

Product datasheet for **SC122913**

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)



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Fully Sequenced ORF:

>OriGene sequence for NM_021784 edited
 GTGGCTGTAAATTTTAAACTGCCATGCACTCGGCTTCCAGTATGCTGGGAGCGGTGAAG
 ATGGAAGGGCAGCAGCCGTCGACTGGAGCAGCTACTATGCAGAGCCCGAGGGCTACTCC
 TCCGTGAGCAACATGAACGCCGGCTGGGGATGAACGGCATGAACACGTACATGAGCATG
 TCGGGCGCCCATGGGCAGCGGCTCGGGCAACATGAGCGGGCTCCATGAACATGTCG
 TCGTACGTGGGCGCTGGCATGAGCCCGTCCCTGGCGGGATGTCCCCGGCGGGCGCC
 ATGGCGGGCATGGGCGGCTCGGCCGGGGCGCTGGCGTGGCGGGCATGGGCGCCACTTG
 AGTCCCAGCCTGAGCCCGCTCGGGGGCAGGCGGCCGGGCCATGGGCGGCTGGCCCC
 TACGCCAACATGAACTCCATGAGCCCCATGTACGGGCAGCGGGCTGAGCCGCGCCCGC
 GACCCCAAGACCTACAGGCGCAGCTACACGCACGCAAAGCCGCCCTACTCGTACATCTCG
 CTCATCACCATGGCCATCCAGCAGAGCCCCAACAAAGATGCTGACGCTGAGCGAGATCTAC
 CAGTGGATCATGGACCTTCCCTTCTACCGCAGAACCAGCAGCGCTGGCAGAACTCC
 ATCCGCCACTCGCTCTCCTTCAACGACTGTTTCTGAAGGTGCCCGCTCGCCCGACAAG
 CCCGGCAAGGGCTCCTTCTGGACCCTGCACCCTGACTCGGGCAACATGTTGAGAACGGC
 TGCTACCTGCGCCGCCAGAAGCGCTTCAAGTGCAGAGAAGCAGCTGGCGCTGAAGGAGGCC
 GCAGGCGCCGCCGAGCGGCAAGAAGGCGGCCCGGGGCCAGGCCTCACAGGCTCAA
 CTCGGGGAGGCCCGGGCGGCCCTCCGAGACTCCGGCGGGCACCGAGTGCCTCACTCG
 AGCGCCTCCCCGTGCCAGGAGCACAAGCGAGGGGGCTGGGAGAGCTGAAGGGGACGCCG
 GCTGCGGCGCTGAGCCCCCAGAGCCGGCGCCCTCTCCGGGCAGCAGCAGCAGGCCGCG
 GCCACCTGCTGGGCCCGCCCCACCACCCGGGCTGCCGCTGAGGCCACCTGAAGCCG
 GAACACCACTACGCTTCAACCACCCGTTCTCCATCAACAACCTCATGTCCTCGGAGCAG
 CAGCACCACCAGCCACCACCACCAGCCCAAAAATGGACCTCAAGGCCTACGAA
 CAGGTGATGCACTACCCCGGCTACGGTTCCTCCATGCTGCGAGCTTGGCCATGGGCCCG
 GTCACGAACAAAACGGGCTGGACGCTCGCCCTGGCCGAGATACCTCCTACTACAG
 GGGGTGTACTCCCGGCCATTATGAACTCCTTAAAGAAGACGACGGCTTCAAGCCCGGC
 TAACTCTGGCACCCCGATCGAGGATAAGTGAGAGAGCAAGTGGGGTTCGAGACTTTGGG
 GAGACGGTGTTCAGAGACGCAAGGGAGAAGAAATCCATAACACCCCCACCCCAACACC
 CCAAGACAGCAGTCTTCTTACCCGCTGCAGCTGTTCCGTCCCAACAGAGGGCCACAC
 AGATACCCACGTTCTATATAAGGAGGAAAACGGGAAAGAATATAAAGTAAAAAAAAGC
 CTCGGTTTCCACTACTGTGTAGACTCCTGCTTCTTCAAGCACCTGCAGATTCTGATTTT
 TTTGTTGTTGTTTCTCCTCCATTGCTGTTGTTGCAGGGAAGTCTTACTTAAAAAAA
 AAAAAAATTTTGTGAGTACTCGGTGTAACCATGTAGTTTTAACAGAACCAGAGGGTT
 GACTATTGTTTAAAAACAGAAAAAATAATGTAAGGGTCTGTTGTAATGACCAAGA
 AAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_021784 unedited
 GGGAACTTGGTNTTGTATCCGACTTTCTGATAGGGCGCCGCAATTCGCACGGGGT
 GCTGTTTTATTTTAAACTGCCATGCACTCGGCTTCCAGTATGCTGGGAGCGGTGAAGATG
 GAAGGGCACGAGCCGTCGACTGGAGCAGCTACTATGCAGAGCCCGAGGGCTACTCCTCC
 GTGAGCAACATGAACGCCGGCTGGGGATGAACGGCATGAACACGTACATGAGCATGTCG
 GCGGCCGCATGGGCAGCGGCTCGGGCAACATGAGCGGGCTCCATGAACATGTCGTCG
 TACGTGGGCGCTGGCATGAGCCCGTCCCTGGCGGGATGTCCCCGGCGGGCGCCATG
 GCGGGCATGGGCGGCTCGGCCGGGGCGGCTGGCGTGGCGGGCATGGGCGCCACTTGAGT
 CCCAGCCTGAGCCCGCTCGGGGGCAGGCGGCCGGGGCCATGGGCGCCCTGGCCCCAC
 GCCAACATGAACTCCATGAGCCCATGTACGGGCAGGCGGGCCTGAGCCGCGCCCGCAGC
 CCCAAGACCTACAGGCGCAGCTACACGCACGCAAAGCCGCCCTACTCGTACATCTCGCTC
 ATCACCATGGCCATCCAGCAGAGCCCCAACAAAGATGCTGACGCTGAGCGAGATCTACCAG
 TGGATCATGGACCTTCCCTTCTACCGCAGAACCAGCAGCGCTGGCAGAACTCCATC
 CGCCACTCGCTCTCCTTCAACGACTGTTTCTGAAGGTGCCCGCTCGCCCGACAAGCC
 GGCAAGGGCTCCTTCTGGACCCTGCACCCTNGACTCGGCACATGTTGAGAACGGCTGCT
 ACCTGCGCCGCCAGAAGCGCTTCAAGTGCAGAGAAGCAGCTGGCGCTGAAGGAGGCCGCAN
 GCGCCCGCCGACGCGN

Restriction Sites:	Please inquire
ACCN:	NM_021784
Insert Size:	1946 bp
OTI Disclaimer:	<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 custsupport@origene.com 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. More info</p>
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_021784.3 , NP_068556.1
RefSeq Size:	2428 bp
RefSeq ORF:	1374 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

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).