

Product datasheet for **MG222974**

Gata6 (NM_010258) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gata6 (NM_010258) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gata6
Synonyms:	AA410133; GATA-6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG222974 representing NM_010258
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCTTGACTGACGGCGGCTGGTGCCTGCCAAAGCCTTCGGGGCTGCTGCTGCGGACGCCGGCGACT
 CCGGGCCCTTCCAGCGGGGAGCCCTCTCGCGCTTCCCCCATCTCGTCTTCTGCTCCTCCTGCTC
 CCGGGGCGGGATCGCGGTCCCTGCGGCCAGCAACTGCAGGACGCCGAGCTCGACGCCGAGGCGGTG
 GCGGGACCTCCGGGCGCTCGCTCTTGCTCAGCCCTACGCTCGCATCCCTTCGCCGCTGCCACGGAG
 CCGCGGCGCCGGGTGCGAGGCCCGGGAGCGCCCTGTCGACTTGGGAGGACTGTTGCTTCTACTGA
 CCTCGATCAGGCCGACCGCCAGCAAGCTGTTGTGGTCCAGCCGGGGCGCCAACTGAGCCCTTCGCG
 GCCGAGCAGCCGAGGAAATGTACCAGACCCTCGCCGCTGTCAGCCAGGGGCCCGCGCTTACGACG
 GCGCGCCCGCGGCTTCGTGCACTCCGACGCGCGCGCGGCTGCCGCCGCGGACGCTCCCGGT
 CTACGTGCCACACGCGCTGGCTCCATGCTGTCCGGCTGCCCTACCTTCAAGGGGCGGGCAGCGGG
 CCCAGCAATCACGCGGGCGAGCGGGTGCCACCCAGGCTGGTCCAGGCTCCGCCGACAGCCCCCGT
 ATGGCGGGGTGGCGCAGCCGGCGCGCGCGGACCTGGAGGTGCGGGATCGGCTACGGCCACGC
 CTCTGCACGCTTCCCTACTCGCCAGCCCGCCATGGCCAACGGCGCCGCGGAGACCCGGGGGTAC
 GTGGTGCGGGCGCACGGGCGCAGGAGTGTGAGTGGAGGTGGCGGACGCTGGCGCCATGGTGGCC
 GGGAGCACCAGTACAGCTCGCTGTCCGAGCTCGGCCGCTGAACGGAACGTACCACCACCACCATACCA
 TCACCCGACCTACTCGCCCTACATGGCCGACCGCTGACTCCTGCCTGGCCAGCAGGACCTTCGAAACG
 CCGGTGCTCCACAGCTTACAGGGCCGCGGGAGCTCCACTCCCGGTGCCAGGGGCCAGCACAGACC
 TGTGGAGGACCTGTGAGAGCCGCGAGTGCCTGAACGCGGCTCCATCCAGACGCCACTGTGGAGAG
 AGACGGCACCGGTCAATTACCTGTGCAATGCATGCGGTCTCTACAGCAAGATGAATGGCCTCAGCAGGCC
 CTCATCAAGCCACAGAAGCGCTGCCTTATCACGGCGGCTTGGACTGTCTGTGCCAACTGTACACCA
 CAACCACTACCTTATGGCGTAGAAATGCTGAGGTGAGCCTGTGTGCAATGCTTGCGGGCTCTATATGAA
 ACTCCATGGGGTGCCTCGACCACTTGTATGAAAAAGAAGGAATCAAACCAGGAAACGAAACCTAAA
 AATATAAATAAGTCAAAGCTTGTCCGGTAACAGCAGTGGCTCTGTCCCTATGACTCCTACTTCTCTT
 CTTCTAATTCAGATGACTGCACAAAAATACTTCTCTTACACAAGCGACCACCTCAGGGTAGGGG
 ATCAGTGTGCTGCAGTGGGAGAAAACCCAACCCGAGAACAGTGACCTCAAGTATTCAGGTCAAGAC
 GGCTCTACATAGGTGTCAGTCTGTCTCCCTGCCGAAGTACATCCTCCGTGCGACAGGATTCTGGT
 GTGCTCTGCCCTGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG222974 representing NM_010258
 Red=Cloning site Green=Tags(s)

MALTDGGWCLPKRFGAAAADAGDSGPFPAEPSSPLSPISSSSSSCSRGGDRGPCGASNCRTPQLDAEAV
 AGPPGRSLLLSPYASHPFAAAHGAAAPGVAGPGSALSTWEDLLFTDLQAAATASKLLWSSRGAKLSPFA
 AEQPEEMYQTLAALSSQGPAAAYDGAPGGFVHSAAAAAAAAAASSPVYVPTTRVGSMLSGLPYLQGAGSG
 PSNHAGGAGHPGWSQASADSPPYGGGAAGGGAAGPGGAGSATAHASARFPYSPSPMANGAARDPGGY
 VAAGGTGAGSVSGGGSLAAMGGREHQYSSL SAARPLNGTYHHHHHHHTYSPYMAAPLTPAWPAGPFET
 PVLHSLQGRAGAPLPVPRGPSTDLLLEDLSESRECVNCGSIQTPLWRRDGTGHYLCNACGLYSKMNGLSRP
 LIKPQKRVPSRRLGLSCANHTTTTTLWRRNAEGEPCVACGLYMKLHGVPRLAMKKEGIQTRKRKPK
 NINKSKACSGNSGVSVMPTPTSSSSNSDDCTKNTSPSTQATTSVGVASVMSAVGENANPENSCLKYSGQD
 GLYIGVSLSSPAEVTSSVRQDSWCALALA

TRTRPLE - GFP Tag - V

Chromatograms:

https://cdn.origene.com/chromatograms/ja1954_e05.zip

Restriction Sites:

Sgfl-Mlul

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 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.

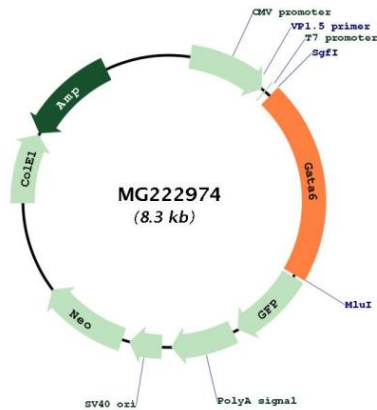
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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

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 MG222974