

Product datasheet for **MR206700**

Foxj1 (NM_008240) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Foxj1 (NM_008240) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Foxj1
Synonyms:	FKHL-13; HFH-4; Hfh4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR206700 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGAGAGCTGGCTGCGCCTCTGCGGAGCGGGTCCCAGGAGGAAGCCGGGCCGGAGGGCGGCATGG
 AGGAGCCGGACGCCCTGGATGACAGCCTACCAGCCTGCAATGGCTGCAGGAATTCTCCATTCTCAACGC
 CAAGGCTCCCACTCTTCCCCAGGAGGCACAGACCCCCACGGCTACCACCAAGTGCCGGGCTTGGTGGCG
 CCCGGGTACCGCTGGCGGCAGACCCTGCCTGCCTTGGGCAGCCGCACACACCCGGCAAGCCACATCGT
 CGTGCACATCTCGAAGCGCGCCCCGGGGCTGCAGGCCCGCCCCCTGACGACGTGGACTATGCCACAA
 CCCACAGTGAAGCCACCCTACTCTATGCCACTCTCATCTGCATGGCCATGCAAGCCAGCAAGGCCACC
 AAGATCACTCTGTCGGCCATCTACAAGTGGATCACGGACAACCTTCTGCTACTTCCGCCATGCAGACCCCA
 CCTGGCAGAATTCATCCGCCACAACCTGTCCTTGAACAAGTGTTCATCAAAGTGCCTCGGAGAAGGA
 TGAGCCCGGCAAGGGGGTTTCTGGCGCATCGACCCCACTACGCAGAGCGCCTGCTCAGTGGGGCCTTC
 AAGAAGCGGAGGCTGCCCCAGTCCACATCCACCTGCCTTTGCCCGCCAGGCCTCCAGGAACCTAGCG
 CTGCCCTTGGGGTGGGCTCTGACCGTGAACAGGGAGGCCAGCAGCTGCTTACAGGAGTTTGAGGAGGC
 CACAGGGGAGGGGGCTGGGGCACAGGAGAGGGCAGGCTGGGGCATAAGCGAAAGCAGCCGCTGCCAAAG
 AGGGTGGCCAAGTCTGCGGCCCTCCAGCACCTTACTGCTGACCCAGGAGGAGCAGGGTGGAGTGGAAAC
 CACTCAAAGGTAACCTTGGTGGAGGCCATCTTTGAGGCTGGCGCACTGGGGGAGGAGCTGAGCTCACT
 GGAGGGTCTGGAGCTAAGCCCCCGCTAAGCCCCAGCTCATGGAGATGTGGATCTTACAGTCCATGGC
 CGGCACATCAACTGCCCTGCTACCTGGGACCTCCAGCGGAGCAGGCTGCTGACAGCCTGGACTTTGATG
 AGACCTTCTTGGGCACATCCTTCTACAGCATCCCTGGGATGAGAGTGGTAGTGGCTGCCTGCCCCAGA
 ACCCATCTTTGAAGCAGGGGATGCCACCCTGGCCGCTGACCTGCAGGACTGGGCCAGTGTGGTGCCTTC
 TTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR206700 protein sequence
 Red=Cloning site Green=Tags(s)

MAESWLRLCGAGPGEEAGPEGGMEEPDALDDSLTSLQWLQEFISILNAKAPTLPPGGTDPHGHHQVPLVA
 PGSPLAADPAQLGPHTPGKPTSSCTSRSAAPPGLQAPPPDDVDYATNPHVKPPYSYATLICMAMQASKAT
 KITLSAIYKWITDNFCYFRHADPTWQNSIRHNLNLKCFIKVPREKDEPGKGGFWRIDPQYAERLLSGAF
 KKRRLPPVHIHPAFARQASQEPSAAPWGGPLTVNREAQQLLQEFEEATGEGGWGTGEGRLGHRKQPLPK
 RVAKVLRPPSTLLLQEEQGELEPLKGNFDWEAIFEAGALGEELSSLELELSPPLSPSSHGDVDLTVHG
 RHINCPATWPPAEQAADSLDFDETFLLGTSFLQHPWDESGSGCLPPEPIFEAGDATLAADLQDWSVGF
 L

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_008240

ORF Size: 1266 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_008240.2](#), [NP_032266.2](#)
RefSeq Size: 2599 bp

RefSeq ORF: 1266 bp

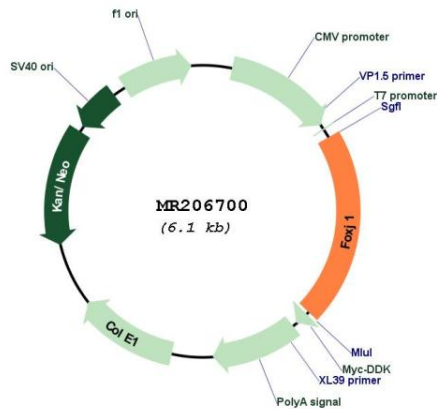
Locus ID: 15223

UniProt ID: [Q61660](#)
Cytogenetics: 11 81.16 cM

MW: 45.5 kDa

Gene Summary: Transcription factor specifically required for the formation of motile cilia (PubMed:9096351, PubMed:9739041, PubMed:10873152, PubMed:14996907, PubMed:22357932, PubMed:27965440). Acts by activating transcription of genes that mediate assembly of motile cilia, such as CFAP157 (PubMed:27965440). Binds the DNA consensus sequences 5'-HWDTGTTTGTTA-3' or 5'-KTTTGTGTTKTW-3' (where H is not G, W is A or T, D is not C, and K is G or T) (PubMed:9096351). Activates the transcription of a variety of ciliary proteins in the developing brain and lung (PubMed:28666954, PubMed:27914912).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206700