

Product datasheet for **RR204299**

Gata4 (NM_144730) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gata4 (NM_144730) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gata4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR204299 representing NM_144730 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTACCAAAGCCTGGCTATGGCCGCCAACACGGGCCCCCGCGGGCGCCTACGAAGCGGGTGGACCTG
GCGCCTTCATGCACAGTGCAGGCGCCGCGTCTCGCCCGTCTACGTGCCACTCCGCGGGTGCCGTCCTC
TGTGCTGGGCTGTCTACCTGCAGGGCGGAGGAGTGGTGTCTTCTGGAGCCACTCGGGTGGCAGC
TCCGGGGCCGGCCGTCGGGTCTGGGCTGGGACCCAGCAGGGTAGCCCGGGCTGGAGCCAGGCTGGAG
CTGAGGGAGCCGCTTACACCCACCGCCTGTGTCCCGCGCTTCTCCTCCCGGGGACTGGGTCCTC
GGCGGCCCGCCGCGCGCTGCCGAGCCCGGAAGCTGCAGCCTACAGCAGTAGCGGCGGGCAGCCGCG
GCTGGCCTGGCTGGCCGAGAGCAGTACGGGCGTCCGGGCTTCGAGGCTCCTACTCCAGCCCTACCCAG
CCTACATGGCCGATGTGGGCGCATCCTGGGCGCAGCCGCTGCCGCTCCGCGGCCCTTCGACAGCCC
AGTCTGCACAGCCTACCTGGCCGGCCAAACCCTGCGAGACACCCCAATCTCGATATGTTTGATGACTTC
TCAGAAGGCAGAGAGTGTGCAACTGCGGGGCCATGTCCACCCACTCTGGAGGCGAGATGGGACAGGAC
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GCGCCGGCTGTGCCTCCGCGGGTAGGCCTCTCCTGTGCCAACTGCCAGACTACCACCACCACTG
TGGCGCCGTAACGCTGAGGGCGAGCCTGTTTGCAATGCCTGCGGCTCTACATGAAGCTCCATGGGGTTC
CCAGGCCTCTTGCAATGCGGAAGGAGGGATTCAAACCAGAAAACGGAAGCCCAAGAATCTGAATAAATC
TAAGACACCAGCAGGTCCTCCTGGCGAGAGCCTCCCTCCCTCCAGTGGTGCCTCCAGCAACTCCAGCAAC
GCCACCAGCAGCAGCAGCAGTGAAGAGATGCGCCCATCAAGACAGAGCCCGGGCTGTCTACTCACT
ATGGGCACAGCAGCTCCATGTCCAGACATTCAGTACTGTGTCCGGCCATGGGTCTCCATCCATCCAGT
GCTGTCCGCTCTGAAGCTCTCCCAAGGCTATCCATCTCCTGTCACTCAGACATCACAGGCCAGCTCC
AAGCAGGACTCTGGAACAGCCTGGTCTGGCTGACAGTCATGGGGACATAATCACCGCG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RR204299 representing NM_144730
 Red=Cloning site Green=Tags(s)

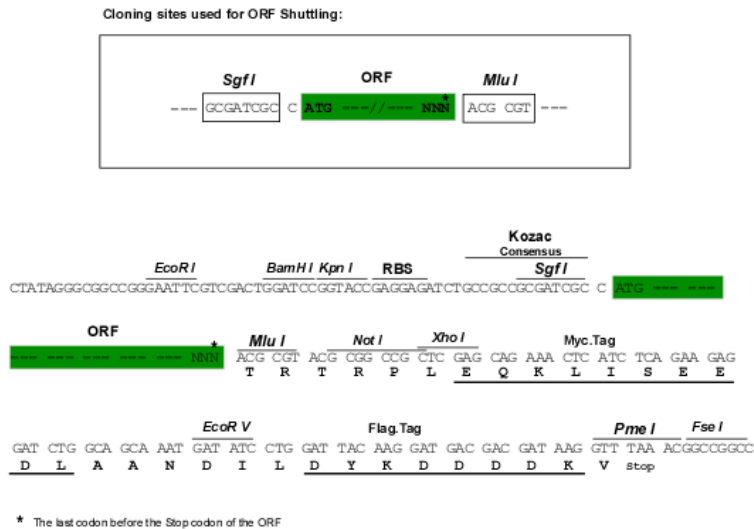
MYQSLAMAANHGPPPGAYEAGGPGAFMHSAGAASSPVYVPTPRVPSSVLGLSYLQGGGSGAASGATSGGS
 SGAGPSGAGPGTQQGSPGWSQAGAEGAAAYTPPVSPRFSFPGTTGSLAAAAAAAAAREAAAYSSSGGAAG
 AGLAGREQYGRPGFAGSYSSPYPAYMADVGASWAAAAASAGPFDSPVLHSLPGRANPARHPNLDMFDDF
 SEGRECVCNCGAMSTPLWRRDGTGHYLCNACGLYHKMNGINRPLIKPQRRLSASRRVGLSCANCQTTTTL
 WRRNAEGEPVCNACGLYMKLHGVPRLAMRKEGIQTRKRKPKNLNLSKTPAGPPGESLPPSSGASSNSSN
 ATSSSSSEEMRIKTEPGLSSHYGHSSMSQTFSTVSGHGSSIHPVLSALKLSPQGYPSPVTQTSQASS
 KQDSWNSLVLADSHGDIITA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1997_e06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_144730

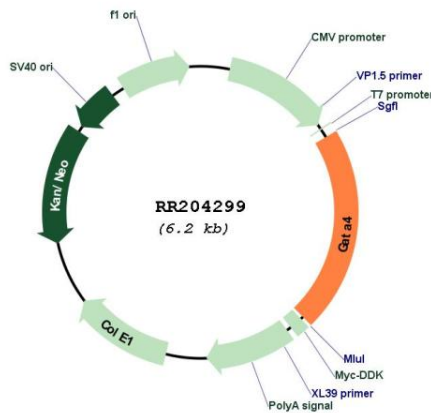
ORF Size: 1320 bp

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:	<ol style="list-style-type: none"> 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_144730.1 , NP_653331.1
RefSeq Size:	3313 bp
RefSeq ORF:	1323 bp
Locus ID:	54254
UniProt ID:	P46152
Cytogenetics:	15p12
MW:	45 kDa
Gene Summary:	plays a role in regulation of cardiac-myocyte specific gene expression; interacts with dHAND (HAND2) to activate transcription of several cardiac-specific genes [RGD, Feb 2006]

Product images:



Circular map for RR204299