

## Product datasheet for **RC239519**

### **GCOM1 (NM\_001285900) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GCOM1 (NM_001285900) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GCOM1
Synonyms:	gcom; Gcom2; GRINL1A; MYZAP; MYZAP-POLR2M
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide  
Sequence:**

>RC239519 representing NM\_001285900  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCTGCGCTCCACGTCCACGGTACCCTGCTCTCGGGCGGCCGCCAGGACGCCCGGGCGCCAGCA  
 GGAGGGCAAATGTTTGCAGACTACGGCTGACCGTACCTCCTGAGAGTCCAGTTCTGAGCAATGTGAAAA  
 GAAGATTGAGAGAAAAGAGCAGCTTCTTACCTGAGCAATGGAGAACCTACCAGGAACTTCTCAGGGT  
 GTTGTTTATGGTGTGGTGCAGATCAGATCAAAATCAGCAGAAAAGAAATGGTGGTGTATGGGTGGTCCA  
 CCAGTCAGCTGAAAGAAGAGATGAACTACATCAAAGATGTGAGAGCCACTTTGGAAAAGGTGAGAAAAGCG  
 AATGTATGGAGACTATGATGAGATGAGACAGAAGATTCGACAGCTCACCCAGGAACTATCAGTTTCCCAT  
 GCTCAGCAGGAGTATCTGGAGAATCACATCCAACCCAGTCGTCTGCCCTGGATCGTTTTAATGCCATGA  
 ACTCAGCCTTGGCATCAGATTCCATTGGCCTGCAGAAAACCTCGTGGATGTGACTTTGGAAAACAGCAA  
 CATTAAAGGATCAAATCAGAAATCTGCAGCAGACGTATGAAGCATCCATGGACAAGCTGAGGGAAAAGCAG  
 AGGCAGTTGGAGGTAGCGCAAGTTGAAAACCAGCTGCTAAAAATGAAGGTGGAATCGTCCCAAGAAGCCA  
 ATGCTGAGGTGATGCGAGAGATGACCAAGAAGCTGTACAGCCAGTATGAGGAGAAGCTGCAGGAAGAACA  
 GAGGAAGCACAGTCTGAGAAGGAGGCTCTTTGGAAAGAAACCAATAGTTTTCTGAAAGCGATTGAAGAA  
 GCCAATAAAAAGATGCAAGCAGCAGAGATCAGCCTAGAGGAGAAAAGACCAGAGGATCGGGGAGCTGGACA  
 GGCTGATTGAGCGCATGGAAAAGGAACGTCATCAACTGCAACTTCAACTCCTAGAACATGAAACAGAAAT  
 GTCTGGGAGTTAACTGATTCTGACAAGGAAAGGTATCAGCAGTTGGAGGAGGCATCAGCCAGCCTCCGT  
 GAGCGGATCAGACACCTAGATGACATGGTGCATTGCCAGCAGAAGAAAGTCAAGCAGATGGTCGAGGAGA  
 TTGAATCATTAAAGAAAAGTTGCAACAGAAAACAGCTCTTAATACTGCAGCTTTTAGAAAAGATATCTTT  
 CTTAGAAGGAGAGAATAATGAACTACAAAAGCAGGTTGGACTATTTAACAGAAAACCCAGGCCAAGACCGAA  
 GTGAAAACAGAGAGATAGGAGTGGGCTGTGATCTTCTACCCAGAAAATTCATTTGCAAATTGCCCGACA  
 AAGGTA AAAAGATCTTTGACTCTTTGCCAAACTGAAAGCTGCCATTGCAGAATGTGAAGAAGTTAGAAG  
 AAAAAGTGAAGTGTAAACCTGTTAGTTTAGACTGTAAGCTAAGGCAAAAAGCAATTGCAGAAGTTGAT  
 GTGGGTACAGATAAGGCCAGAAATCTGACCCGATACTTGATACTTCATCACTAGTTCTGGATGTTCT  
 CTGTAGATAACATCAAGTCATCTCAAACCTCACAAAACCCAGGGACTTGGACGTCCTACTCTTGAAGGTGA  
 TGAAGAGACTTCAGAGTTGAGTACACAGTGAATAAGGGCCAGCTTCCAGCAATAGAGACAGGGTACCA  
 CCTTCATCTGAAGCTAGTGAGCATCACCCGCGGCATCGTGTTCAGTCAAGCGGAAGATACTTCCAGCA  
 GCTTTGACAACCTGTTTATTGACAGTTACAGAGGATCACCATTCGCGACCAAGGTGAACAACAGTCAGA  
 AGAAAACGCAAGTACTAAGAACTTGACAGGCCTTTCCAGTGGGACTGAGAAGAAAACCTCATTACATGGAA  
 GTGCTAGAAAATGCGAGCCAAAACCCAGTGCCCCAGCTGCGTAAATTTAAAACCAATGTGTTACCTTTTC  
 GACAAAATGATTCATCTAGTCATTGCCAGAAGAGTGGGTCTCCTATTTCTCAGAAGAGCGGCGCGCAG  
 GGATAAGCAGCATCTTGATGACATCACAGCAGCTCGGCTTCTACCACTTACCATATGCCACGCAGCTG  
 CTCTCCATAGAAGAATCCTTGGCACTTCAGAAAACAGCAGAAAACAGAATTATGAGGAGATGCAAGCAAAGC  
 TCGCAGCGCAAAAATTAGCTGAAAGACTGAATATTTAAATGCGGAGTTATAATCCAGAAGGGGAGTCTTC  
 AGGGAGATACCGAGAAGTAAGGGATGAAGATGACGATTGGTCTCTGATGAATTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239519 representing NM\_001285900  
 Red=Cloning site Green=Tags(s)

