

## Product datasheet for RN213995

### Gcc2 (NM\_001107633) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gcc2 (NM_001107633) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Gcc2
Synonyms:	Lims1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN213995 representing NM_001107633 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGAGGATTCTGCTCAAGATGCTGTGACTGCAGCACCCCTCCGGGACCCCGAAATCCAAGCTAGAAACAT  
TGCCAGAGAAGATCTCATCAAGTTTGCCAAGAAGCAGATGATGCTCCTACAGAAAGCCAAAGCAAGGTG  
TACAGAATTAGACAAAGAAGTTGAAGAGCTCAAATCAAAACCTGTTGACGGAGGAACTGATGATATGATT  
AAGGTGCTAACTGAACGCTTGGATGCTTCTTCTGAAAAAGCAGAGACTGAACAACAGTGTCTGTGTC  
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TTCAGCAGAAGCTAAGAAGCTGCTTTTAACGAAAAAGACGCTCTTCTTGAAGCTATAAATCGCCTACAAGG  
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 TCTCAGGCTGAACTGAGGGAGCTAAACAAGAAAGGGAACACCTGGAAATGTGATTGACCAACTGAAAA  
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 AAGTTATGTTGAGTCAATCTGAGAACACCATGTTGAAGTCTGAACACGCCCAGACAATGTGTGAGCTGA  
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 CTTACAGAGCCCTCCTTATGGCATAAGAAATTTACCAAGAAGAAATGGCTGAGAAGCTCAGTTCACCA  
 CGAAGAGTGCAGATCACTTAAATGGCCTGCTTCGGGAGACAGAGGCTACCAACGCCATCCTTATGGAGCA  
 AATTAAGCTTCTCAAAGTGAATAAAGAAGACTGGAAAGAAACCAAGAGCGGGAGAGTCTGTGGCTAAC  
 CTGGAGTACTTGAAGAATGTCCTACTGCGGTTCATTTTCTGAAGCCGGGTAGTGAAGAGAGAGGCTTC  
 TTCTGTGATAGACAGATGCTGCAGCTCAGCCCTGAAGAAAAGGAAAGCTTGCCACAGTTGCTCAAGG  
 TGAGGAAGAAAGTGCCTCTGTTCTCTGGATGGGCATCTACCTTCATAGCTGTTCTGGACTGCGATAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

Sgfl-Mlul

**ACCN:**

NM\_001107633

**Insert Size:**

5040 bp

**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).

**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\\_001107633.1](#), [NP\\_001101103.1](#)**RefSeq Size:**

6526 bp

**RefSeq ORF:**

5040 bp

**Locus ID:**

309798

**UniProt ID:**[D3ZZL9](#)**Cytogenetics:**

20q11

**Gene Summary:**

Golgin which probably tethers transport vesicles to the trans-Golgi network (TGN) and regulates vesicular transport between the endosomes and the Golgi. As a RAB9A effector it is involved in recycling of the mannose 6-phosphate receptor from the late endosomes to the TGN. May also play a role in transport between the recycling endosomes and the Golgi. Required for maintenance of the Golgi structure, it is involved in the biogenesis of noncentrosomal, Golgi-associated microtubules through recruitment of CLASP1 and CLASP2 (By similarity).[UniProtKB/Swiss-Prot Function]