

## Product datasheet for MC223167

### Gart (NM\_010256) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gart (NM_010256) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gart
Synonyms:	Gaps; Prgs
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC223167 representing NM_010256 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGCCCGAGTTCTTGTTCATCGGTAGCGGGGAAGGGAACATACCCTGGCCTGGAAGCTCGCACAGT  
CTCCTCAGGTCAAGCAAGTGTGGTTGCCCCAGGAAACGCAGGCACTGCGTGCCTGGGAAGATCTCCAA  
TGCTGCTGTCTGTCAATGATCACAGTGCCCTCGCTCAGTTCTGCAAGGATGAAAAGATTGAAGTCTGTA  
GTTGTCCGACAGAGGCCCTCTGGCTGCAGGAATTGTTGGGACCTGACCTCTGCAGGAGTACGATGCT  
TTGGCCCCACAGCACAAGCAGCTCAATTAGAGTCCAGTAAGAAGTTTGCTAAAGAGTTTATGGACCGCCA  
TGAATCCCAACTGCACAGTGGAGAGCATTACCAACCCCTGAAGATGCCTGCAGCTTTATTACAAGCGCG  
AACTTTCCTGCTTTGGTTGTGAAGGCCAGTGGCCTTGCAGCAGGGAAGGGAGTGATTGTGGCCAAGAGCC  
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GAAATGCCCCAGCACAAGACCAATAAGCGATTGCTGGATGGAGACGAAGGCCCAACACCGGGGGGATGG  
GAGCCTACTGCCAGCACCTCAGGTTTCTAAGGACTTGTAGTAAAAATTAAGAACAATTTCTTCAGAG  
AGCAGTAGACGGCATGCAGCAGGAGGGTGCGCCGTACACAGGAATCTTTATGCTGGTATAATGCTGACC  
AAAGATGGCCAAAAGTGTGGAGTTTAAATGGCGCTTTGGTGATCCGGAATGCCAGGTCATCCTCCCA  
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TTGGCTAGAAAACCACAGTGCCGTAACCGTCGTCATGGCGAGTAAAGGGTACCCTGGAGCCTACACCAAA  
GGCGTGGAGATTACAGGTTTCTGAGGCCAGGCTTTAGGACTGCAGGTATTCCATGCAGGCACTGCTC  
TAAAGATGGCAAAGTAGTGACCAGCGGGGCAGGGTCTCACCGTGACAGCTGTCCAGGAAAATCTCAT  
GTCAGCCCTTGTGAGGCCAGGAAAGGACTCGCTGCTCTAAAGTTTGGAGGCCATCTATAGAAAGGAC  
ATTGGCTCCGTGCTGTGGCCTTCTCCAGCGGCCAGGGCTTGACTTACAAGGACTCCGGAGTAGACA  
TCGCAGCTGAAAATATGCTGGTTAAGAAAATTCAGCCTTAGCAAAGCCACCTCCAGACCAGGCTGCAG  
GTTGACCTTGGGGCTTTGCTGGTCTTTTATTGAAAGCAGCTGTTTCAAAGATCCTCTTCTGGCC



TCTGGAACAGATGGTGTGGGAACTAAACTAAAGATTGCGCAGCTGTGCAATAAGCATGATTCCATCGGGC  
 AGGATCTGGTGGCCATGTGTGTGAACGACATCCTCGCCAGGGAGCAGAGCCCCTTCTTCTTCTGACTA  
 CTTTTCTGTGGGAAGCTCGACCTCAGTACAACGAAGCCGTCATTGCTGGAATTGCTGCAGCTTCCAG  
 CAGGCTGGCTGTGCCCTGCTGGGTGGGAGACAGCAGAGATGCCAACATGTACCCTCTGGAGAGTATG  
 ATCTTGTGGGTTTGTGTTGGTGTCTATGGAGAGACACCAGAAGCTCCCTCAGCTAGAAAAGGATCACCGA  
 AGGGGATGCTGTTATTGGAGTGGCTTCACTGGTCTTACAGCAATGGGTTTACGCTTGTGAGGAAAATC  
 GTGGAGAGGTCTTCGCTCCAATACTCTCCAGCACCTGGTGGTGTGGAGATCAGACCTTAGGGGACT  
 TACTTCTAACTCAACCAGGATCTACAGCCATCACTGCTGCCCATCATACGTTACAGACGTGTCAAAGC  
 TTTTGCTCATATCACTGGAGCGGGTGTGAAAAACATCCCCAGAGTCTCCCTCAGAAGTTTGGAGTA  
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 AAGAAGAAATGGCCAGGACATCAACTGTGGGATTGGAGCTGCCCTGGTGGTGTCAAAGGACCAGGCCGA  
 GCAGGTTCTGCATGACGTTCCGCGCGGCAGGAGGAAGCCTGGGTGATAGGCAGTGTGTTGCGTGTCT  
 GAAGATCCCCTCGTGTGAGGTTAAGAATCTGATTGAAACCATAACAACGAATGGGTGATTGGTGGCAA  
 ATGGCTTCTGAAAAGTAATTTCCCTGTGCAACAAAAGAAGGCAAGAGTGGCTGTCTTGATATCTGGAAC  
 AGGGTCAACCTCCAGGCGCTCATAGATAGCACCCGGGATCCCAAGAGCTCCTCACATATTGTTCTGTG  
 ATCTCCAACAAAGCCGCTAGCCGGCTTAGACCGAGCTGAGCGAGCTGGTATTCCCACAGGGTAATTA  
 ATCACAATTATATAAAATCGTGTGAGTTTGAATGCAATGCAAGTACCACGTCCTGGAAGAGTTCTCTGT  
 AGACATCGTCTGTCTTGCAGGGTTCATGAGGATCCTCTCTGGGCCCTTCTGAGAAAATGGGACGGGAAA  
 ATGCTCAACATCCACCCATCCTTGTCCCTTCTTAAAGGTTCAAATGCCACAGCAAGTCTGGAAG  
 CTGGAGTACAATCACTGGGTGTACCGTACACTTTGTGCTGAAGATGTAGATGCCGGACAAATCATCT  
 GCAGGAAGCTGTCCCTGTGCGGAGGGGTGACACTGTGGCAACGCTGTCTGAACGGGTCAAAGTGGCAGAA  
 CATAAGATCTTCTGCGCTCTTACGCTGGTGGCCAGCGGGGCTGTGCAGCTGCGAGAAGATGGCAAGA  
 TCCACTGGGCCAAGGAGCAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2273\\_a08.zip](https://cdn.origene.com/chromatograms/ja2273_a08.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_010256

**Insert Size:** 3033 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](#)

**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\\_010256.2](#), [NP\\_034386.2](#)

**RefSeq Size:** 3329 bp

**RefSeq ORF:** 3033 bp

**Locus ID:** 14450

**UniProt ID:** [Q64737](#)

**Cytogenetics:** 16 53.18 cM