

## Product datasheet for **SC321056**

### Grancalcin (GCA) (NM\_012198) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Grancalcin (GCA) (NM_012198) Human Untagged Clone
Tag:	Tag Free
Symbol:	Grancalcin
Synonyms:	GCL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_012198.2  
 ACCTGCAGCTGCGCCTCCTTGCACCTGCGCCTGTGCTTTTTCTCCAGCACTGCGGACGC  
 GACTCGAGGGTGACGCTCGCTCCGCTCGTCCCCTCGTCATGGCCTACCCGGGATACGGA  
 GGAGGGTTTGGAAATTTAGCATTACAGGTGCCAGGAATGCAGATGGGACAGCCAGTGCCA  
 GAAACAGGCCAGCTATACTCCTCGATGGATACTCTGGGCCAGCATATTCAGACACTTAT  
 TCCTCAGCTGGTGACTCCGTGTATACTTACTTCAGTGTGTTGCTGGACAGGATGGTGAA  
 GTGGAGCTGAAGAAGCTCAGAGATGTTTGACACAGTCTGGAATTAATGGAAGTACTCT  
 CCCTTCAGTTTGGAAACCTGCAGAATTATGATTGCCATGTTGGATAGAGATCACACAGGA  
 AAAATGGGATTTAATGCATTCAAAGAGCTATGGGCAGCTCTTAATGCCTGGAAGGAAAAAC  
 TTCATGACTGTTGATCAAGATGGAAGTGGCACAGTAGAACATCATGAGTTGCGTCAAGCC  
 ATGGTCTTATGGGTTATAGGTTGAGTCCCAAACATTAACAATTGTTAAACGTTAT  
 AGCAAGAATGGCAGAATTTCTTTGATGATTATGTTGCTTGCTGTGTAAGCTTCGAGCA  
 TTGACAGATTTCTTTAGGAAAAGAGACCACTTGCAACAAGGGTCTGCGAATTTATATAT  
 GACGATTTTTGCAGGGCACTATGGCAATTTGAATGCTTAGAATTTAAACCTGAAGAGA  
 CACTGTGAATTTCTTTGTTTGGAGAAGTGAAGTGGACTACTTTAAAACCTTTAAGGGTT  
 TTCTATGTTCTTCTACCTGTTAAACCTCTCCCTTTCTGTGTGTTTTATTTTAGCAGA  
 TAGTTCAAAGCAATAAAAGATTTCTTTTTAATTTGAGGTATTACTGCTTTTGGAAAAGT  
 TATTTTATAAATATGTGCATATTGTCATAAAATATTGTATGATTAATTGATTTAAATAAT  
 GCTTAGCCTTAATTTTAGATAATGTAAATTTAGAGGAATGTACTTTACAAGATAGATTGT  
 ATAAGAAGCCAAATAATGAAAGCCTAGAAAAAACTAATTTATACTTATCTGAAGTTACA  
 AATTAGACTTTTAAATTTCTTTGTAGTTGGTGGTGGTTGAGGGTTGGCTAGAAATGAAA  
 GCCTGGATTTTGTCCATGTTTGTAAATATAGTTTGTCCCTTGATCAAATAATCAGAGAAA  
 AGAAACTTAAAGATCTTTGTCTGTGAAGAAGAAAATTATCTCCCTAGTTCAATCTGTAGT  
 GAAATAAGACTACAGAAGGCATTGTTTTTCTTTTTTATTTTTTGTATTATATATTTTT  
 CTTAAATATGTTTTATTGTCTTCTCTAAGCAAAGATTCTTAATAAACATAGTATTTCTC  
 TCTGCGTCTATTTCATTAGTGAAGACATAGTTCACCTAAAATGGCATCCTGCTCTGAAT  
 CTAGACTTTTTAGAAATGGCATAATGTTTTGATGATATGTCAACATTCAAATTTGCCTA  
 ATTAATGTTGTTTAAATGTAATGTCAACTCTTATAAACTTAAAAATAAAACAAGTAAT  
 TAACCACTCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_012198

**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).

**OTI Annotation:** 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.

**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\\_012198.2](#), [NP\\_036330.1](#)

**RefSeq Size:** 1642 bp

**RefSeq ORF:** 654 bp

**Locus ID:** 25801

**UniProt ID:** [P28676](#)

**Cytogenetics:** 2q24.2

**Domains:** EFh

**Gene Summary:** This gene encodes a calcium-binding protein that is abundant in neutrophils and macrophages. In the absence of divalent cation, this protein localizes to the cytosolic fraction; with magnesium alone, it partitions with the granule fraction; and in the presence of magnesium and calcium, it associates with both the granule and membrane fractions. Alternative splicing and use of alternative promoters results in multiple transcript variants. [provided by RefSeq, Aug 2016]