

## Product datasheet for **MR222974**

### Gata6 (NM\_010258) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gata6 (NM_010258) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gata6
Synonyms:	AA410133; GATA-6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR222974 representing NM\_010258  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCTTGACTGACGGCGGCTGGTGCCTGCCAAAGCTTTCGGGGCTGTGCTGCGGACGCCGGCGACT  
 CCGGGCCCTTCCAGCGGGGAGCCCTCTCGCCGCTTCCCCCATCTCGTCTTCTGCTCCTCCTGCTC  
 CCGGGGCGGGATCGCGGTCCCTGCGGCCAGCAACTGCAGGACGCCGAGCTCGACGCCGAGGCGGTG  
 GCGGGACCTCCGGGCGCTCGCTCTTGCTCAGCCCTACGCTCGCATCCCTTCGCCGCTGCCACGGAG  
 CCGCGGCGCCGGGTGCGAGGCCCGGGAGCGCCCTGTCGACTTGGGAGGACCTGTTGCTTCTACTGA  
 CCTCGATCAGGCCGCGACCGCCAGCAAGCTGTTGTGGTCCAGCCGGGGCGCCAACTGAGCCCTTCGCG  
 GCCGAGCAGCCGAGGAAATGTACCAGACCCTCGCCGCTGTCAGCCAGGGGCCCGCGCTTACGACG  
 GCGCGCCCGCGGCTTCGTGCACTCCGACGCGCGCGCGGCTGCCGCCGCGGACGCTCCCGGT  
 CTACGTGCCACACGCGCTGGCTCCATGCTGTCCGGCTGCCCTACCTTCAAGGGGCGGGCAGCGGG  
 CCCAGCAATCACGCGGGCGAGCGGGTGCCACCCAGGCTGGTCCAGGCCCTCCGCCGACAGCCCCCGT  
 ATGGCGGGGTGGCGCAGCCGGCGCGCGCGCCGACCTGGAGGTGCGGGATCGGCTACGGCCACGC  
 CTCTGCACGCTTCCCTACTCGCCAGCCCGCCATGGCCAACGGCGCCGCGGAGACCCGGGGGTAC  
 GTGGTGCGGGCGCACGGGCGCAGGAGTGTGAGTGGAGGTGGCGGACGCTGGCGCCATGGTGGCC  
 GGGAGCACCAGTACAGCTCGCTGTCCGACGCTCGGCCGCTGAACGGAACGTACCACCACCACCATACCA  
 TCACCCGACCTACTCGCCCTACATGGCCGACCGCTGACTCCTGCCTGGCCAGCAGGACCCTCGAAACG  
 CCGGTGCTCCACAGCTTACAGGGCCGCGGGAGCTCCACTCCCGGTGCCAGGGGCCAGCAGCAGAC  
 TGTGGAGGACCTGTCGAGAGCCGCGAGTGCCTGAACTGCGGCTCCATCCAGACGCCACTGTGGAGAG  
 AGACGGCACCGGTCATTACCTGTGCAATGCATGCGGTCTCTACAGCAAGATGAATGGCCTCAGCAGGCC  
 CTCATCAAGCCACAGAAGCGCTGCCTTCATCACGGCGGCTGGACTGTCTGTGCCAACTGTACACCA  
 CAACCACTACCTTATGGCGTAGAAATGCTGAGGTGAGCCTGTGTGCAATGCTTGCGGGCTCTATATGAA  
 ACTCCATGGGGTGCCTCGACCCTTGTATGAAAAAGAAGGAATCAAACCAGGAAACGAAACCTAAA  
 AATATAAATAAGTCAAAGCTTGTCCGGTAACAGCAGTGGCTCTGTCCCTATGACTCCTACTTCTCTT  
 CTTCTAATTCAGATGACTGCACAAAAAATACTTCTCTTACACAAGCGACCACCTCAGGGTAGGGG  
 ATCAGTGTGCTGCAGTGGGAGAAAACGCCAACCCGAGAACAGTGCCTCAAGTATTCAGGTCAAGC  
 GGCTCTACATAGGTGTCAGTCTGTCTCCCTGCCGAAGTACATCCTCCGTGCGACAGGATTCTGGT  
 GTGCTCTGGCCCTGGCC

**ACGCGT**ACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR222974 representing NM\_010258  
 Red=Cloning site Green=Tags(s)

MALTDGGWCLPKRFGAAAADAGDSGPFPAEPSSPLSPISSSSSSCSRGGDRGPCGASNCRTPQLDAEAV  
 AGPPGRSLLLSPYASHPFAAAHGAAAPGVAGPSALSTWEDLLLFTDLQAAATASKLLWSSRGAKLSPFA  
 AEQPEEMYQTLAALSSQGPAAAYDAPGGFVHSAAAAAAAAAASSPVYVPTTRVGSMLSGLPYLQAGSG  
 PSNHAGGAGHPGWSQASADSPPYGGGAAGGGAAGPGGAGSATAHASARFPYSPSPMANGAARDPGGY  
 VAAGGTGAGSVSGGSLAAMGGREHQYSSL SAARPLNGTYHHHHHHHTYSPYMAAPLTPAWPAGPFET  
 PVLHSLQGRAGAPLPVPRGPSTDLLLEDLSESRVCVNCGSIQTPLWRRDGTGHYLCNACGLYSKMNGLSRP  
 LIKPQKRVPSRRLLGLSCANCHTTTTLWRRNAEGEPVCNACGLYMKLHGVRPLAMKKEGIQTRKRKPK  
 NINKSKACSGNSGVSVMPTPTSSSSNSDDCKNTSPSTQATTSGVGASVMSAVGENANPENSCLKYSQGD  
 GLYIGVSLSSPAEVTSSVRQDSWCALALA

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja1230\\_f01.zip](https://cdn.origene.com/chromatograms/ja1230_f01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_010258

**ORF Size:** 1767 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 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\\_010258.3](#), [NP\\_034388.2](#)

**RefSeq Size:** 3194 bp

**RefSeq ORF:** 1770 bp

**Locus ID:** 14465

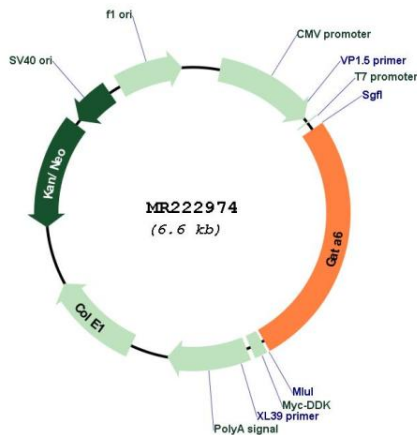
**UniProt ID:** [Q61169](#)

**Cytogenetics:** 18 5.63 cM

**MW:** 59.8 kDa

**Gene Summary:** Transcriptional activator that regulates SEMA3C and PLXNA2 (PubMed:19666519). May regulate genes that protect epithelial cells from bacterial infection (By similarity). Involved in gene regulation specifically in the gastric epithelium (By similarity). Involved in bone morphogenetic protein (BMP)-mediated cardiac-specific gene expression (PubMed:15329343). Binds to BMP response element (BMPRE) DNA sequences within cardiac activating regions (PubMed:15329343).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR222974