

## Product datasheet for **MG221144**

### Gpcpd1 (NM\_001042672) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gpcpd1 (NM_001042672) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gpcpd1
Synonyms:	2310004G06Rik; 2310032D16Rik; AU015213; Gde5; mKIAA1434; Prei4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG221144 representing NM\_001042672  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGACACCTTCTCAGGTCACCTTTTGAATAAGAGGAACTCTTTACCAGGAGAGGCTTTTGCATATGTG  
 GAAGCTGTGATGCCCTGGGAACTGGAATCCTCAAATGCTGTGGCTCTTATTAATGAAAACGAGACAGG  
 AGACAGTGTGTTGTGAAAGCAGTGATTGCTCTCAATAGAGGAGTGTGAGTGAAGTACCGTACTTCAGA  
 GGCTGCTTTTGAACCAAAGACTATCGGTGGTCCATGTCAAGTCATAGTTCACAAGTGGGAGACTCATC  
 TACAACCACGATCAATAACCCCTTTAGAAAGTGAATCATTATTGACGATGGACAGTTTGGCATCCACAA  
 TGGTGTGAAACACTGGATTCTGGATGGCTTACATGTCAGACTGAAATAAGATTGCGTCTGCATTTTTCT  
 GAGAAACCTCCTGTTCAATTAGCAAGAAAAAGTTCAAAAAATCGAGATTTAGGGTAAAGCTCACACTCG  
 AGGGTCTGGAGGAAGATGAAGATGATGACGATAAGGTCTCTCCACTGTTCTTCAAAAATGTCCAA  
 CAGCCTGGAGATATCCTTAATAAGTGACAATGAGTTCAAGTGCAGGCACTCACAGCCAGAATGTGGGTAT  
 GGCTTACAGCCCGATCGTTGGACAGAGTACAGCATACAGACAATGGAACCCAGATAATCTGGAGCTCATCT  
 TTGACTTTTTTGGGAAGATCTCAGTGAGCATGTAGTTCAGGGTGTGTTCTTCTCGACACGTGGGCAC  
 AGCATGCCTCCTGCTTCTACCATTGCTGAGAGTGAAGAAGCGCTGGAATCCTTACTCTTCCCATCATG  
 AGCAGAAATCCAGAAAACTATAGGCAAAGTCAGAGTTGATTTTATCATCATCAAGCCATTACCTGGAT  
 ATAGTTGTTCTATGCAGTCTTCATTTTCCAAGTATTGGAAACCAAGAATACCATTGGACGTTGGACATCG  
 TGGTGCAGGAACTCAACAACGACTGCCAAGCTAGCTAAAGTACAGGAAAATACTATCGCTTCTTTAAGA  
 AATGCTGCCAGTATGGCGCAGCATTGTAGAATTTGATGTCCACCTTTCAAAGGACTTTGTGCCCGTGG  
 TGTATCATGACCTCACCTGCTGTCTGACCATGAAGAGGAAATGAAGCTGATCCAGTTGAATTTTGA  
 AATCCCGTAAAAGAATTAACATTTGACCAACTCCAGTTATTGAAGCTTTCTCATGTGACTGCATTAATA  
 ACCAAAGACCGGAAACAATCTTTGTATGAGGAGGAAAATTTCTTTTCTGAAAATCAGCCATTTCTTCTC  
 TTAAGATGGTTTTAGAATCATTGCCAGAAAATGTAGGATTTAATATAGAAATAAAATGGATTTGCCAAC  
 CAGGGATGGAGTATGGGATGGCAACTTATCAACATATTTTGTATGAATGTGTTTTGGATATAATTTTA  
 AAACTGTTTTAGAAAATCTGGGAAGAGGAGAATAGTGTCTTCTTTTGTGACGATATTTGTACAA  
 TGGTTCGGCAGAAGCAGAACAAATATCCATATTTATTTTGAACCAAGGAAAGTCTGATATTTACCCGA  
 ACTCATGGACCTCAGATCTCGACAACACCCATTGCAATGAGTTTGCACAGTTTAAAAATTTTGGGG  
 ATAAATGCCCATACTGAAGACCTCCTTAGAAACCCATCCTATGTCCAAGGGCAAAGCTAAGGGATTGG  
 TCATATCTGCTGGGGTATGATACCAACGATCCTGAAAACAGAAGGAAACTGAAGGAATTTGGAGTAAA  
 TGGTCTAATATATGATAGGTATTTGTTTTTCATAAAAAATTTCCATGGAATTTTTCAAAAAGTA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG221144 representing NM\_001042672  
 Red=Cloning site Green=Tags(s)

MTPSQVTFEIRGTLTPGEVFAICGSCDALGNWNPQNAVALINENETGDSVLWKAVIALNRGVSVKYRYFR  
 GCFLEPKTIGGPCQVIVHKWETHLQPRISITPLESEIIIDDGQFGIHNGVETLDSGWLTCQTEIRLRLHFS  
 EKPPVVISKFKKSRFRVKL TLEGLEEDEDDEDDKVSPTVLHKMNSLEISLISDNEFKCRHSQPEGY  
 GLQPDRTWEYSIQTMEDNLELIFDFEEDLSEHVQGDVLPGHVGTACLLSSTIAESGRSAGILTLPIM  
 SRNSRKTIGKVRVDFIIKPLPGYSCMSQSSF SKYWKPRIPLDVGHRGAGNSTTTAKLAKVQENTIASLR  
 NAASHGAAFVEFDVHLSKDFVPVYVYHDLTCCLTMKRKYEADPVELFEIPVKELTFDQLQLLKL SHVTALK  
 TKDRKQSLYEEENFFSENQPFPSLKMVLESLEPENVGFNIEIKWICQHRDGVWDGNLSTYFDMNVFLDIIL  
 KTVLENSGKRRIVFSSFDADICTMVRQKQNKYPILFLTQGKSDIYPELMDLRSRTTPIAMSFQFENILG  
 INAHTEDLLRNPSYVQEAkakGLVIFCWGDDTNDPENRRKLKEFGVNGLIYDRYLFFIKNFHGIFQKV

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**ACCN:** NM\_001042672

**ORF Size:** 1884 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\\_001042672.1](#), [NP\\_001036137.1](#)

**RefSeq Size:** 3392 bp

**RefSeq ORF:** 1887 bp

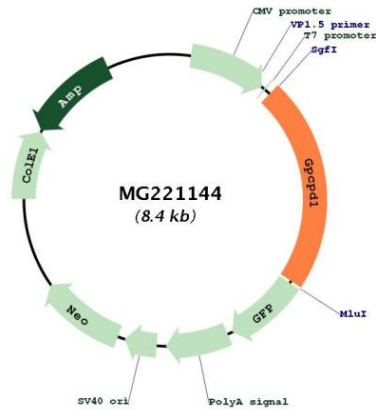
**Locus ID:** 74182

**Cytogenetics:** 2

**Gene Summary:**

May be involved in the negative regulation of skeletal muscle differentiation, independently of its glycerophosphocholine phosphodiesterase activity.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG221144