

Product datasheet for **SC116871**

FOXG1 (NM_005249) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FOXG1 (NM_005249) Human Untagged Clone
Tag:	Tag Free
Symbol:	FOXG1
Synonyms:	BF1; BF2; FHKL3; FKH2; FKHL1; FKHL2; FKHL3; FKHL4; FOXG1A; FOXG1B; FOXG1C; HBF-1; HBF-2; HBF-3; HBF-G2; HBF2; HFK1; HFK2; HFK3; KHL2; QIN
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_005249, the custom clone sequence may differ by one or more nucleotides

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ATGCTGGACATGGGAGATAGGAAAGAGGTGAAAATGATCCCCAAGTCCTCGTTCAGCATCAACAGCCTGG
TGCCCCGAGGCGGTCCAGAACGACAACCACCACGCGAGCCAGGCCACCACAACAGCCACCACCCCCAGCA
CCACCACCACCACCACCATCACCACCACCCGCGCCGCCCGCCCGCAACCAGCCGCGCCGCCGCGCAG
CAGCAGCAGCCGCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCC
ACGACGACAAGGGCCCCAGCAGCTGCTGCTCCCGCCGCCGCCACCAGCCACCACCAGCCGCCGCCGCCCTGGA
CGGGGCTAAAGCGGACGGGCTGGGCGGCAAGGGCGAGCCGGGCGGGCGGGGGAGGAGTGGCGCCCGTC
GGGCGGACGAGAAGGAGAAGGGCGCCGCCGCCGGGGGGAGGAGAAGAAGGGGGCGGGCGAGGGCGGCA
AGGACGGGAGGGGGCAAGGAGGGCGAGAAGAAGAACGGCAAGTACGAGAAGCCGCCGTTACGTACAA
CGCGCTCATCATGATGGCCATCCGGCAGAGCCCCGAGAAGCGGCTCACGCTCAACGGCATCTACGAGTTC
ATCATGAAGAACTCCCTTACTACCGGAGAACAAGCAGGGCTGGCAGAACTCCATCCGCCACAATCTGT
CCCTCAACAAGTCTTCTGTAAGGTGCCCGCCACTACGACGACCCGGGCAAGGGCAACTACTGGATGCT
GGACCCGTCGAGCGACGAGTGTTCATCGGCGGCCACCAGGGCAAGCTGCGGGCGCGCTCCACCACCTCG
CGGGCCAAGCTGGCCTTCAAGCGCGGTGCGCGCCTCACCTCCACCAGCCTCACCTTCATGGACCGCGCCG
GCTCCCTACTGGCCATGTGCGCCTTCTGTCCCTGCACCACCCCGCGCCAGCAGCACTTTGAGTTA
CAACGGCACCCAGTTCGGCCTACCCAGCCACCCCATGCCCTACAGCTCCGTGTTGACTCAGAAGTCCGCTG
GGCAACAACCACTCCTTCTCCACCGCCAACGGCCTGAGCGTGGACCGGCTGGTCAACGGGGAGATCCCGT
ACGCCACGCCACCTCACGGCCGCCGCGCTAGCCGCTCGGTGCCCTGCGGCCGTGTCGGTGCCTGCTC
TGGGCACTACTCCCTCAACCCCTGCTCCGTCAACTGCTCGCGGGCCAGACCAGTTACTTTTTCCCCAC
GTCCCGCACCCGTCATGACTTCGACAGCAGCAGCAGTCCATGAGCGCCAGGGCCGCGTCCCTCCACGT
CGCCGACGGCCCCCTCGACCCTGCCCTGTGAGTCTTTAAGACCCTCTTTGCAAGTTTTAGCAGGGACT
GTCTGGGGACTGTCTGATTATTCACACATCAAATCAGGGGTCTTCTTCAACCCCTTAAATACATTAA
    
