

Product datasheet for **MC215787**

Gata4 (NM_008092) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gata4 (NM_008092) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gata4
Synonyms:	Gata-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC215787 representing NM_008092
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTACCAAAGCCTGGCCATGGCCGCCAACACGCCCCCGCCGGCGCCTACGAAGCAGTGGCCCTG
 GCGCCTTCATGCACAGCGCGGGCGCCGCTCCTCGCCCGTCTACGTGCCACTCCGCGGGTGCCGTCTC
 TGTGCTGGCCTGTCTACCTGCAGGGCGGTGGCAGTGCCGCTGCAGCTGGAACCACTCGGGTGGCAGC
 TCCGGGGCGGCCGTCGGGTGCGGGCCCTGGGACCCAGCAGGGTAGCCCTGGCTGGAGCCAAGCTGGAG
 CCGAGGGAGCCGCTACACCCCGCCGCGTGTCCCGCGCTTCTTTCCCGGGGACTACTGGTCCCT
 GGCGGCCGCTGCCCGCTGCCGAGCCCGGAAGCTGCAGCCTACGGCAGTGGCGGGGGCGGGGGC
 GCTGGTCTGGCTGGCCGAGAGCAGTACGGGCGTCCGGGCTTCGCCGGCTCCTACTCCAGCCCTACCCAG
 CCTACATGGCCGACGTGGGAGCATCCTGGGCCGAGCCGCTGCCGCTCTGCCGGCCCTTCGACAGCCC
 AGTCTGCACAGCCTGCCTGGACGGGCCAACCCCTGGAAGACACCCCAATCTCGATATGTTTGATGACTTC
 TCAGAAGGCAGAGAGTGTGTCAATTGTGGGGCCATGTCCACCCCACTCTGGAGGGGAGATGGGACGGGAC
 ACTACCTGTGCAATGCCTGTGGCCTCTATCACAAGATGAACGGCATCAACCGGCCCTCATTAAAGCCTCA
 GCGCCGCTGTCCGTTCCCGCCGGGTAGGCCTCTCCTGTGCCAACTGCCAGACTACCACCACACGCTG
 TGGCGTCGTAATGCCGAGGGTGAGCCTGTATGTAATGCCTGCGGCCTCTACATGAAGCTCCATGGGGTTC
 CCAGGCCCTCTTGAATGCCGAAGGAGGGGATCAAACAGAAAACGGAAGCCCAAGAACCTGAATAAATC
 TAAGACGCCAGCAGGTCTGTGGTGGAGCCCTCCCTCCCTCCAGTGGTGCCTCCAGCGGTAACCTCAGC
 AATGCCACTAGCAGCAGCAGCAGCAGTGAAGAGATGCCCCCAATCAAGACAGAGCCCGGGCTGTCATCTC
 ACTATGGGCACAGCAGCTCCATGTCCAGACATTCAGT : ACTGTGTCGGGCCACGGGCCCTCCATCCATC
 CAGTGTCTGTCTGCTCTGAAGCTGTCCCAAGGCTATGCATCTCCTGTCACTCAGACATCGCAGGCCAG
 CTCCAAGCAGGACTCTTGGAACAGCCTGGTCTGGCTGACAGTCATGGGGACATAATCACCGCGTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_008092

Insert Size: 1326 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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: [BC137824](#), [AAI37825](#)

RefSeq Size: 2299 bp

RefSeq ORF: 1326 bp

Locus ID: 14463

UniProt ID: [Q08369](#)

Cytogenetics: 14 33.24 cM

Gene Summary: Transcriptional activator that binds to the consensus sequence 5'-AGATAG-3' and plays a key role in cardiac development (By similarity). In cooperation with TBX5, it binds to cardiac super-enhancers and promotes cardiomyocyte gene expression, while it downregulates endocardial and endothelial gene expression (By similarity). Involved in bone morphogenetic protein (BMP)-mediated induction of cardiac-specific gene expression (By similarity). Binds to BMP response element (BMPRE) DNA sequences within cardiac activating regions (By similarity). Acts as a transcriptional activator of ANF in cooperation with NKX2-5 (PubMed:9584153). Promotes cardiac myocyte enlargement (By similarity). Required during testicular development (By similarity). May play a role in sphingolipid signaling by regulating the expression of sphingosine-1-phosphate degrading enzyme, sphingosine-1-phosphate lyase (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) uses an alternate in-frame donor splice site in the central coding region compared to variant 1. The encoded isoform (2) is one amino acid shorter than 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.