

Product datasheet for MR205758

Foxi1 (NM_023907) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Foxi1 (NM_023907) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Foxi1
Synonyms:	5830401E05Rik; Fkh10; FREAC6; HFH-3; Hfh3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205758 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCTCCTTCGACCTCCAGCGCCTTACCACCTCGGTGCAGTCCCCAGTTCCCCAGCATCGGCCAGG
AGCCCCGGAGATGAATCTTTACTATGAGAATTTCTCCACCCTCAGGGCATGCCAGTCTCAGCGCCC
AACCTCCTTCGAAGGTGGTGGCGAATACGGGACCACTCCCAACCCTACCTCTGGCTCAATGGGCCGGCC
ATGACCCACCACTACCTGCCTGGCACTAACGCCAGCCCTTCTACCCAGGCCTATGGCATGCAGA
GGCAGCTACTGCCAGCGACCTGGGCTGGCTGCCATCCCCTCTCAGGAAGAGCTCATGAAGCTGGTACG
CCCACCATATTCCTATTCAGCCCTCATTGCCATGGCAATCCACGGTGCGCCGACCAAGCGCTCACACTG
AGCCAGATCTACCACTAGTGGCCGACAACCTTTCCCTTTACAACAAGAGCAAGGCTGGCTGGCAGAACT
CCATCCGCCACAACCTGTCACTCAACGACTGCTTCAAGAAGGTGCCCGGAGATGAGGACGACCCAGGCAA
AGGGAATTACTGGACTCTGGACCCTAAGTGTGAGAAGATGTTTGACAACGGAAACTTTCCGAGGAAGAGA
AAGAGAAAATCAGATTCATCCTCCAGCACCAGCTCATTGGCTTCAGAGAAAACGGAGAACGGTCTCCTGG
CCAGCAGCCCCAAGCCCACAGAGCCTCAGGAGGTCTTAGACCCGCTCGCCAGACACTACCACAGCTC
CCCAGAGAAGCGGTCTCCCTGCCCTCGGGCACCCCGTGTCTCAACAACCTCCTCTCCACCATGACA
GCATATGTGAGTGGGACAAACCTATTAGCCGCTCCGTGGCCACACAGGACTGAGCTCAGAGCCTATTG
ACAAGATGGGGCAGAACTCACTGAATTTCAACTCCTACACCCCTTACCAACCTCAGTAGCCATGGGAA
TGGGGTGAATGGCCAACCCAGTAGCCACCAATGCTCTGGGCTATGGAGGCTCCGTCTTCAACCAAGTTC
AGTCCACATTTCTACAACAGCATTAACTAACGGTATCCTATTCGCCAGGGAAGGCACTGAAGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR205758 protein sequence
Red=Cloning site Green=Tags(s)

MSSFDLPAPSPPRCSPQFPSIGQEPEMNLYYENFFHPQGMPSQRPSTSFEGGGEYGTTPNPYLWLNPA
 MTPPPYLPGTNASPFLPQAYGMQRQLLPSDLGWLPIPSQEELMKLVRPPYSYSALIAMAHGAPDQRLTL
 SQIYQYVADNFFPFYNSKAGWQNSIRHNLNLNDCFKKVPREDDDPGKGNVWTLDPNCEKMFNDNGNFRKR
 KRKSDSSSTSSLASEKTENGLLASSPKPTEPQEVLDTASPDTTSSPEKRSSPAPSGTPCLNNFLSTMT
 AYVSGTNPISRSVATPGLSSEPIDKMGQNSLNFNSYTPLTNLSSHNGGEWANPVATNALGYGGSVFNQF
 SPHFYNSINTNGILFPREGTEV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_023907

ORF Size: 1119 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_023907.4](#)

RefSeq Size: 2354 bp

RefSeq ORF: 1119 bp

Locus ID: 14233

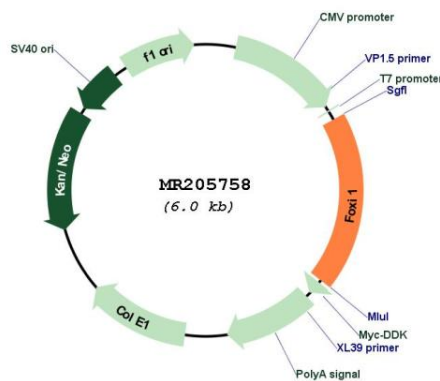
UniProt ID: [Q92215](#)

Cytogenetics: 11 19.65 cM

MW: 40.8 kDa

Gene Summary: Transcriptional activator required for the development of normal hearing, sense of balance and kidney function. Required for the expression of SLC26A4/PDS, JAG1 and COCH in a subset of epithelial cells and the development of the endolymphatic system in the inner ear. Also required for the expression of SLC4A1/AE1, SLC4A9/AE4, ATP6V1B1 and the differentiation of intercalated cells in the epithelium of distal renal tubules.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205758