

Product datasheet for **MR208150**

Fh1 (NM_010209) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fh1 (NM_010209) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fh1
Synonyms:	Fh; Fh-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208150 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTACCGCGCACTCCGTCTCCTCGCGCGCTCGCGTCCCTCGCGGGTCCGTCGCCCGGTGCTGCAG
 TGCTGGGAAGCGACCACTCCCGCGGTGTGCTCCGAACGTCGCGCGAATGGCAAGCCAAAATTCCTT
 CCGTGTAGAGTTCGACACCTTTGGTGAATTGAAGGTTCCAACCGATAAGTATTATGGTGTCTCAGACCGTA
 AGATCTACGATGAACTTTAAGATTGGAGGTGCTACAGAACGTATGCCAATCCCAGTCATTCAAGCTTTCG
 GCATCTTGAAGCGAGCTGCTGCTGAAGTAAACCAGGAGTATGGTCTCGATCCAAAGATTGCTAGTGAAT
 AATGAAGCCGAGATGAGGTAGCTGAAGTAAATTAATGATCACTTTCCTCTGGTGGTTTGGCAGACT
 GGATCAGGAACCCAGACAAACATGAATGTAATGAAGTCATTAGCAACAGAGCAATTGAAATGTTAGGAG
 GTGAACCTTGGCAGCAAGAAGCCTGTGCACCCCAATGATCATGTTAACAAAAGCCAGAGCTCGAATGACAC
 CTTTCCCACAGCAATGCATATTGCTGCTGCAGTGAAGTTCACAAGGTCCTGTTGCCAGGGTTACAGAAG
 CTCATGATGCTCTCAGTGCAAAATCCAAAGAGTTTGGCAGGTCATCAAAATGGGCGAACTCACACGC
 AGGACGCTGTCCCTTACTCTTGGACAGGAATTCAGTGGTACGTTACAGCAAGTCCAGTATGCGATGGT
 GAGAATAAAAGCCGCCATGCCAAGAATCTACGAGCTCGCTGCTGGAGGCACTGCTGTGGGACGGGGTTA
 AACACCAGGATCGGCTTCGCAGAAAAGTGGCCGCAAAAGTAGCAGCACTCACAGGTTTGCCTTTTGTC
 CTGCCCGAATAAATTTGAAGCTCTAGCTGCTCATGATGCTCTGGTTGAGCTTAGTGAGCCATGAACAC
 TGCCGCTGCAGTCTAATGAAGATAGCGAATGATTCGCTTCTGGGTTCTGGTCTCGGTCAGGTTTG
 GGAGAGCTGATCTTGCCTGAAAACGAGCCAGGGAGCAGCATCATGCCAGGAAAGTGAACCTACTCAGT
 GTGAACCGATGACCATGGTTGCAGCCCAAGTCATGGGGAATCACGTTGCTTACTGTTGGAGGCAGCAA
 TGGACATTTTGAAGTGAATGTGTTTAAACCAATGATGATTAAGAATGTGTTGCACTCAGCGAGGCTACTG
 GGAGATGCTTCAGTGTCTTACAGAAAAGTGTGTGGTGGGATCCAGGCCAACACAGAGCGGATCAACA
 AGCTAATGAATGAGTCTTAAATGTTGGTACAGCTCTTAAATCCACATATAGGGTATGACAAAAGCAGCAA
 GATTGCCAAGACTGCGCACAGAAGCGGATCAACCTTAAAGGAAACGGCTATTGAACCTGGCTATCTCACA
 GCAGAGCAGTTTATGAGTGGGTGAAACCAAGGACATGCTGGGTCCAAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208150 protein sequence
 Red=Cloning site Green=Tags(s)

MYRALRLLARSRRLLRVPSAGAAVSGEATTLPRCAPNVARMASQNSFRVEFDTFGELKVPTDKYYGAQTV
 RSTMNFKIGGATERMPIPVIQAFGILKRAAAEVNQEYGLDPKIASAIMKAADEVAEGKLNDFPLVWVQT
 GSGTQTNMNVNEVISNRAIEMLGELGSKKPVHPNDHVNSQSSNDTFPTAMHIAAAVEVHKVLLPGLQK
 LHDALSAKSKEFAQVIKIGRTHTQDAVPLTLGQEFSGYVQVQYAMVRIKAAMPRIYELAAGGTAVGTGL
 NTRIGFAEKVAAKVAALTGLPFVTAPNKFEALAAHDALVELSGAMNTAACSLMKIANDIRFLGSGPRSGL
 GELILPENEPGSSIMPGKVNPTQCEAMTMVAAQVMGNHVAVTVGGSNHGFELNVFKPMMIKNVLHSARLL
 GDASVSFTENCVGIQANTERINKLMNESLMLVTALNPHIGYDKAALKIAKTAHKNSTLKETAIELGYLT
 AEQFDEWVKPKDMLGPK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_010209

ORF Size: 1524 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](#)

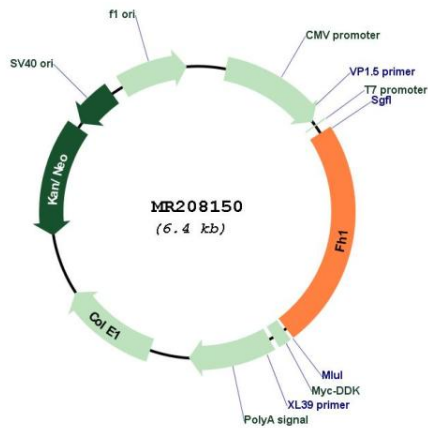
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

RefSeq: [NM_010209.1](#), [NP_034339.1](#)

RefSeq Size:	1644 bp
RefSeq ORF:	1524 bp
Locus ID:	14194
UniProt ID:	P97807
Cytogenetics:	1 H3
MW:	54.4 kDa
Gene Summary:	Catalyzes the reversible stereospecific interconversion of fumarate to L-malate. [UniProtKB/Swiss-Prot Function]

Product images:


Circular map for MR208150