

## Product datasheet for **SC303486**

### FOXE1 (NM\_004473) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FOXE1 (NM_004473) Human Untagged Clone
Tag:	Tag Free
Symbol:	FOXE1
Synonyms:	FKHL15; FOXE2; HFKH4; HFKL5; NMTC4; TITF2; TTF-2; TTF2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_004473, the custom clone sequence may differ by one or more nucleotides

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ATGACTGCCGAGAGCGGGCCGCCGCCGCGCAGCCGGAGGTGCTGGCTACCGTGAAGGAAGAGCGCGCG  
AGACGGCAGCAGGGGCCGGGTCCAGGGGAGGCCACGGGCCGCGGGCGGGCGGGCGGCCGCAAGCG  
CCCCCTGCAGCGCGGGAAGCCGCCCTACAGCTACATCGCGCTCATCGCCATGGCCATCGCGCACGCGCC  
GAGCGCCGCTCAGCTGGGCGGCATCTACAAGTTCATCACCGAGCGCTTCCCCTTACC GCGACAACC  
CCAAAAAGTGGCAGAACAGCATCCGCCACAACCTCACACTCAACGACTGTTCTCAAGATCCCGCGGA  
GGCCGGCCGCCGGTAAGGGCAACTACTGGGCGCTTGACCCCAACGCGGAGGACATGTTGAGAGCGGC  
AGCTTCTGCGCCGCGCAAGCGCTTAAAGCGCTCGGACCTCTCCACCTACCCGGCTTACATGCACGACG  
CGGCGGCTGCGCAGCCGCCGCCGCCGCCGCCGCCGCCGCCATCTCCAGGCGCGGTGCCCGC  
CGCGCGCCCCCTACCCGGGCGCGTCTATGCAGGCTACGCGCCGCCGTCGCTGGCCGCCGCCCTCCA  
GTCTACTACCCCGCGCGCTCGCCCGGCCCTTGCCGCTCTTGGCCTGGTTCTGAGCGGCCGCTCAGCC  
CAGAGCTGGGGCCCGACCGTCGGGGCCCGCGGCTCTTGGCCTTTGCCCTCCGCCGGCGCCCCGCTAC  
CACCACCGGTACCAGCCCGCAGGCTGCACCGGGGCCCGGCCGCAACCCCTCCGCCTATGCGGCTGCC  
TACGCGGGCCCGACGGCGGTACCCGCAGGGCGCCGCGCAGTGCATCTTTGCCGCTGCTGGCCGCTGG  
CGGGACCCGCTTCGCCCCAGCGGGCGGCAGCAGTGGCGGCGTGGAGACCAGGTGGACTTCTACGGGCG  
CACGTCGCCCCGGCCAGTTCGGAGCGCTGGGAGCCTGCTACAACCTGGCGGGCAGCTCGGAGGGCCAGT  
GCAGGCGCCTACCATGCTCGCCATGCTGCCGCTTATCCCGGTGGGATAGATCGGTTGCTGCCCATGT  
GA
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Restriction Sites:	Please inquire
ACCN:	NM_004473



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<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>	<p>This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.</p>
<b>Components:</b>	<p>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).</p>
<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>	<p><a href="#">NM_004473.3</a>, <a href="#">NP_004464.2</a></p>
<b>RefSeq Size:</b>	<p>3473 bp</p>
<b>RefSeq ORF:</b>	<p>1122 bp</p>
<b>Locus ID:</b>	<p>2304</p>
<b>UniProt ID:</b>	<p><a href="#">O00358</a></p>
<b>Cytogenetics:</b>	<p>9q22.33</p>
<b>Protein Families:</b>	<p>Druggable Genome, Transcription Factors</p>
<b>Gene Summary:</b>	<p>This intronless gene encodes a protein that belongs to the forkhead family of transcription factors. Members of this family contain a conserved 100-amino acid DNA-binding 'forkhead' domain. The encoded protein functions as a thyroid transcription factor that plays a role in thyroid morphogenesis. Mutations in this gene are associated with the Bamforth-Lazarus syndrome, and with susceptibility to nonmedullary thyroid cancer-4. [provided by RefSeq, Nov 2016]</p>