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Product datasheet for RC206727

HFH4 (FOXJ1) (NM_001454) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HFH4 (FOXJ1) (NM_001454) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HFH4
Synonyms:	CILD43; FKHL13; HFH-4; HFH4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC206727 representing NM_001454
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGAGAGCTGGCTGCGCCTCTCGGGAGCCGGGCCGGCGGAGGAGGCCGGGCCGGAGGGCGGCCTGG
AGGAGCCCGACGCCCTGGATGACAGCCTGACCAGCCTGCAGTGGCTGCAGGAATTCTCCATTCTCAACGC
CAAGGCCCCCGCCCTGCCCCCGGGGGGCACCGACCCCCACGGCTACCACCAGGTGCCAGGTTCAGCGGCG
CCCGGGTCCCCCCTGGCGGCCGACCCCGCCTGCCTGGGGCAGCCACACACGCCGGGCAAGCCCACGTCGT
CGTGCACGTCGCGGAGCGCGCCCCCGGGGCTGCAGGCCCCACCCCCCGACGACGTGGACTACGCCACCAA
TCCGCACGTGAAGCCTCCCTACTCGTATGCCACGCTCATCTGCATGGCCATGCAGGCCAGCAAGGCCACC
AAGATCACCCTGTCGGCCATCTACAAGTGGATCACGGACAACTTCTGCTACTTCCGCCACGCAGATCCCA
CCTGGCAGAATTCAATCCGCCACAACCTGTCTCTGAACAAGTGCTTCATCAAAGTGCCTCGGGAGAAGGA
CGAACCAGGCAAGGGGGGCTTCTGGCGCATTGACCCCCAGTACGCGGAGCGGCTACTGAGCGGCGCTTTC
AAGAAGCGGCGACTGCCCCCTGTCCACATCCACCCAGCCTTTGCCCGCCAGGCCGCGCAGGAGCCCAGCG
CTGTCCCCCGGGCCGGGCCGCTGACGGTGAATACCGAGGCCCAGCAGCTGCTGCGGGAGTTCGAGGAGGC
CACCGGGGAGGCGGGCTGGGGTGCAGGCGAGGGCAGGCTGGGGCATAAGCGCAAACAGCCGCTGCCCAAG
CGGGTGGCCAAGGTCCCGCGGCCCCCCAGCACCCTGCTGCCCACCCCGGAGGAGCAGGGTGAGCTGGAAC
CCCTCAAAGGCAACTTTGACTGGGAGGCCATCTTCGACGCCGGCACTCTGGGCGGGGAGCTGGGTGCACT
GGAGGCCCTGGAGCTGAGCCCGCCTCTGAGCCCCGCCTCACACGTGGACGTGGACCTCACCATCCACGGC
CGCCACATCGACTGCCCTGCCACCTGGGGGCCTTCGGTGGAGCAGGCTGCCGACAGCCTGGACTTCGATG
AGACCTTCCTGGCCACATCCTTCCTGCAGCACCCCTGGGACGAGAGCGGCAGTGGCTGCCTGCCCCCGGA
GCCCCTCTTTGAGGCTGGGGATGCCACCCTGGCCTCCGACCTGCAGGACTGGGCCAGCGTGGGGGCCTTC
TTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206727 representing NM_001454
Red=Cloning site Green=Tags(s)

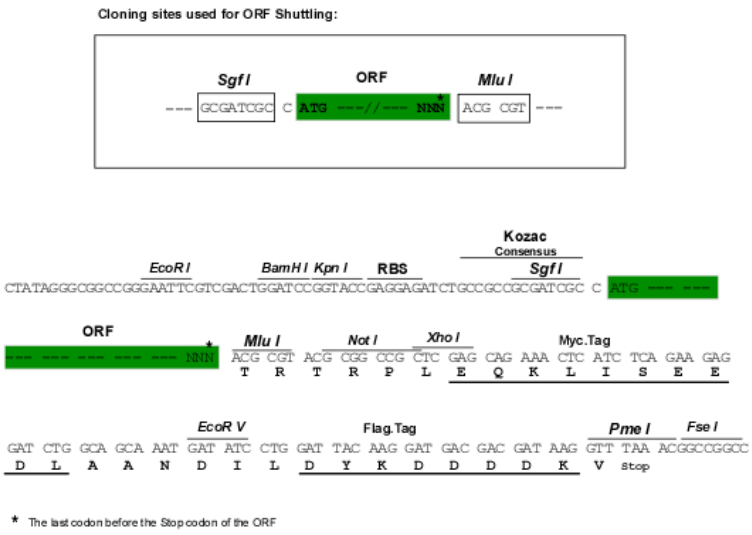
MAESWLRLSGAGPAEEAGPEGGLEEPDALDDSLTSLQWLQEFSILNAKAPALPPGGTDPHGYHQVPGSAA
PGSPLAADPACLGQPHTPGKPTSSCTSRSAPPGLQAPPPDDVDYATNPHVKPPYSYATLICMAMQASKAT
KITLSAIYKWITDNFCYFRHADPTWQNSIRHNLSLNKCFIKVPREKDEPGKGGFWRIDPQYAERLLSGAF
KKRRLPPVHIHPAFARQAAQEPSAVPRAGPLTVNTEAQQLLREFEEATGEAGWGAGEGRLGHKRKQPLPK
RVAKVPRPPSTLLPTPEEQGELEPLKGNFDWEAIFDAGTLGGELGALEALELSPPLSPASHVDVDLTIHG
RHIDCPATWGPSVEQAADSLDFDETFLATSFLQHPWDESGSGCLPPEPLFEAGDATLASDLQDWASVGAF
L

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8113_c04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001454

ORF Size: 1263 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

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

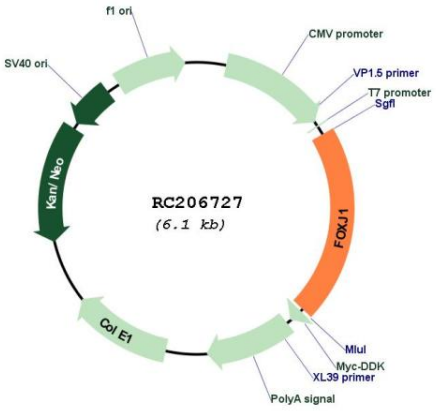
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

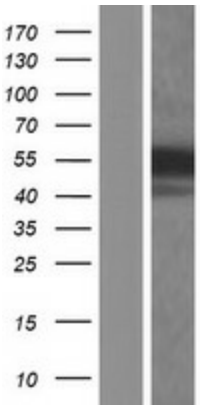
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001454.4
RefSeq Size:	2666 bp
RefSeq ORF:	1266 bp
Locus ID:	2302
UniProt ID:	Q92949
Cytogenetics:	17q25.1
Protein Families:	Transcription Factors
MW:	45.2 kDa
Gene Summary:	This gene encodes a member of the forkhead family of transcription factors. Similar genes in zebrafish and mouse have been shown to regulate the transcription of genes that control the production of motile cilia. The mouse ortholog also functions in the determination of left-right asymmetry. Polymorphisms in this gene are associated with systemic lupus erythematosus and allergic rhinitis.[provided by RefSeq, Sep 2009]

Product images:



Circular map for RC206727



Western blot validation of overexpression lysate (Cat# [LY419928]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206727 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).