

Product datasheet for **RN200084**

Gmcl1 (NM_001033931) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gmcl1 (NM_001033931) 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: >RN200084 representing NM_001033931
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCGCTCTGAGCAGCCGGTCTGCGGCCCGGGGCGCACAGAGCAGCCCAACCCACGCCCGGTG
 CTGGGGGCTCGGCCCGCAGATCGGACGCGGGCGAAGATGCGGCCACGGCTTCTGTTACTGTCCCGCGG
 CCGCAAGCGCAAGCGCAGCAGCGCACTTTCTGCTACTGTCAACCCGAGTCAGAGACAGACGAAGACGAG
 GACGAGGGCGACGAGCAGCAGAGGCTGCTGAACACGCGCGCAGGAAAAAATTAAGAGCACATCGAAAT
 ACATCTACCAAACGCTGTTTTTGAATGGTGAACACAGTGACATTAAGATCTGTGCTCTAGGTGAAGAGTG
 GAGCTTACACAAAATCTACTTATGTCAACTCTGGCTACTTTCTAGTATGTTCAAGTGGTCTTGGAAAAGAA
 TCCAGCATGAATATTATTGAAGTGGAGATTCTGACCAGAACATTGATATAGAAGCACTGCAGGTTGCAT
 TTGGATCACTGTATCGAGATGACGTCTTAATAAGCCCAGCAGGGTTGTCGCCATTTTGGCAGCAGCTTG
 CATGCTGCAGTTGGATGGTTTGATACAGCAGTGGTGAGACCATGAAGGAGACCATCTCTGTAAGAACT
 GTGTGTGGCTATTACACATCGGCAGGGACCTATGGACTAGACTCTGTAAAGAAAAAGTGCCTCGAGTGGC
 TGCTGAACAACCTCATGACTCACCAGAGTGTGGAGCTTTTCAAAGAACTCAGTATAAACGTCATGAGGCA
 GCTCATTGGTTCACTAACTTATTTGTGATGCAAGTGGAAATGGATGTATATACAGCTCTGAAAAAGTGG
 ATGTTCCCTCAGTTGGTGCCTTCTGGAATGGTCTTTAAAGCAGCTTTTGACAGAAACAGATGTCTGGT
 TTTCAAAGTGGAAAAAGACTTTGAAGGGACGACTTTCCTTGAAGTGAAGCAGGGAAAACCATTTGCGCC
 CGTGTTCAGACATTTAAGGCTACAGTACATTATCAGTGATCTGGCTTCTGCAAGGATCATTGAGCAGGAC
 TCTCTGGTACCTTCAGAATGGCTGGCTTCAGTGTATAAGCAGCAGTGGTTGGCTATGCTTCGGGCTGAAC
 AAGACAGTGAAGTGGGGCTCAAGAAATCAATAAAGAAGAACTGAGGGAAATAGCATGAGGTGTGGTAG
 AAAGCTTGCCAAAGATGGTGAATACTGCTGGCGTGGACAGGTTTTAATTTGGCTTTGACCTCCTTG
 ACTTACCAATCGATACATCATTTTCAAACGCAATACGCTAAACCAGCCATGTAGTGGATCTGTACAGT
 TGCAGCCTCGAAGAAGCATAGCATTTAGATTGCGCTTGGCTTCTTTGACAGTAGTGAAAACTCATATG
 CAGTAGAGCGACTGGCTACCAAATCCTGACGCTTGAGAAAGACCAGGAGCAAGTGGTGTGAAGTTGGAC
 AGCAGACTGCTGATCTTCCCTCTATACATCTGCTGTAACCTCTTGTATATATCACCAGAAAAAGAACTG
 AGAGTAATCGTCACCCAGAAAACCCAGGACACTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001033931

Insert Size: 1575 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_001033931.2](#), [NP_001029103.1](#)

RefSeq Size: 2947 bp

RefSeq ORF: 1575 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 (1) represents the longer transcript and encodes the longer 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.