

## Product datasheet for **RR200083**

### Gmcl1 (NM\_001010956) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gmcl1 (NM_001010956) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gmcl1
Synonyms:	Gcl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR200083 representing NM\_001010956  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGCGCTCTGAGCAGCCGGTCTGCGGCCCGGGGCGCACAGAGCAGCCCAACCCACGCCCGGTG  
 CTGGGGGCTCGGCCCGCAGATCGGACGCGGGCGAAGATGCGGCCACGGCTTCTGTTACTGTCCCGCGG  
 CCGCAAGCGCAAGCGCAGCAGCGGCACTTTCTGCTACTGTACCCCGAGTCAGAGACAGACGAAGACGAG  
 GACGAGGGCGACGAGCAGCAGAGGCTGCTGAACACGCGCGCAGGAAAAAATTAAGAGCACATCGAAAT  
 ACATCTACCAAACGCTGTTTTTGAATGGTGAACACAGTGACATTAAGATCTGTGCTCTAGGTGAAGAGTG  
 GAGCTTACACAAAATCTACTTATGTCAATCTGGCTACTTTCTAGTATGTTCAAGTGGTCTTGAAAAAGAA  
 TCCAGCATGAATATTATTGAAGTGGAGATTCCTGACCAGAACATTGATATAGAAGCACTGCAGGTTGCAT  
 TTGGATCACTGTATCGAGATGACGTCTTAATAAGCCCAGCAGGGTTGTCGCCATTTTGGCAGCAGCTTG  
 CATGCTGCAGTTGGATGGTTTGATACAGCAGTGTGGTGAAGGAGACCATCTCTGTAAGAAGT  
 GTGTGTGGCTATTACACATCGGCAGGGACCTATGGACTAGACTCTGTAAGAAAAAGTGCCTCGAGTGGC  
 TGCTGAACAACCTCATGACTCACCAGAGTGTGGAGCTTTTCAAAGAAGTCAATATAAACGTCATGAGGCA  
 GCTCATTGGTTTCACTAATTTTGTGATGCAAGTGGAAATGGATGTATATACAGCTCTGAAAAAGTGG  
 ATGTTCCCTCAGTTGGTGCCTTCTGGAATGGTCTTTAAAGCAGCTTTTACAGAAAACAGATGTCTGGT  
 TTTCAAAGTGGAAAAAGACTTTGAAGGGACGACTTTCTTGAAGTGAAGGAGAAAACCATTTGCGCC  
 CGTGTTCAGACATTTAAGGCTACAGTACATTATCAGTGATCTGGCTTCTGCAAGGATCATTGAGCAGGAC  
 TCTCTGGTACCTCAGAATGGCTGGCTTCAAGTATAAAGCAGCAGTGGTGGCTATGCTTCGGGCTGAAC  
 AAGACAGTGAAGTGGGGCTCAAGAAATCAATAAAGAAGAATGAGGAAAATAGCATGAGGTGTGGTAG  
 AAAGCTTGCCAAAGATGGTGAATACTGCTGGCGTGGACAGGTTTTAATTTGGCTTTGACCTCCTTGTG  
 ACTTACACCAATCGATACATCATTTTCAAACGCAATACGCTAAACCAGCCATGTAGTGGATCTGTACGCT  
 TGCAGCCTCGAAGAAGCATAGCATTTAGATTGCGCTTGGCTTCTTTGACAGTAGTGAAAACTCATATG  
 CAGTAGAGCGACTGGCTACCAAATCCTGACGCTTGAGAAAGACCAGGTACGTGTGCTTCTGCGCTTGGCT  
 CTTGTGTGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR200083 representing NM\_001010956  
 Red=Cloning site Green=Tags(s)

MGALSSRVLRPAGRTEQPEPTPGAGGSARRSDAGEDAAHGFYCPGGRKRKRSSGTFYCHPESETDEDE  
 DEGDEQQRLLNTPRRKLLKSTSKYIYQTLFLNGENSDIKICALGEEWSLHKIYLCQSGYFSSMFSGSWKE  
 SSMNIIIELEIPDQNIIDIEALQVAFGSLYRDDVLKPSRVVAIIAAACMLQLDGLIQCGETMKETISVRT  
 VCGYYTSAGTYGLDSVKKKCLEWLLNLMTHQSVELFKELSINVMRQLIGSSNLFVMQVEMDVYTKLKW  
 MFLQLVPSWNGSLKQLLTETDVWF SKWKDFEGTTFLETEQGKPFAPVFRHLRLQYIISDLASARIEQD  
 SLVPSEWLASVYKQWLAMLRAEQDSEVGPQEIINKEELEGNSMRCGRKLAKDGEYCWRWTFNFGFDLLV  
 TYTNRYIIFKRNTLNQPCSGSVSLQPRRSIAFRLRLASFDSGKLI CSRATGYQILTLEKDQVRVLLRLR  
 LVC

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001010956

**ORF Size:** 1479 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\\_001010956.3](#), [NP\\_001010956.1](#)

**RefSeq Size:** 1952 bp

**RefSeq ORF:** 1482 bp

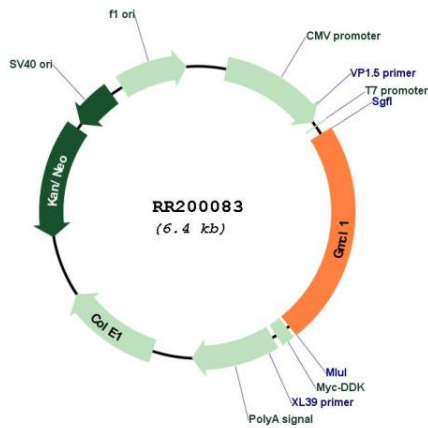
**Locus ID:** 312516

**Cytogenetics:** 4q34

**MW:** 56.1 kDa

**Gene Summary:**

This gene encodes a nuclear envelope protein that contains a broad-complex, tramtrack and bric a brac/ Pox virus and Zinc finger (BTB/POZ) protein-protein interaction domain. In mouse, this gene is expressed at high levels in the testis, and null mutant mice exhibit morphologically abnormal sperm that have chromatin condensation defects. These defects result in significantly impaired fertility, demonstrating a role for this gene in male germ cell development in mouse. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2015]

**Product images:**


Circular map for RR200083