-Prot Function]