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_005249 unedited
TCACCATTTGTATACGACTCACTATAGGCGGCCGNAATTCGCACGAGGTACAGTTGGG
AGCGAGGGAGCTTACCCCGGGGCGGTGTTGTTTCTTTTTCTTTCTTTCTTTTTCT
TTTTCTTTTTTTTTTTTTTCTAATTCTGAGGGGTGGTTGCTGCTTTTGTACATGACT
TGCCAGCGCCGAGCCTGCGGTCCAAGTGCCTGCTGCCGGAGCGCTCAGTGCCGCGCT
GCCGCCGCGCCCGCGCCCGTTCGGCACCCACCGGTGCGCGCCGCCCGCGCGCGG
CTGTCCCCTCCCGCCGCCCGCGCTTTCCCGCCGACGACTGGGTGATGCTGGACAT
GGGAGATAGGAAAGAGGTGAAAATGATCCCCAAGTCTCGTTTACGATCAACAGCCTGGT
GCCCGAGGCGGTCCAGAACGACAACCACCACGCGAGCCACGGCCACCACAACAGCCACCA
CCCCAGCACCACCACCACCACCATTACCACCACCCGCCCGCCCGCCCGCCCGCA
ACCGCCGCGCCCGCGCAGCAGCAGCAGCGCCGCCGCCGCCGCCCGCCCGCACCGCAGCC
CCCCAGACGCGGGCGCCCGCGCCGACGACGACAAGGGCCCCAGCAGCTGCTGCT
CCCGCCGCGGNACCGNACCCAGCGCCGCGCCCTGGACGGGGCTAAAGNCGACGGGCT
GGGCGGCAAGGGCGAGCCGGGCGGCGGGCGGGGGAGCTGGCGCCCGTTCGGCCGAGC
AGAAGGAAAGGGCGCCGCCCGGGGGAGGAAAAAGGGGGCGGGCNAGGCGNNAAGA
CGGGGAAGGGGCAAGGAGGCCAAAAAAACCGCAGTTCAAAAACCCCGNTCAATTCA
ACCGCTAATATGATGGCCATCGGCAACCCCAA
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_005249 unedited NCCGTTGCGGGGATAGTTTGTGTGTGGATGGAAACGTTTTGTAGGGACGTACCGGGCA TATGACCACGAGGTCACAGTCAGGAAATTTAAGACAACATTAACAATGACTCAAATTTA TGCGGCATTTGCGCAACACAGGTTACATATTTGCAAGGTTTACCTATAAGTACAATAGGT ATTAACATTTCACTACATTTAGAAAAAATAAAAGTGACCTGTTAGTGACCACATACATCA AAATATACACAACACAACTGAAGGCAATCGTTAATTTGTCCCCTTCTGATTCAATTGA ATGGGCAGTGTTGCCAACTGAAACAACCTTCCTTTTTGTTTGTAACTTAGTATAC CAAGTGCAATTTCTAGAACCCAATCTTTGGTCTAAAAGTAAACAAAAGAAAAAAAACAG TTCTTTAAAGAAAAGGACAAAACAATAAATGGCCAAAATAATTTCTTGGGCACCTTTACT ACGAATGCTTTTTAAATACAAATTACAGTTAACATTTTAAAAATCTCCCATAATTTAG GTTGTTCTCAAGGCTGCGTCCACCATATAGTTCCATGATAACTTATAACTGCACACA TGGAAATCTGGCGGCTCTTAGAGATAGACTTGTGAGGTTTGAATGAAATGGCAAAGCAGT CACTATTTAGATACACTTCTACTATAATTTGACTTCAAACCTTATATTCTACAATGTA TTCTCCCACATTGCACCTCGTGACACTTCACACCTTGTAGAATAATAACAACCCCTA GAGACTGGACAAACGTACAGGAATGGGAAGGGGGGCGCTAAATAAAAAATAACCTGGACT TATTTTTTAATTATCATTTAACATGCAATGTGTGTAACGTTTACTTTACAGCTTGT CCCAGGTATGTTAATGTATTAAGGGTTGAAAN
Restriction Sites:	NotI-NotI
ACCN:	NM_005249
Insert Size:	2940 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
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_005249.3 , NP_005240.3

RefSeq Size: 2600 bp

RefSeq ORF: 1470 bp

Locus ID: 2290

UniProt ID: [P55316](#)

Cytogenetics: 14q12

Domains: FH

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: This locus encodes a member of the fork-head transcription factor family. The encoded protein, which functions as a transcriptional repressor, is highly expressed in neural tissues during brain development. Mutations at this locus have been associated with Rett syndrome and a diverse spectrum of neurodevelopmental disorders defined as part of the FOXG1 syndrome. This gene is dysregulated in many types of cancer and is the target of multiple microRNAs that regulate the proliferation of tumor cells. [provided by RefSeq, Jul 2020]