MLRSTSTVTLLSGGAARTPGAPSRANVCRLRLTVPPEPVPVPEQCEKKIERKEQLLDL SNGEPTRKLPQG  
 VYGVVRRSDQNQQKEMVYVYVWSTSQLKEEMNYIKDVRATLEKVRKRMVGDYDEMRQKIRQLTQELSVSH  
 AQQEYLENHIQTQSSALDRFNAMNSALASDSIGLQKTLVDVTLENSNIKDQIRNLQQTYEASMDKLREKQ  
 RQLEVAQVENQLLKMVVESSQEAANAEMREMTKKLYSQYEEKLQEEQRKHSAEKEALLEETNSFLKAIIE  
 ANKKMQAAEISLEEKDQRIGELDRLEIRMEKERHQLQLLLEHETEMSGELTDSKERYQQLLEASASLR  
 ERIRHLDDMVHCQKQKVKQMVVEEIESLKKKLQKQLLILQLLEKISFLEGENNELQSRLDYLTTETQAKTE  
 VETREIGVGDLLPRKFI CKLPDKGKKIFDSFAKLKAAIAECEVRRKSELFNPVSLDCKLRQKAI AEVD  
 VGTDAQNSDPILDTSSLVPGCSSVDNIKSSQTSQNQGLGRPTLEGEETSEVEYTVNKG PASSNRDRV  
 PSSEASEHHRHRVSSQAEDTSSFDNLFIDRLQRITIA DQGEQQSEENASTKNLTGLSSGTEKKPHYME  
 VLEMRAKNPVPQLRKFKTNVLPFRQNDSSSHCQKSGSPISSEERRRRDKQHLDDITAARLLPLHHMPTQL  
 LSIEESLALQKQKQNYEEMQAKLAAQKLAERLNIKMRSYNPEGESSGRYREVRDEDDDDWSDEF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

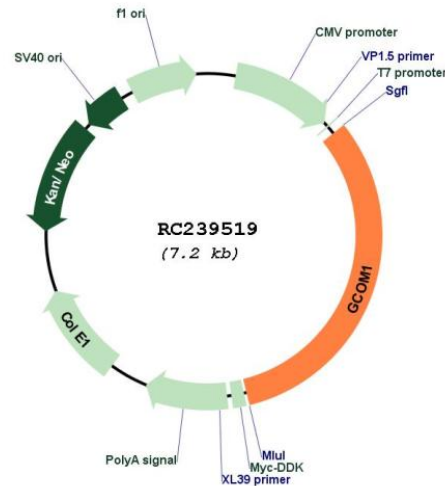
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**


**ACCN:** NM\_001285900

**ORF Size:** 2295 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\\_001285900.3](#), [NP\\_001272829.1](#)

**RefSeq Size:** 5307 bp

**RefSeq ORF:** 2298 bp

**Locus ID:** 145781

**Cytogenetics:** 15q21.3

**Protein Families:** Druggable Genome

**MW:** 88.3 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]