

## Product datasheet for **RN200083**

### Gmcl1 (NM\_001010956) Rat Untagged Clone

#### Product data:

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



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**Fully Sequenced ORF:** >RN200083 representing NM\_001010956  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGCGCTCTGAGCAGCCGGTCTGCGGCCCGGGGCGCACAGAGCAGCCCAACCCACGCCCGGTG  
 CTGGGGGCTCGGCCCGCAGATCGGACGCGGGCGAAGATGCGGCCACGGCTTCTGTTACTGTCCCGCGG  
 CCGCAAGCGCAAGCGCAGCAGCGGCACTTTCTGCTACTGTCAACCCGAGTCAGAGACAGACGAAGACGAG  
 GACGAGGGCGACGAGCAGCAGAGGCTGCTGAACACGCGCGCAGGAAAAAATTAAGAGCACATCGAAAT  
 ACATCTACCAAACGCTGTTTTTGAATGGTAAAACAGTGACATTAAGATCTGTGCTCTAGGTGAAGAGTG  
 GAGCTTACACAAAATCTACTTATGTCAATCTGGCTACTTTCTAGTATGTTCAAGTGGTCTTGGAAAAGAA  
 TCCAGCATGAATATTATTGAACTGGAGATTCCTGACCAGAACATTGATATAGAAGCACTGCAGGTTGCAT  
 TTGGATCACTGTATCGAGATGACGTCTTAATAAGCCCAGCAGGGTTGTCGCCATTTTGGCAGCAGCTTG  
 CATGCTGCAGTTGGATGGTTTGATACAGCAGTGTGGTGAACCATGAAGGAGACCATCTCTGTAAGAACT  
 GTGTGTGGCTATTACACATCGGCAGGGACCTATGGACTAGACTCTGTAAGAAAAAGTGCCTCGAGTGGC  
 TGCTGAACAACCTCATGACTCACCAGAGTGTGGAGCTTTTCAAAGAACTCAGTATAAACGTCATGAGGCA  
 GCTCATTGGTTCATCTAACTTATTTGTGATGCAAGTGGAAATGGATGTATATACAGCTCTGAAAAAGTGG  
 ATGTTCCCTCAGTTGGTGCCTTCTGGAATGGTCTTTAAAGCAGCTTTTGACAGAAAACAGATGTCTGGT  
 TTTCAAAGTGGAAAAAGACTTTGAAGGGACGACTTTCCTTGAAGTGAAGGAGAAAACCATTTGCGCC  
 CGTGTTCAGACATTTAAGGCTACAGTACATTATCAGTGATCTGGCTTCTGCAAGGATCATTGAGCAGGAC  
 TCTCTGGTACCTTCAGAAATGGCTGGCTTCAAGTATAAAGCAGCAGTGGTGGCTATGCTTCGGGCTGAAC  
 AAGACAGTGAAGTGGGGCTCAAGAAATCAATAAAGAAGAACTGAGGAAAATAGCATGAGGTGTGGTAG  
 AAAGCTTGCCAAAGATGGTGAATACTGCTGGCGGTGGACAGTTTTAATTTGGCTTTGACCTCCTTG  
 ACTTACACCAATCGATACATCATTTTCAAACGCAATACGCTAAACCAGCCATGTAGTGGATCTGTACAGT  
 TGCAGCCTCGAAGAAGCATAGCATTTAGATTGCGCTTGGCTTCTTTGACAGTAGTGAAAACTCATATG  
 CAGTAGAGCGACTGGCTACCAAATCCTGACGCTTGAGAAAAGACCAGGTACGTGTGCTTCTGCGCTTGC  
 CTTGTGTGT**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001010956

**Insert Size:** 1482 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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

**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]

Transcript Variant: This variant (2) lacks the 3'-terminal exon and has a 3' end that extends into an intron compared to variant 1. It encodes isoform 2, which has a shorter and distinct C-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.