

## Product datasheet for **SC302173**

### GCOM1 (NM\_001018091) Human Untagged Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | GCOM1 (NM_001018091) Human Untagged Clone  |
| Tag:                      | Tag Free   |
| Symbol:                   | GCOM1  |
| Synonyms:                 | gcom; Gcom2; GRINL1A; MYZAP; MYZAP-POLR2M  |
| Mammalian Cell Selection: | Neomycin   |
| Vector:                   | pCMV6-Entry (PS100001)   |
| E. coli Selection:        | Kanamycin (25 ug/mL)   |
| Fully Sequenced ORF:      | >SC302173 representing NM_001018091.<br>Blue=Insert sequence Red=Cloning site Green=Tag(s) |

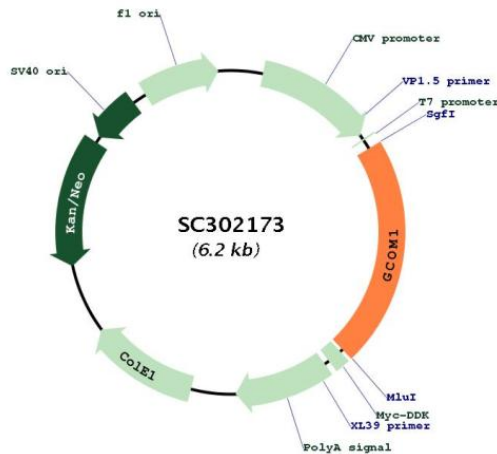
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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTGCGCTCCACGTCCACGGTCACCCTGCTCTCGGGCGGCCCGCCAGGACGCCCGGGCGCCAGC
AGGAGGGCAAATGTTTGCAGACTACGGCTACCTCCTGAGAGTCCAGTTCCTGAGCAATGTGAA
AAGAAGATTGAGAGAAAAGAGCAGCTTCTTGACCTGAGCAATGGAGAACCCTACCAGGAACTTCCTCAG
GGTGTGTTTATGGTGTGGTGCGAAGATCAGATCAAAATCAGCAGAAAAGAAATGGTGGTGTATGGGTGG
TCCACCAGTCAGCTGAAAGAAGAGATGAACTACATCAAAGATGTGAGAGCCACTTTGAAAAGGTGAGA
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TCCCATGCTCAGCAGGAGTATCTGGAGAATCACATCCAAACCCAGTCGCTGCGCCCTGGATCGTTTTAAT
GCCATGAACTCAGCCTTGGCATCAGATTCCATTGGCCTGCAGAAAACCCCTCGTGGATGTGACTTTGGAA
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CAAGAAGCCAATGCTGAGGTGATGCGAGAGATGACCAAGAAGCTGTACAGCCAGTATGAGGAGAAGCTG
CAGGAAGAACAGAGGAAGCACAGTGCTGAGAAGGAGGCTCTTTTGAAGAAACCAATAGTTTTCTGAAA
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CATGAAAACAGAAAATGCTGGGGAGTTAACTGATTCTGACAAGGAAAGGTATCAGCAGTTGGAGGAGGCA
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AAGCAAAGCTCGCAGCGCAAAAATTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
```



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Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM\_001018091

Insert Size: 1338 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](#)

**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\\_001018091.6](#)

**RefSeq Size:** 4457 bp

**RefSeq ORF:** 1338 bp

**Locus ID:** 145781

**UniProt ID:** [POCAP1](#)

**Cytogenetics:** 15q21.3

**Protein Families:** Druggable Genome

**MW:** 51.8 kDa

**Gene Summary:** This locus represents naturally occurring readthrough transcription between the neighboring MYZAP (myocardial zonula adherens protein) and POLR2M (polymerase (RNA) II (DNA directed) polypeptide M) genes on chromosome 15. Alternative splicing results in multiple readthrough transcript variants. Readthrough variants may encode proteins that share sequence identity with the upstream gene product or with both the upstream and downstream gene products. Some readthrough transcript variants are also expected to be candidates for nonsense-mediated decay (NMD). [provided by RefSeq, Oct 2013]  
Transcript Variant: This variant (2, also known as Gcom2) lacks an alternate exon in the 3' coding region, which results in a frameshift, compared to variant 1. The resulting isoform (2) is shorter and has a distinct C-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.