

Product datasheet for **MG221143**

Gpcpd1 (NM_001042671) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpcpd1 (NM_001042671) 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)



[View online »](#)

ORF Nucleotide Sequence:

>MG221143 representing NM_001042671
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACACCTTCTCAGGTCACCTTTTGAATAAGAGGAACTCTTTTACCAGGAGAGGCTTTTGCATATGTG
 GAAGCTGTGATGCCCTGGGAACTGGAATCCTCAAATGCTGTGGCTCTTATTAATGAAAACGAGACAGG
 AGACAGTGTGTTGTGAAAGCAGTGATTGCTCTCAATAGAGGAGTGTGAGTGAAGTACCGTACTTCAGA
 GGCTGCTTTTGAACCAAAGACTATCGGTGGTCCATGTCAAGTCATAGTTCACAAGTGGGAGACTCATC
 TACAACCACGATCAATAACCCCTTTAGAAAGTGAATCATTATTGACGATGGACAGTTTGGCATCCACAA
 TGGTGTGAAACACTGGATTCTGGATGGCTTACATGTCAGACTGAAATAAGATTGCGTCTGCATTTTTCT
 GAGAAACCTCCTGTTCAATTAGCAAGAAAAAGTTCAAAAAATCGAGATTTAGGGTAAAGCTCACACTCG
 AGGGTCTGGAGGAAGATGAAGATGATGACGATAAGGTCTCTCCACTGTTCTTCACAAAATGTCCAA
 CAGCCTGGAGATATCCTTAATAAGTGACAATGAGTTCAAGTGCAGGCACTCACAGCCAGAATGTGGGTAT
 GGCTTACAGCCCGATCGTTGGACAGAGTACAGCATACAGACAATGGAACCCAGATAATCTGGAGCTCATCT
 TTGACTTTTTTGAGGAAGATCTCAGTGAGCATGTAGTTCAGGGTGTGTTCTTCTCGACACGTGGGCAC
 AGCATGCCTCCTGTCTTACCATTGCTGAGAGTGAAGAAGCGCTGGAATCCTTACTCTTCCCATCATG
 AGCAGAAATCCAGAAAACTATAGGCAAAGTCAGAGTTGATTTTATCATCATCAAGCCATTACCTGGAT
 ATAGTTGTTCTATGCAGTCTTCATTTTCCAAGTATTGGAAACCAAGAATACCATTGGACGTTGGACATCG
 TGGTGCAGGGAAGTCAACAACGACTGCCAAGCTAGCTAAAGTACAGGAAAATACTATCGCTTCTTTAAGA
 AATGCTGCCAGTCATGGCGCAGCATTGTAGAAATTTGATGTCCACCTTTCAAAGGACTTTGTGCCCGTGG
 TGTATCATGACCTCACCTGCTGTCTGACCATGAAGAGGAAATATGAAGCTGATCCAGTTGAATTGTTTGA
 AATCCCAGTAAAAGAATTAACATTTGACCAACTCCAGTTATTGAAGCTTTCTCATGTGACTGCATTA
 ACCAAAGACCGGAAACAATCTTTGTATGAGGAGGAAAATTTCTTTTCTGAAAATCAGCCATTTCTTCTC
 TTAAGATGGTTTTAGAATCATTGCCAGAAAATGTAGGATTTAATATAGAAATAAAATGGATTTGCCAACA
 CAGGGATGGAGTATGGGATGGCAACTTATCAACATATTTTGTATGAATGTGTTTTGGATATAATTTTA
 AAACTGTTTTAGAAAATCTGGGAAGAGGAGAATAGTGTCTTCTTTTGTGATGCAGATATTTGTACAA
 TGGTTCGGCAGAAGCAGAACAAATATCCCATATTTTGTGACCAAGGAAAGTCTGATATTTACCCCGA
 ACTCATGGACCTCAGATCTCGGACAACACCCATTGCAATGAGTTTGCACAGTTTAAAAATTTTGGGG
 ATAAATGCCCATACTGAAGACCTCCTTAGAAACCCATCCTATGTCCAAGAGGCAAAGCTAAGGGATTGG
 TCATATTTCTGCTGGGGTGTATGATACCAACGATCCTGAAAACAGAAGGAAACTGAAGGAATTTGGAGTAA
 TGGTCTAATATATGATAGGATATATGATTGGATGCCTGAACAGCCAAATATATTCCAAGTGGAGCAGTTG
 GAGCGCTGAAGCAAGAATTGCCAGAGCTTAAGAACTGTTTGTGTCCCCTGTTAGCCACTTCATCCCTT
 CTCTTTCTGTGTGGAGCCTGATATCCACGTGGATGCCAACGGCATTGATAGTGTGGAGAACGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG221143 representing NM_001042671
 Red=Cloning site Green=Tags(s)

MTPSQVTFEIRGTLTPGEVFAICGSCDALGNWNPQNAVALINENETGDSVLWKAVIALNRGVSVKYRYFR
 GCFLEPKTIGGPCQVIVHKWETHLQPRSITPLESEIIIDDGQFGIHNGVETLDSGWLTCQTEIRLRHLHFS
 EKPPVSIKFKKSRFRVKLTLEGLEEDEDDEDDDKVSPVTLHKMSNSLEISLISDNEFKCRHSQPECGY
 GLQPDRTWEYSIQTMEDPNLELIFDFFEEDLSEHVQGDVLPGHVGTACLLSSTIAESGRSAGILTLPIM
 SRNSRKTIGKVRVDFIIKPLPGYSCSMQSSFSKYWKPRIPLDVGHRGAGNSTTTAKLAKVQENTIASLR
 NAASHGAAVFEVDVHLSKDFVPVYVYHDLTCCLTMKRKYEADPVELFEIPVKELTFDQLQLLKLSHVTALK
 TKDRKQSLYEEENFFSENQPFPSLKMVLESLEPENVGFNIEIKWICQHRDGVWDGNSLTYFDMNVFLDIIL
 KTVLENSGKRRIVFSSFDADICTMVRQKQNKYPILFLTQGKSDIYPELMDLRSRTPPIAMSAQFENILG
 INAHTEDLLRNPSYVQEAkakGLVIFCWGDDTNDPENRRKLKEFGVNGLIYDRIYDWMPEQPNIFQVEQL
 ERLKQELPELKNCLCPTVSHFIPSSFCEPDIHVDANGIDSVENA

TRTRPLE - GFP Tag - V

Restriction Sites:

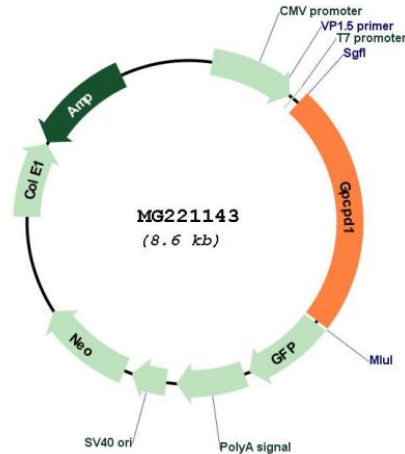
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



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

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