

## Product datasheet for **SC303528**

### GCM2 (NM\_004752) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	GCM2
Synonyms:	FIH2; GCMB; hGCMB; HRPT4
Mammalian Cell	None
Selection:	
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**Fully Sequenced ORF:**

```
>OriGene sequence for NM_004752 edited
GGCGACCTGTCCTTTTTCTTCTATTTTTCAGAACCTGGGCGGAAAGCGCGAGCGAGTT
GGGAGATGCCGGCGCCGCGGTGCAGGAAGCGGTGCGCTGTGCTCTACGGGATGCAG
CTCAGCTGGGACATCAACGATCCGAGATGCCTCAGGAGCTGGCCCTCTTTGACCAATTC
CGAGAGTGGCTGACGGCTATGTGCGCTTCATCTACAGCAGCGATGAGAAGAAGGCACAG
CGTCACCTGAGCGGCTGGGCCATGCGCAACACCAACAACCACAATGGCCACATCCTCAAG
AAGTCGTGCTGGGTGTGGTGTGTACACAGGCCTGCACCCTGCCCCGACGGTTCCCGC
CTGCAGCTGAGGCCGCCATCTGCGACAAGGCACGGCTGAAACAGCAGAAGAAGGCATGC
CCTAACTGTCACTTCTGCTTTGGAGTTGATTCTTGTCGAGGGCAGCGGATACCCCGTA
ACCAACTTTTGGCGGCTGTATGGCAACGCGATCTTTTTTCAGGCCAAGGGAGTTCATGAT
CATCCAAGACCAGAGAGCAAAATCAGAGACAGAAGCTAGAAGAAGCGCCATCAAGAGACAA
ATGGCCTCTTTCTACCAACCCAGAAAAAGAGAATTCGAGAATCCGAGGCAGAAGAAAAT
CAAGACAGCAGTGGTCATTTACGAACATACCTCCCTTGAAAAATCCAGAAGACTTTGAT
ATAGTTACTGAAACAGCTTCCCTATTCCAGGGCAGCCTTGCCCTTCCCTCCCAAAGTCT
GATGTTTACAAAGCTACCTGTGACCTAGCCACCTTTCAAGGAGACAAAATGCCACCTTC
CAGAAATACTCAAGCCCAAGAATCTATTTGCCTAGGCCACCTTGACGCTATGAATTGGCA
AACCTGTTATACAAATTCAAGCCCATATCCCACCTTTATAAGGATTCCACCAAGTATC
CCTAATGACACAGACTGGGTTCATCTGAACACACTACAATGTAATGTCAATTCATACAGC
AGCTATGAGAGAAGCTTTGATTTCACCAACAAACAGCATGGCTGGAACACAGCTCTTGA
AAACCCAGCCTTGTGGAAGGACTAACCATGGGCAGTTTCAGGCCATGGCCACTCGCCCT
TATTATAACCCAGAGCTTCCCTGCAGGTACCTCAGACTCCACCACAGGTGCCCTGCC
CTACAAACCGTGATCACCACCACCACTAAAGTGTCTACCAGGCCTACCAGCCCCCTGCT
ATGAAATACAGTGACAGTGTGCGAGAGGTGAAGAGCCTTCGAGCTGTAATATGCTCCT
GAAGATACTGGGATGTCTGTCTATCCAGAACCCTGGGGTCCCTCCGGTGACAGTCAACAGG
GCAGCCTCTCCTTCAGGGCCACCTCCTATGAAAATTGCAGGAGATTGCCGGGCCATCAGA
CCCCTGTGGCTATTTCCACGAGCCAGTTTCTCTAGGACAGATGAAGCAGAGACTTGG
GATGTGTGTCTGTCTGGGCTGGGCTCCGAGTCAGTTACTCAGACAGAGTGGGTCCCTTC
TTTACCTACAACAATGAGGATTTTGAAGACAATCCAGGGGACA
```

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_004752

**Insert Size:**

1600 bp

**OTI Disclaimer:**

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u>NM_004752.1, NP_004743.1</u>
<b>RefSeq Size:</b>	2373 bp
<b>RefSeq ORF:</b>	1521 bp
<b>Locus ID:</b>	9247
<b>UniProt ID:</b>	<u>O75603</u>
<b>Cytogenetics:</b>	6p24.2
<b>Gene Summary:</b>	<p>This gene is a homolog of the Drosophila glial cells missing gene, which is thought to act as a binary switch between neuronal and glial cell determination. The protein encoded by this gene contains a conserved N-terminal GCM motif that has DNA-binding activity. The protein is a transcription factor that acts as a master regulator of parathyroid development. It has been suggested that this transcription factor might mediate the effect of calcium on parathyroid hormone expression and secretion in parathyroid cells. Mutations in this gene are associated with hypoparathyroidism. [provided by RefSeq, Jul 2008]</p>