

## Product datasheet for **SC306637**

### FOXA2 (NM\_153675) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FOXA2 (NM_153675) Human Untagged Clone
Tag:	Tag Free
Symbol:	FOXA2
Synonyms:	HNF-3-beta; HNF3B; TCF3B
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

>OriGene sequence for NM\_153675 edited  
 GTGGCTGTAAATTTTAAACTGCCATGCACTCGGCTTCCAGTATGCTGGGAGCGGTGAAG  
 ATGGAAGGGCAGCAGCCGTCGACTGGAGCAGCTACTATGCAGAGCCCGAGGGCTACTCC  
 TCCGTGAGCAACATGAACGCCGGCTGGGGATGAACGGCATGAACACGTACATGAGCATG  
 TCGGGCGCCGCATGGGCAGCGGCTCGGGCAACATGAGCGGGGCTCCATGAACATGTGC  
 TCGTACGTGGGCGCTGGCATGAGCCCGTCCCTGGCGGGATGTCCCCGGCGCGGGCGCC  
 ATGGCGGGCATGGGCGGCTCGGCCGGGGCGGCTGGCGTGGCGGGCATGGGCGCCACTTG  
 AGTCCCAGCCTGAGCCCGCTCGGGGGCAGGCGGCCGGGCCATGGGCGGCTGGCCCC  
 TACGCCAACATGAACTCCATGAGCCCCATGTACGGGCAGGCGGGCCTGAGCCGCGCCCGC  
 GACCCCAAGACCTACAGGCGCAGCTACACGCACGCAAAGCCGCCCTACTCGTACATCTCG  
 CTCATCACCATGGCCATCCAGCAGAGCCCCAACAAAGATGCTGACGCTGAGCGAGATCTAC  
 CAGTGGATCATGGACCTTCCCTTCTACCGCAGAACCAGCAGCGCTGGCAGAACTCC  
 ATCCGCCACTCGCTCTCCTTCAACGACTGTTTCTGAAGGTGCCCGCTCGCCCGACAAG  
 CCCGGCAAGGGCTCCTTCTGGACCCTGCACCCTGACTCGGGCAACATGTTGAGAACGGC  
 TGCTACCTGCGCCGCCAGAAGCGCTTCAAGTGCAGAGAAGCAGCTGGCGCTGAAGGAGGCC  
 GCAGGCGCCGCCGAGCGGCAAGAAGGCGGCCCGGGGCCAGGCCTCACAGGCTCAA  
 CTCGGGGAGGCCCGGGCCGGCTCCGAGACTCCGGCGGGCACCGAGTGCCTCACTCG  
 AGCGCCTCCCCGTGCCAGGAGCACAAGCGAGGGGGCTGGGAGAGCTGAAGGGGACGCCG  
 GCTGCGGCGCTGAGCCCCCAGAGCCGGCGCCCTCTCCGGGCAGCAGCAGCAGGCCCGCG  
 GCCACCTGTGGGCCCGCCCCACCACCCGGGCTGCCGCTGAGGCCACCTGAAGCCG  
 GAACACCACTACGCTTCAACCACCCGTTCTCCATCAACAACCTCATGTCCTCGGAGCAG  
 CAGCACCACCACAGCCACCACCACCAGCCCAAAAATGGACCTCAAGGCCTACGAA  
 CAGGTGATGCACTACCCCGGCTACGGTTCCTCCATGCTGCGAGCTTGGCCATGGGCGG  
 GTCACGAACAAAACGGGCTGGACGCCTCGCCCTGGCCGAGATACCTCCTACTACCAG  
 GGGGTGTACTCCCGGCCATTATGAACTCCTTAAAGAAGACGACGGCTTCAAGCCCGGC  
 TAACTCTGGCACCCCGGATCGAGGATAAGTGAGAGAGCAAGTGGGGTTCGAGACTTTGGG  
 GAGACGGTGTTCAGAGACGCAAGGGAGAAGAAATCCATAACACCCCCACCCCAACACC  
 CCAAGACAGCAGTCTTCTTACCCGCTGCAGCTGTTCCGTCCCAACAGAGGGCCACAC  
 AGATACCCACGTTCTATATAAGGAGGAAAACGGGAAAGAATATAAAGTAAAAAAAAGC  
 CTCGGTTTCCACTACTGTGTAGACTCCTGCTTCTTCAAGCACCTGCAGATTCTGATTTT  
 TTTGTTGTTGTTTCTCCTCCATTGCTGTTGTTGCAGGGAAGTCTTACTTAAAAAAA  
 AAAAAACTTTTGTGAGTACTCGGTGTAACCATGTAGTTTTAACAGAACCAGAGGGTT  
 GACTATTGTTTAAAAACAGAAAAAAATAATGTAAGGGTCTGTTGTAATGACCAAGA  
 AAAAAAAAAAAAAAAAAA

