

Product datasheet for **RC204066**

FOXA2 (NM_021784) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FOXA2 (NM_021784) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FOXA2
Synonyms:	HNF-3-beta; HNF3B; TCF3B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC204066 representing NM_021784
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGGGAGCGGTGAAGATGGAAGGGCACGAGCCGTCGACTGGAGCAGCTACTATGCAGAGCCCGAGG
 GCTACTCCTCCGTGAGCAACATGAACGCGGCCCTGGGGATGAACGGCATGAACACGTACATGAGCATGTC
 GGCGGCCCCATGGGAGCGGCTCGGGCAACATGAGCGCGGGCTCCATGAACATGTCGTCGTACGTGGG
 GCTGGCATGAGCCGTCCTGGCGGGATGTCCCCGGCGGGCGCCATGGCGGCATGGGCGGCTCGG
 CCGGGGCGGCTGGCGTGGCGGGCATGGGCGCCTTGTAGTCCCAGCCTGAGCCCGCTCGGGGGCAGGC
 GGCCGGGGCCATGGGCGGCTGGCCCCCTACGCCAACATGAACTCCATGAGCCCCATGTACGGGCAGGGC
 GGCTGAGCCGCGCCCGACCCCAAGACCTACAGGCGCAGCTACACGCACGCAAAGCCGCCCTACTCGT
 ACATCTCGCTCATACCATGGCCATCCAGCAGAGCCCCAACAAAGATGCTGACGCTGAGCGAGATCTACCA
 GTGGATCATGGACCTTCCCCCTTCTACGGCAGAACAGCAGCGCTGGCAGAACTCCATCCGCCACTCG
 CTCTCCTCAACGACTGTTTCTGAAGGTGCCCGCTCGCCCACAAGCCCGGAAGGGCTCCTTCTGGA
 CCCTGCACCTGACTCGGGCAACATGTTTCGAGAACGGCTGCTACCTGCGCCGCCAGAAGCGCTTCAAGT
 CGAGAAGCAGCTGGCGTGAAGGAGGCCGAGGCGCCGCGCAGCGGCAAGAAGCGGGCCCGGGGGCC
 CAGGCCTCACAGGCTCAACTCGGGGAGGCCGCGGGCCGCGCTCCGAGACTCCGGCGGGCACCGAGTTCG
 CTCCTCGAGCGCTCCCGTGGCAGGAGCACAAGCGAGGGGGCTGGGAGAGCTGAAGGGGACCGCCGGC
 TGCGGCGCTGAGCCCCCAGAGCCGGCGCCCTCTCCGGGCGAGCAGCAGCGCCGCGGCCACCTGCTG
 GGCCCGCCCCACCACCGGGCTGCCGCTGAGGCCACCTGAAGCCGGAACACCACTACGCCTTCAACC
 ACCCGTTTCCATCAACAACCTCATGTCTCGGAGCAGCAGCACCACACAGCCACCACCACCAGCC
 CCACAAAATGGACCTCAAGGCCTACGAACAGGTGATGCACTACCCCGGCTACGGTTCCTCCCATGCCTGGC
 AGCTTGCCATGGGCCCGGTACGAACAAAACGGGCTGGACGCTCGCCCTGGCCGAGATACCTCT
 ACTACCAGGGGTGACTCCCGCCATTATGAACTCCTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC204066 representing NM_021784
 Red=Cloning site Green=Tags(s)

MLGAVKMEGHEPSDWSSYYAEPEGYSSVSNMNAAGLMNGMNTYMSMSAAAMGSGSGNMSAGSMNMSYVVG
 AGMSPSLAGMSPGAGAMAGMGSAGAAGVAGMGPPLSPSLSPGGQAAGAMGGLAPYANMNSMSPMYGQA
 GLSRARDPKTYRRSYTHAKPPYSYISLITMAIQSPNKMLTLEIYQWIMDLFPFYRQNRQWQNSIRHS
 LSFNDCFLKVPSPDKPGKGSFWTLHPDSGNMFENGCYLRRQKRFKCEKQLALKEAAGAAGSGKAAAGA
 QASQAQLGEAAGPASETAPGTESPHSSASPCQEHKRGGLGELKGTAAAALSPPEPAPSPGQQQAAHLL
 GPPHPGLPPEAHLKPEHHYAFNHPFSINLMSSEQQHSHSHHHQPHKMDLKAYEQVMHYPGYSPMPG
 SLAMGPVTNKTGLDASPLAADTSYYQGVSRPIMNSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg2722_c07.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

ACCN: NM_021784

ORF Size: 1371 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](#)

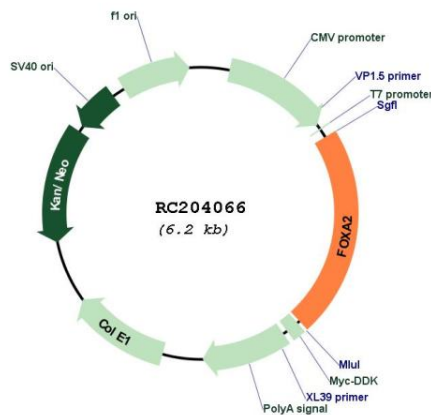
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_021784.2](#)
RefSeq Size: 2242 bp
RefSeq ORF: 1392 bp
Locus ID: 3170
UniProt ID: [Q9Y261](#)
Cytogenetics: 20p11.21
Protein Families: Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transcription Factors
Protein Pathways: Maturity onset diabetes of the young
MW: 48.1 kDa
Gene Summary: This gene encodes a member of the forkhead class of DNA-binding proteins. These hepatocyte nuclear factors are transcriptional activators for liver-specific genes such as albumin and transthyretin, and they also interact with chromatin. Similar family members in mice have roles in the regulation of metabolism and in the differentiation of the pancreas and liver. This gene has been linked to sporadic cases of maturity-onset diabetes of the young. Transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Oct 2008]

Product images:



Circular map for RC204066