

Product datasheet for **RG200928**

GMCL1 (NM_178439) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GMCL1 (NM_178439) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GMCL1
Synonyms:	BTBD13; GCL; GCL1; SPATA29
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG200928 representing NM_178439
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGATCGTTGAGCAGCCGGTCTGCGCCAGCAAGACCAGCCCTTGCCAGCAGGCGCAGGGTGCCA
 GGGCGGGGGGCTCGGCCCGAGGCGGACACTGGAGACGATGCGGCGGGCCACGGATTCTGTACTGTGC
 GGGCAGCCACAAGCGCAAGCGGAGCAGCGGCTCTTCTGCTACTGTACCCCTGACTCGGAGACGGACGAG
 GATGAGGAGGAGGGGACGAGCAGCAGCGGCTCCTCAACACCCCTCGAAGGAAAAAATTAAGAGTACAT
 CTAATAATATTTATCAACATTATTTTTGAATGGTGAAAACAGTGACATTAAGATTTGTCTTAGGAGA
 AGAATGGAGCTTACACAAAATATTTATGTCAATCTGGCTACTTTCTAGTATGTTCACTGTTCTTGG
 AAAGAATCCAGCATGAATATTATTGAAGTGGAGATTCCTGACCAGAACATTGATGTAGAAGCACTGCAGG
 TTGCATTTGGTTCAGTATCGAGATGATGCTTGATAAAGCCAGTCGAGTTGTTGCCATTTTGGCAGC
 AGCTTGTGTTGCTGCAGTTGGACGGTTAATACAGCAGTGTGGTGAGACAATGAAGGAAACAGTTAATGTG
 AAAACTGTATGTGGCTATTACACATCAGCAGGGACCTATGGATTAGATTCGTAAAGAAAAAGTGCCTTG
 AATGGCTTCTAAACAATTTGATGACTCACCAGAATGTTGAACTTTTTAAAGAACTCAGTATAAATGTCAT
 GAAACAGCTCATTGGTTCATCTAACTTATTTGTGATGCAAGTGGAGATGGATATACACTGCTCTAAAA
 AAGTGGATGTTCCCTTCAACTTGTGCCTTCTTGGAAATGGATCTTTAAAACAGCTTTTGACGAAAACAGATG
 TCTGGTTTTCTAAACAGAGGAAAGATTTTGAAGGTATGGCCTTTCTTGAACTGAACAAGGAAAACCATT
 TGTGTCAGTATTCAGACATTTAAGGTTACAATATATTATCAGTATCTGGCTTCTGCAAGAATATTGAA
 CAAGATGCTGTAGTACCTCAGAATGGCTCTCTCTGTGTATAAACAGCAGTGGTTTGTATGCTGCGGG
 CAGAACAGGACAGTGAAGTGGGCTCAAGAAATCAATAAAGAAGAACTAGAGGGAAAACAGCATGAGGTG
 TGGTAGAAAGCTTGCCAAAGATGGTGAATACTGCTGGCCTTGGACAGGTTTTAACTTCGGCTTCGACCTA
 CTTGTAACCTACACCAATCGATACATCTTTTCAACGCAATACACTGAATCAGCCATGTAGCGGATCTG
 TCAGTTTACAGCCTCGAAGGAGCATAGCATTAGATTACGTTTGGCTTCTTTGATAGTAGTGGAAAAC
 AATATGTAGTAGAACAACTGGCTATCAAACTTACACTTGAAGGATCAGGAACAAGTGGTGTGAAC
 TTGGACAGCAGGCTTCTGATCTCCCTTATATATCTGCTGTAACCTCTGTATATATCACCAGAAAAAA
 AGAAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG200928 representing NM_178439
 Red=Cloning site Green=Tags(s)

MGSLSSRVLRQPRPALAQQAQGARAGGSARRPDTGDDAAGHGFCYCAGSHKRKRSSGSFCYCHPDESETDE
 DEEEGDEQRLNTPRRKLLKSTSKYIYQTLFLNGENSDIKICALGEEWSLHKIYLCQSGYFSSMFSGSW
 KESSMNIIELEIPDQNIQVAFGLYRDDVLIKPSRVVAILAAACLLQLDGLIQCGGETMKETVNV
 KTVCGYYTSAGTYGLDSVKKCLEWLLNLMTHQNVLEFKEL SINVMKQLIGSSNLFVMQVEMDIYTALK
 KWMFLQLVPSWNGSLKQLLTETDVWFSKQRKDFEGMAFLETEQGKPFVSVFRHLRLQYIISDLASARIE
 QDAVVPSEWLSSVYKQWFAMLRAEQDSEVGPQEINKEELEGNMRCGRKLAKDGEYCWRWTGFNFGFDL
 LVTYTNRYIIFKRNTLNQPCSGSVSLQPRRSIAFRLRLASFSSGKLI CSRTTGYQILTLEKDQEQVVMN
 LDSRLLIFPLYICCNFLYISPEKKN

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_178439

ORF Size: 1545 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_178439.5](#)

RefSeq Size: 2402 bp

RefSeq ORF: 1548 bp

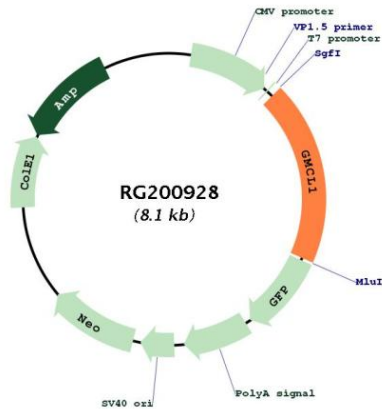
Locus ID: 64395

UniProt ID: [Q96IK5](#)

Cytogenetics: 2p13.3

Gene Summary:

This gene encodes a nuclear envelope protein that appears to be involved in spermatogenesis, either directly or by influencing genes that play a more direct role in the process. This multi-exon locus is the homolog of the mouse and drosophila germ cell-less gene but the human genome also contains a single-exon locus on chromosome 5 that contains an open reading frame capable of encoding a highly-related protein. [provided by RefSeq, Jul 2008]

Product images:


Circular map for RG200928