

Product datasheet for **RG220319**

GCM1 (NM_003643) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GCM1 (NM_003643) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GCM1
Synonyms:	GCMA; hGCMA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220319 representing NM_003643 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAACCTGACGACTTTGATTCTGAAGACAAAGAGATATTAAGCTGGGATTAATGATGTGAACTGC
CACAGAACGTGAAAAAACCGACTGGTTCCAGGAGTGGCCAGATTCTATGCCAAACACATCTACAGCTC
GGAGGACAAGAATGCGCAGCGGCACCTGAGCAGCTGGCCATGCGCAATACCAACAACCACAACCTCCGC
ATCCTCAAGAAGTCTGCCTGGGTGTGGTGTGCGGCCGACTGTCTCGCAGAGGAGGGGCGCAAGA
TCTACCTGAGACCTGCCATCTGTGACAAGGCCCGCAGAAGCAGCAGCGGAAACGCTGTCCAACCTGTGA
CGGGCCTCTGAAGCTCATCCCTTGCCGAGGTATGGGGGCTTCCCGGTACCAACTTCTGGAGGCACGAC
GGACGCTTTATATTTTTCCAGTCAAAGGAGAGCATGATCATCCAAAACAGAAACCAAGTTAGAAGCTG
AGGCAAGAAGAGCCATGAAGAAAGTGAACACAGCACCTTCTCCGTCTCATTGAGCCTGAAGGGGAGCAC
AGAGACCAGGTCTCTCCAGGTGAAACACAAAGTCAGGGGAGTTACCTTTAACTTGGTCTTTCCAGGAA
GGCGTCCAATTGCCTGGTAGTTACAGTGGACATTTAATAGCTAACACTCCTCAGCAGAACTCACTAAATG
ATTGCTTTTCTCTCCAAGAGTTATGGTCTGGGAGGAATCACAGATCTGACTGACCAGACTTCCACTGT
GGACCCCATGAAGCTCTATGAAAAGCGCAAATTTGTCAGTAGCAGAACCTACAGTAGTGGAGACCTGCTT
CCTCCTTCTGCCCTCCGGAGTCTACTCTGATCATGGCGATCTACAAGCGTGGAGTAAAAATGCTGCTTTGG
GGAGAAATCATCTTGTGACAACCTGTTATTCCAATTATCCTTTTCTCTGACCAGCTGGCCTTGCAGCTT
CTCTCCTTCCAAAACCTTTCAGAACCTTTTACCAGCAGCTTCCATTGGAGCCACCTGCAGCCAAAAC
GGCTGTCCCCATTATGGCCAAATCCAGCGGTAATCTTTATGAAGAGAAAGTACATGTGGATTTTAAACA
GCTACGTCCAGTCTCCTGCATACCATTACCTCAAGAAGACCCCTTTCTTTCACCTACGCTCTCATCC
TCATCAGCAATATTCAGTCCAAGCAAGAGCAGCAAATGGGATTTTGGAGGAAATGACATACTTGGGT
TTGGATCACTGCAACAATGATATGCTTCTGAACCTGTGTCCTTTGAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG220319 representing NM_003643
 Red=Cloning site Green=Tags(s)

MEPDDFSEDKEILSWDINDVKLPQNVKKTDFWQEWPDYAKHIYSSDKNAQRHLSSWAMRNTNNHNSR
 ILKKSCLGVVVCGRDCLAEGRKIYLRPAICDKARQKQRKPCNCDGPLKLI PCRGHGGFPVTFWRHD
 GRFIFQSKGEHDHPKPKETKLEAEARRAMKKVNTAPSSVSLSLKGSTETRSLPGETQSQGSPLPLTWSFQE
 GVQLPGSYSGHLIANTPQQNSLNDCCFSFSKSYGLGGITDLTDQTSTVDPMKLYEKRKLSSSRTYSSGDL
 PPSASGVYSDHGD LQAWSKNAALGRNHLADNCYSNYPFLTSWPCSFSPSQNSSEPFYQQLPLEPPAAKT
 GCPPLWPNPAGNLYEEKVHVDNFNSYVQSPAYHSPQEDPFLFTYASHPHQYSLPSKSSKWFEEEMTYLG
 LDHCNNDMLLNLCLPLR

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_003643

ORF Size: 1308 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_003643.4](#)

RefSeq Size: 2763 bp

RefSeq ORF: 1311 bp

Locus ID: 8521

UniProt ID: [Q9NP62](#)

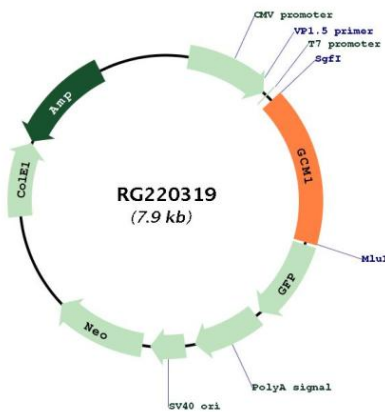
Cytogenetics: 6p12.1

Domains: GCM

Protein Families: Transcription Factors

Gene Summary: This gene encodes a DNA-binding protein with a gcm-motif (glial cell missing motif). The encoded protein is a homolog of the Drosophila glial cells missing gene (gcm). This protein binds to the GCM-motif (A/G)CCCGCAT, a novel sequence among known targets of DNA-binding proteins. The N-terminal DNA-binding domain confers the unique DNA-binding activity of this protein. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG220319