

Product datasheet for **MR208413**

Gmcl1 (NM_011818) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gmcl1 (NM_011818) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gmcl1
Synonyms:	2810049L19Rik; Btbd13; DIP; Gcl; Gcl-1; glc-1; mglc-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208413 representing NM_011818
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGCGCTCTCAGCAGCCGGTCTGCGGCCCGCAGGGCGCACAGAGCAGCCCGAACCCACGCCGGGG
 CTGGGGCGCGGCCCGCAGGTTCGACGCCGCGAAGATGCGGGCCACAGCTTCTGTTACTGTCCGGGCGG
 CCGCAAGCGCAAGCGCAGCAGCGGCACATTCTGCTACTGTACCCCGACTCCGAGACAGACGACGACGAG
 GACGAGGGCGACGAGCAGCAGAGGCTGCTGAACACGCCGCGCAGGAAAAAATTAAGAGCACATCAAAAT
 ACATCTACCAAACGCTGTTTTTGAATGGTGAACACAGTGACATTAAGATCTGTGCTCTAGGTGAAGAGTG
 GAGCTTACACAAAATCTACTTATGTCAATCTGGCTACTTTCTAGTATGTTCAAGTGGTCTTGGAAAAGAA
 TCCAGCATGAATATTATTGAAGTGGAGATTCCTGACCAGAACATTGATATAGAAGCACTGCAGGTGCGAT
 TTGGATCACTGTATCGAGATGACGTCTTAATAAGCCCAGCAGGGTCGTTGCCATTTTGGCAGCAGCTTG
 CATGCTGCAATTGGATGGTTTGATACAGCAGTGGGTGAGACAATGAAGGAGACCATCTCTGTGAGAACT
 GTGTGTGGCTATTACACATCGGCAGGGACCTATGGACTAGACTCTGTAAGAAAAAGTGCCTCGAGTGGC
 TGCTGAACAACCTCATGACTCACCAGAGTGTGGAGCTTTTCAAAGAACTCAGTATAAACGTCATGAAACA
 GCTCATTGGTTCGCTAACTTATTTGTGATGCAAGTGGAGATGGATGTATATACAGCTCTTAAAAAGTGG
 ATGTTCCCTCAGCTGGTGCCTTCTGGAATGGTCTTTAAAGCAGCTTTTACAGAAAACAGATGTCTGGT
 TTTCAAAGTGGAAAAAGACTTTGAAGGGCAGACTTTCCCTGAACTGAGCAGGGAAAACCATTTGCGCC
 CGTGTTCAGACATTTAAGGCTACAGTACATTATCAGTGATCTGGCTTCTGCAAGGATCATTGAGCAGGAT
 TCTCTGGTACCTTCAGAAATGGCTGGCGCAGTGTATAAACAGCAGTGGCTGGCTATGCTACGGGCTGAAC
 AAGCAGTGAAGTGGGGCTCAAGAAATCAATAAAGAAGAATGAGGAAAACAGCATGAGGTGTGGTTCG
 AAAGCTTGCCAAAAGATGGTGAGTACTGCTGGCGCTGGACAGGCTTCAATTTTCGGCTTTGACCTCCTTGTG
 ACTTACCAATCGATACATCATTTTCAAACGCAATACGCTGAACCAGCCATGTAGTGGATCTGTACAGT
 TACAGCTCGAAGGAGCATAGCATTTAGATTGCGCTTGGCTTCTTTTACAGTAGTGGGAAACTCATATG
 CAGTAGAGCAACTGGCTACCAAATACTGACGCTTAAAAAGACCAGGAGCAAGTGGTGTGAAGTGGAC
 AGCAGACTTCTGATCTTCCCTCTGTACATCTGCTGTAACCTTCTGTATATATCACCAGAAAAAGAACTG
 AGAGTAATCGTCACCCAGAAAACCCAGGACAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208413 representing NM_011818
 Red=Cloning site Green=Tags(s)

MGALSSRVLRPAGRTEQPEPTPGAGGAARRSDAGEDAGHSFCYCPGGRKRKRSSGTFICYHPDSEDDDE
 DEGDEQRLNTPRRKLLKSTSKYIYQTLFLNGENSDIKICALGEEWSLHKIYLCQSGYFSSMFGSWKE
 SSMNIIIELEIPDQNIIDIEALQVAFGSLYRDDVLKPSRVVAAILAACMLQLDGLIQQCGETMKETISVRT
 VCGYYTSAGTYGLDSVKKKCLEWLLNLMTHQSVELFKEL SINVMKQLIGSSNLFVMQVEMDVYTALKKW
 MFLQLVPSWNGSLKQLLTETDVWF SKWKDFEGTTFLETEQGKPFAPVFRHLRLQYIISDLASARIEQD
 SLVPSEWLA AVYKQWL AMLRAEQDSEVGPQEI NKEELEGNSMRCGRKLAKDGEYCWRWTGFNFGFDLLV
 TYTNRYIIFKRNTLNQPCSGSVSLQPRRSIAFRLRLASFDSGKLI CSRATGYQIL TLEKDQEQVVMNLD
 SRLLIFPLYICCNFLYISPEKRTE SNRHPENPGH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9046_f10.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_011818

ORF Size: 1572 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_011818.3](#), [NP_035948.3](#)

RefSeq Size: 2967 bp

RefSeq ORF: 1575 bp

Locus ID: 23885

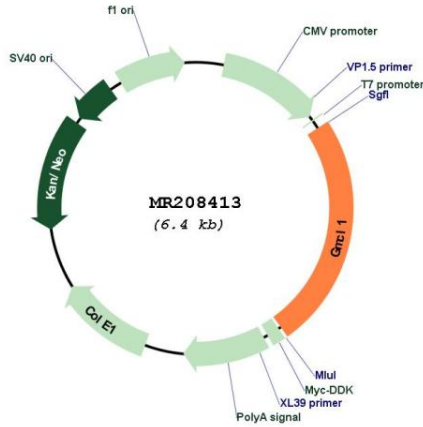
UniProt ID: [Q920G9](#)

Cytogenetics: 6 37.75 cM

MW: 60.1 kDa

Gene Summary: Possible function in spermatogenesis. Enhances the degradation of MDM2 and increases the amount of p53 probably by modulating the nucleocytoplasmic transport.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208413