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_153675 unedited  
 NGTTAGCTTTTGTAAATACGACTTACTATTAGGGCGGCCGGAATTCGCACNNGGTGGCTG  
 TTAATTTTAAACTGCCATGCACTCGGCTTCCAGTATGCTGGGAGCGGTGAAGATGGAAG  
 GGCACGAGCCGTCGACTGGAGCAGCTACTATGCAGAGCCCGAGGGCTACTCCTCCGTGA  
 GCAACATGAACGCCGGCCTGGGGATGAACGGCATGAACACGTACATGAGCATGTCGGCGG  
 CCGCCATGGGCAGCGGCTCGGGCAACATGAGCGCGGGCTCCATGAACATGTCGTCGTACG  
 TGGGCGCTGGCATGAGCCCGTCCCTGGCGGGATGTCCCCGGCGCGGGCCATGGCGG  
 GCATGGGCGGCTCGGCCGGGGCGGCTGGCGTGGCGGGCATGGGGCCGACTTGAGTCCCA  
 GCCTGAGCCCGCTCGGGGGCAGGCGGCCGGGCCATGGGCGGCTGGCCCCCTACGCCA  
 ACATGAACTCCATGAGCCCCATGTACGGGCAGGCGGGCCTGAGCCGCGCCCGGACCCCA  
 AGACCTACAGGCGCAGCTACACGCACGCAAAGCCGCCCTACTCGTACATCTCGCTCATCA  
 CCATGGCCATCCAGCAGAGCCCCAACAAAGATGCTGACGCTGAGCGAGATCTACCAGTGA  
 TCATGGACCTTCTCCCTTCTACCGCAGAACCAGCAGCGCTGGCAGAACTCCATCCGCC  
 ACTCGCTCTCCTTCAACGACTGTTTCTGAAGGTGCCCGCTCGCCCGACAAGCCCGGCA  
 AGGGCTCCTTCTGGACCCTGCACCCTGACTCGGCAACATGTTGAGAACGGCTGTACTCT  
 GCGCCGCCAGAAGCGCTTCAAGTGCAGAGAAGCAGCTGGCGCTGAAAGGAGCCCGCAGCGC  
 CNCCGCAGCGGCAAGAAGCGGCCCGCCGGG

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' genomic read for NM_153675 unedited CATTGGNNGATGGCACTTCCAGNCCAGNAAAGCACTGGGGNAGGGTCACAGGGATGCC ACCCGGGATCTGTTTCAGGAAAAGCTATGACCGCGGCCGAATCTAGAGTCGAGTTTTTTT TTTTTTTTTTCTGGTCATTTACAACAGACCCTTACATTATTTTTTTTCTGTTTTTAA ACAATAGTACAACCCTCTGGTTCGTGTTAAACTACATGGTTTTACACCGAGTCACTCACA AAAGTTTTTTTTTTTTTAAAGTAAGACTTCCCTGCAACAACAGCAATGGAGGAGAACAA CAACAACAAAAAATCAGAATCTGCAGGTGCTTGAAGAAGCAGGAGTCTACACAGTAGTG GAAACCGGAGGCTTTTTTTAACTTTATATTCTTTCCCGTTTTCTCCTTATATAGAACG TGGGGTATCTGTGTGGCCCTCTGTTTGGGACGGAACAGCTGCAGCGGGTGAAGGAAGACT GCTGTCTTGGGGGTGTTGGGGTGGGGTGTATGGATTCTTCTCCCTTGCCTCTCTGCA CACCGTCTCCCCAAAGTCTCGACCCCACTTGCTCTCACTTATCCTCGATCCGGGGTG CCAGAGTTAGCCGGCCCTGAAGCCGTCGTCTTCTTAAGAGAGTTCATAATGGCCGGGAG TACACCCTGGTAGTAGGAGGTATCTGCGGCCAGGGCGAGGCGTCCAGGCCGTTTTGT TCGTGACCGGGCCATGGCCAAACCTGGCAGCATGGGGGAACCGTACCGGGGTAATGC ATCACCTGTTCTGAAGCCTTGGAGGTCATTTTTTTGGCCCTGTGGTGGTGCCTGTGG TGGGTCTGCTGCTCCAGGACATGAAGTTTTTAAGGGAAAACG
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_153675
<b>Insert Size:</b>	1900 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<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>	<u><a href="#">NM_153675.1</a></u> , <u><a href="#">NP_710141.1</a></u>
<b>RefSeq Size:</b>	2230 bp
<b>RefSeq ORF:</b>	1374 bp
<b>Locus ID:</b>	3170
<b>UniProt ID:</b>	<u><a href="#">Q9Y261</a></u>
<b>Cytogenetics:</b>	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

**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 (2) has a different splice pattern at the 5' end compared to transcript variant 1, resulting in translation initiation from a downstream AUG, and a shorter isoform (2) missing 6 aa from the N-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript matching the reference genomic sequence was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.