

Product datasheet for **RG202677**

Grancalcin (GCA) (NM_012198) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grancalcin (GCA) (NM_012198) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Grancalcin
Synonyms:	GCL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202677 representing NM_012198 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCTACCCGGGATACGGAGGAGGGTTTGGAAATTTAGCATTAGGTGCCAGGAATGCAGATGGGAC
AGCCAGTGCCAGAAACAGGCCAGCTATACTCCTCGATGGATACTCTGGGCCAGCATATTCAGACACTTA
TTCCTCAGCTGGTGACTCCGTGTATACTTACTTCAGTGTCTGTTGCTGGACAGGATGGTGAAGTGGATGCT
GAAGAATTTCAGAGATGTTTGACACAGTCTGGAATTAATGGAATTACTCTCCCTTCAGTTTGGAAACCT
GCAGAATTATGATTGCCATGTTGGATAGAGATCACACAGGAAAAATGGGATTTAATGCATTCAAAGAGCT
ATGGGCAGCTCTTAATGCCTGGAAGGAAAACCTCATGACTGTTGATCAAGATGGAAGTGGCACAGTAGAA
CATCATGAGTTGCGTCAAGCCATTGGTCTTATGGGTTATAGGTTGAGTCCTCAAACATTAACATAATTG
TTAAACGTTATAGCAAGAATGGCAGAAATTTCTTTGATGATTATGTTGCTTGCTGTGGAAGCTTCGAGC
ATTGACAGATTTCTTTAGGAAAAGAGACCCTTGCAACAAGGGTCTGCGAATTTTCATATATGACGATTTT
TTGCAGGGCACTATGGCAATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG202677 representing NM_012198
 Red=Cloning site Green=Tags(s)

MAYPGYGGGFGNFSIQVPMQMGQVPVETGPAILLDGYSGPAYSDTYSSAGDSVYTYFSAVAGQDGEVDA
 EELQRCLTQSGINGTYSFSLCTCRIMIAMLDRDHTGKMGFNAFKELWAALNAWKENFMTVDQDGSSTVE
 HHELRQAIGLMGYRLSPQTLTTIVKRYSKNGRIFFDDYVACCVKLRLALTDFFRKRDLQQGSANFIYDDF
 LQGTMAI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012198

ORF Size: 651 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_012198.2](#), [NP_036330.1](#)

RefSeq Size: 1642 bp

RefSeq ORF: 654 bp

Locus ID: 25801

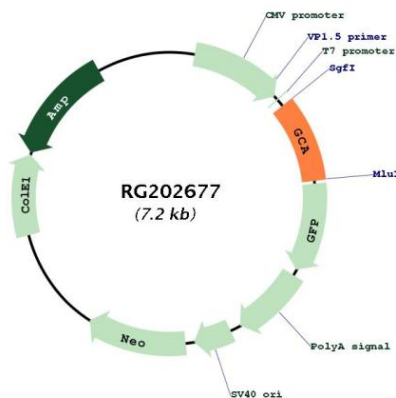
UniProt ID: [P28676](#)

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]

Product images:



Circular map for RG202677