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Product datasheet for RC218102

FOXI1 (NM_012188) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FOXI1 (NM_012188) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FOXI1
Synonyms:	FKH10; FKHL10; FREAC-6; FREAC6; HFH-3; HFH3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC218102 representing NM_012188
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCTCCTTCGACCTGCCGGCGCCCTCCCCACCTCGCTGCAGCCCCCAGTTCCCCAGCATCGGCCAGG
AGCCCCCCGAGATGAACCTCTACTATGAGAACTTCTTCCACCCACAGGGCGTGCCCAGCCCTCAGCGGCC
CTCCTTCGAGGGGGGCGGCGAGTATGGGGCCACCCCCAACCCCTACCTCTGGTTCAACGGGCCCACCATG
ACCCCGCCACCCTACCTGCCCGGCCCCAACGCCAGCCCCTTCCTGCCCCAGGCCTATGGAGTGCAGAGAC
CGCTGCTGCCCAGCGTGTCGGGGCTTGGGGGGAGCGACCTGGGCTGGCTGCCCATCCCCTCGCAGGAGGA
GCTGATGAAGCTGGTGCGGCCACCCTATTCCTACTCGGCTCTCATCGCCATGGCCATCCACGGGGCACCC
GACAAGCGCCTCACTCTCAGCCAGATCTACCAGTACGTGGCCGACAACTTCCCCTTCTACAACAAGAGCA
AGGCCGGCTGGCAGAACTCCATCCGCCACAACCTGTCGCTCAACGACTGCTTCAAGAAGGTGCCCCGCGA
CGAGGACGACCCGGGCAAAGGGAATTACTGGACCCTGGACCCCAACTGTGAGAAAATGTTCGACAATGGA
AATTTCCGCAGGAAAAGGAAGAGAAAATCAGATGTTTCCTCTAGCACAGCCTCCTTGGCCTTAGAGAAGA
CAGAGAGCAGTCTCCCGGTGGACAGCCCCAAGACCACGGAGCCTCAGGACATCTTGGATGGAGCCTCACC
AGGGGGCACCACCAGCTCCCCAGAGAAGCGGCCCTCCCCTCCCCCATCAGGCGCCCCTTGCCTTAACAGC
TTCCTTTCCTCTATGACAGCCTATGTGAGCGGGGGGAGCCCCACGAGCCACCCCTTGGTCACACCAGGAC
TGAGCCCTGAGCCCAGTGACAAGACGGGGCAGAACTCACTGACCTTCAACTCCTTCTCCCCGCTCACCAA
CCTCAGCAACCACAGCGGTGGGGGTGACTGGGCGAACCCCATGCCCACCAACATGCTCAGCTACGGAGGA
TCTGTGCTCAGCCAATTCAGCCCTCACTTCTACAACAGTGTCAACACCAGTGGTGTCCTCTACCCCAGGG
AGGGCACCGAGGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC218102 representing NM_012188
Red=Cloning site Green=Tags(s)

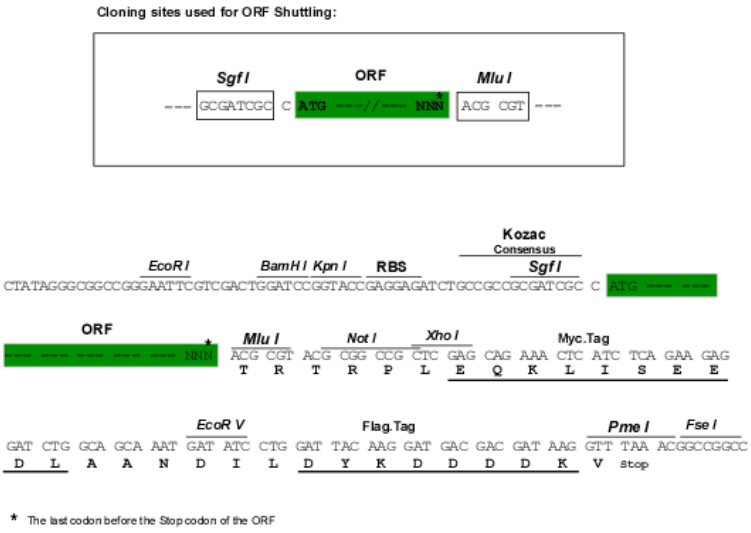
MSSFDLPAPSPPRCSPQFPSIGQEPPEMNLYYENFFHPQGVPSPQRPSFEGGGEYGATPNPYLWFNGPTM
TPPPYLPGPNASPFLPQAYGVQRPLLPSVSGLGGSDLGWLPIPSQEELMKLVRPPYSYSALIAMAIHGAP
DKRLTLSQIYQYVADNFPFYNKSKAGWQNSIRHNLSLNDCFKKVPRDEDDPGKGNYWTLDPNCEKMFDNG
NFRRKRKRKSDVSSSTASLALEKTESSLPVDSPKTTEPQDILDGASPGGTTSSPEKRPSPPPSGAPCLNS
FLSSMTAYVSGGSPTSHPLVTPGLSPEPSDKTGQNSLTFNSFSPLTNLSNHSGGGDWANPMPTNMLSYGG
SVLSQFSPHFYNSVNTSGVLYPREGTEV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6048_g03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012188

ORF Size: 1134 bp

OTI Disclaimer: 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

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:
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_012188.5

RefSeq Size: 2296 bp

RefSeq ORF: 1137 bp

Locus ID: 2299

UniProt ID: Q12951

Cytogenetics: 5q35.1

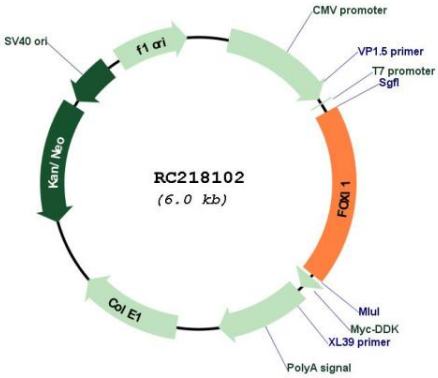
Domains: FH

Protein Families: Transcription Factors

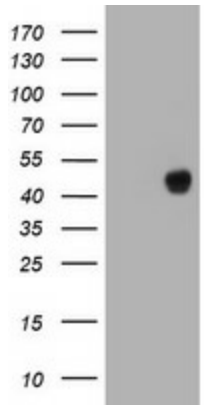
MW: 41 kDa

Gene Summary: This gene belongs to the forkhead family of transcription factors, which is characterized by a distinct forkhead domain. This gene may play an important role in the development of the cochlea and vestibulum, as well as in embryogenesis. The encoded protein has been found to be required for the transcription of four subunits of a proton pump found in the inner ear, the kidney, and the epididymis. Mutations in this gene have been associated with deafness, autosomal recessive 4. [provided by RefSeq, Jan 2017]

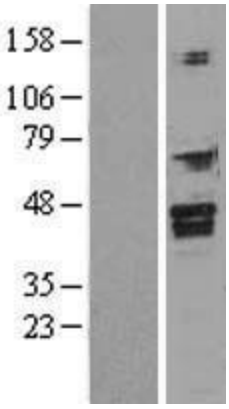
Product images:



Circular map for RC218102



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY FOXI1 (Cat# RC218102, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-FOXI1(Cat# [TA800146]). Positive lysates [LY402162] (100ug) and [LC402162] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY402162]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218102 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).