

## Product datasheet for **MR221143**

### **Gpcpd1 (NM\_001042671) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gpcpd1 (NM_001042671) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gpcpd1
Synonyms:	2310004G06Rik; 2310032D16Rik; AU015213; Gde5; mKIAA1434; Prei4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR221143 representing NM\_001042671  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGACACCTTCTCAGGTCACCTTTTGAATAAGAGGAACTCTTTTACCAGGAGAGGCTTTTGCATATGTG  
 GAAGCTGTGATGCCCTGGGAAACTGGAATCCTCAAATGCTGTGGCTCTTATTAATGAAAACGAGACAGG  
 AGACAGTGTGTTGTGAAAGCAGTGATTGCTCTCAATAGAGGAGTGTGAGTGAAGTACCGTACTTCAGA  
 GGCTGCTTTTGAACCAAAGACTATCGGTGGTCCATGTCAAGTCATAGTTCACAAGTGGGAGACTCATC  
 TACAACCACGATCAATAACCCCTTTAGAAAGTGAATCATTATTGACGATGGACAGTTTGGCATCCACAA  
 TGGTGTGAAACACTGGATTCTGGATGGCTTACATGTCAGACTGAAATAAGATTGCGTCTGCATTTTTCT  
 GAGAAACCTCCTGTTCAATTAGCAAGAAAAAGTTCAAAAATCGAGATTTAGGGTAAAGCTCACACTCG  
 AGGGTCTGGAGGAAGATGAAGATGATGACGATAAGGTCTCTCCACTGTTCTTCACAAAATGTCCAA  
 CAGCCTGGAGATATCCTTAATAAGTGACAATGAGTTCAAGTGCAGGCACTCACAGCCAGAATGTGGGTAT  
 GGCTTACAGCCCGATCGTTGGACAGAGTACAGCATACAGACAATGGAACCCAGATAATCTGGAGCTCATCT  
 TTGACTTTTTTGGGAAGATCTCAGTGAGCATGTAGTTCAGGGTGTGTTCTTCTCGACACGTGGGCAC  
 AGCATGCCTCCTGCTTCTACCATTGCTGAGAGTGAAGAAGCGCTGGAATCCTTACTCTTCCCATCATG  
 AGCAGAAATCCAGAAAACTATAGGCAAAGTCAGAGTTGATTTTATCATCATCAAGCCATTACCTGGAT  
 ATAGTTGTTCTATGCAGTCTTCATTTTCCAAGTATTGGAAACCAAGAATACCATTGGACGTTGGACATCG  
 TGGTGCAGGAACTCAACAACGACTGCCAAGCTAGCTAAAGTACAGGAAAATACTATCGCTTCTTTAAGA  
 AATGCTGCCAGTCATGGCGCAGCATTGTAGAATTTGATGTCCACCTTTCAAAGGACTTTGTGCCCGTGG  
 TGTATCATGACCTCACCTGCTGTCTGACCATGAAGAGGAAATATGAAGCTGATCCAGTTGAATTGTTTGA  
 AATCCCAGTAAAAGAATTAACATTTGACCAACTCCAGTTATTGAAGCTTTCTCATGTGACTGCATTA  
 ACCAAAGACCGGAAACAATCTTTGTATGAGGAGGAAAATTTCTTTTCTGAAAATCAGCCATTTCTTCTC  
 TTAAGATGGTTTTAGAATCATTGCCAGAAAATGTAGGATTTAATATAGAAATAAAATGGATTTGCCAACA  
 CAGGGATGGAGTATGGGATGGCAACTTATCAACATATTTTGTATGAATGTGTTTTGGATATAATTTTA  
 AAAACTGTTTTAGAAAATCTGGGAAGAGGAGAATAGTGTCTTCTTTTGTGATGCAGATATTTGTACAA  
 TGGTTCGGCAGAAGCAGAACAAATATCCCATATTTTGTGACCAAGGAAAGTCTGATATTTACCCCGA  
 ACTCATGGACCTCAGATCTCGGACAACACCCATTGCAATGAGTTTGCACAGTTTAAAAATTTTGGGG  
 ATAAATGCCCATACTGAAGACCTCCTTAGAAACCCATCCTATGTCCAAGAGGCAAAGCTAAGGGATTGG  
 TCATATTTCTGCTGGGGTGTGATACCAACGATCCTGAAAACAGAAGGAAACTGAAGGAATTTGGAGTAA  
 TGGTCTAATATATGATAGGATATATGATTGGATGCCTGAACAGCCAAATATATTCCAAGTGGAGCAGTTG  
 GAGCGCTGAAGCAAGAATTGCCAGAGCTTAAGAACTGTTTGTGTCCACTGTTAGCCACTTCATCCCTT  
 CTCTTTCTGTGTGGAGCCTGATATCCACGTGGATGCCAACGGCATTGATAGTGTGGAGAACGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR221143 representing NM\_001042671  
Red=Cloning site Green=Tags(s)

MTPSQVTFEIRGTLTPGEVFAICGSCDALGNWNPQNAVALINENETGDSVLWKAVIALNRGVSVKYRYFR  
 GCFLPKTIGGPCQVIVHKWETHLQPRISITPLESEIIIDDGQFGIHNGVETLDSGWLTCQTEIRLRHLHFS  
 EKPPVSIKSKKFKKSRFRVKLTLEGLEEDEDDEDDDKVSPVTLHKMSNSLEISLISDNEFKCRHSQPECGY  
 GLQPDRTWEYSIQTMEDNLELIFDFFEEDLSEHVVGQDVLPGHVGTAALLSSTIAESGRSAGILTLPI  
 SRNSRKTIGKVRVDFIIKPLPGYSCSMQSSFSKYWKPRIPLDVGHARGAGNSTTTAKLAKVQENTIASLR  
 NAASHGAAVFEVDVHLSKDFVPVYHDLTCCLTMKRKYEADPVELFEIPVKELTFDQLQLLKLSHVTALK  
 TKDRKQSLYEEENFFSENQFPFSLKMLESLPENVGFNIEIKWICQHRDGVWDGNLSTYFDMNVFLDIIL  
 KTVLENSGKRRIVSSFDADICTMVRQKQNKYPILFLTQGKSDIYPELMDLRSRRTPIAMSAQFENILG  
 INAHTEDLLRNPSYVQEAkakGLVIFCWGDDTNDPENRRKLKEFGVNGLIYDRIYDWMPEQPNIFQVEQL  
 ERLKQELPELKNCLCPTVSHFIPSSFVCEPDIHVDANGIDSVENA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**ACCN:** NM\_001042671

**ORF Size:** 2025 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\\_001042671.1](#), [NP\\_001036136.1](#)

**RefSeq Size:** 3703 bp

**RefSeq ORF:** 2028 bp

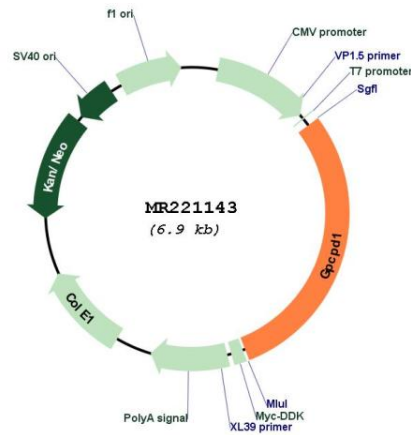
**Locus ID:** 74182

**Cytogenetics:** 2

**MW:** 76.6 kDa

**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 MR221143