

## Product datasheet for **SC327867**

### FOXA2 (NM\_021784) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** FOXA2 (NM\_021784) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** FOXA2  
**Synonyms:** HNF-3-beta; HNF3B; TCF3B  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC (PS100020)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_021784 edited  
 ATGCACTCGGCTTCCAGTATGCTGGGAGCGGTGAAGATGGAAGGGCAGGACCGTCCGAC  
 TGGAGCAGCTACTATGCAGAGCCCGAGGGCTACTCCTCCGTGAGCAACATGAACGCCGGC  
 CTGGGGATGAACGGCATGAACACGTACATGAGCATGTCGGCGGCCGCCATGGGCAGCGGC  
 TCGGGCAACATGAGCGCGGGCTCCATGAACATGTCGTCGTACGTGGGCGCTGGCATGAGC  
 CCGTCCCTGGCGGGATGTCCCCGGCGCGGGGCCATGGCGGGCATGGGCGGCTCGGCC  
 GGGCGGCGCGGCTGGCGGGCATGGGGCCCACTTGAAGTCCCAGCCTGAGCCCGCTCGGG  
 GGGCAGGCGGCCGGGCCATGGGCGGCTGGCCCCCTACGCCAACATGAACTCCATGAGC  
 CCCATGTACGGGCAGGCGGGCTGAGCCGCGCCCGGACCCCAAGACCTACAGGCGCAGC  
 TACACGCACGCAAAGCCGCCCTACTCGTACATCTCGTCTATCACCATGGCCATCCAGCAG  
 AGCCCCAACAAAGATGCTGACGCTGAGCGAGATCTACCAGTGGATCATGGACCTTCCCC  
 TTCTACCGGCAGAACAGCAGCGCTGGCAGAACTCCATCCGCCACTCGCTCTCCTCAAC  
 GACTGTTTCTGAAGGTGCCCGCTCGCCCGACAAGCCCGCAAGGGCTCCTTCTGGACC  
 CTGCACCTGACTCGGGCAACATGTTTCGAGAACGGCTGTACTCGCGCCGCGAGAAGCGC  
 TTCAAGTGCAGAGAAGCAGCTGGCGCTGAAGGAGGCCGAGGCGCCGCGGCGAGCGCAAG  
 AAGGCGGCGCGGAGGCCAGGCTCACAGGCTCAACTCGGGGAGGCGCGCGGGCCGGCC  
 TCCGAGACTCCGGCGGGCACCAGTCCGCTCACTCGAGCGCTCCCGTGCCAGGAGCAC  
 AAGCGAGGGGGCTGGGAGAGCTGAAGGGGACGCCGCTGCGGCGCTGAGCCCCCAGAG  
 CCGGCGCCCTCTCCGGGCGAGCAGCAGCAGGCGCGGCCACCTGCTGGGCCCCCCAC  
 CACCCGGGCTGCGGCTGAGGCCACCTGAAGCCGGAACACCACTACGCCTTCAACCAC  
 CCGTTCTCCATCAACAACCTCATGTCCTCGGAGCAGCAGCACCACCACAGCCACCACCAC  
 CACCAACCCACAAAATGGACCTCAAGGCTACGAACAGGTGATGCACTACCCCGGCTAC  
 GGTTCCCCATGCCTGGCAGCTTGGCCATGGGCCCGGTACGAACAAAACGGGCTGGAC  
 GCCTCGCCCTGGCCGAGATACCTCCTACTACCAGGGGTGTAATCCCGGCCATTATG  
 AACTCCTTTAA

**Restriction Sites:** Please inquire



[View online »](#)

|                               |  |
|-------------------------------|--|
| <b>ACCN:</b>                  | NM_021784  |
| <b>Insert Size:</b>           | 2428 bp  |
| <b>OTI Disclaimer:</b>        | <p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p> |
| <b>OTI Annotation:</b>        | The ORF of this clone has been fully sequenced and found to be a perfect match to NM_021784.4.   |
| <b>Components:</b>            | 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).   |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>  |
| <b>RefSeq:</b>                | <a href="#">NM_021784.4</a> , <a href="#">NP_068556.2</a>  |
| <b>RefSeq Size:</b>           | 2428 bp  |
| <b>RefSeq ORF:</b>            | 1392 bp  |
| <b>Locus ID:</b>              | 3170   |
| <b>UniProt ID:</b>            | <a href="#">Q9Y261</a>   |
| <b>Cytogenetics:</b>          | 20p11.21   |
| <b>Protein Families:</b>      | Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transcription Factors   |
| <b>Protein Pathways:</b>      | Maturity onset diabetes of the young   |

**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]

Transcript Variant: This variant (1) encodes the longer isoform (1).