

Product datasheet for **MG208150**

Fh1 (NM_010209) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fh1 (NM_010209) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fh1
Synonyms:	Fh; Fh-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208150 representing NM_010209
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGTACCGCGCACTCCGTCTCCTCGCGCGCTCGCGTCGCCTCCTGCGGGTTCGTCGCCCGGTGCTGCAG
 TGTCTGGGGAAGCGACCACTCCCGCGGTGTGCTCCGAACGTCGCGCAATGGCAAGCCAAAATTCCTT
 CCGTGTAGAGTTCGACACCTTTGGTGAATTGAAGGTTCCAACCGATAAGTATTATGGTGTCTCAGACCGTA
 AGATCTACGATGAACCTTAAGATTGGAGGTGCTACAGAACGTATGCCAATCCAGTCATTCAAGCTTTTCG
 GCATCTTGAAGCGAGCTGCTGCTGAAGTAAACCAGGAGTATGGTCTCGATCCAAAGATTGCTAGTGAAT
 AATGAAGCGCGCAGATGAGGTAGCTGAAGTAAATTAATGATCACTTTCCTCTGGTGGTTTGGCAGACT
 GGATCAGGAACCCAGACAAACATGAATGTAATGAAGTCATTAGCAACAGAGCAATTGAAATGTTAGGAG
 GTGAACCTTGGCAGCAAGAAGCCTGTGCACCCCAATGATCATGTTAACAAAAGCCAGAGCTCGAATGACAC
 CTTTCCCACAGCAATGCATATTGCTGCTGCAGTGAAGTTCACAAGGTCCTGTTGCCAGGGTTACAGAAG
 CTCCATGATGCTCTCAGTGCAAAATCCAAAGAGTTTGCAGGTCATCAAAATTGGGCGAACTCACACGC
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 AACACCAGGATCGGCTTCGAGAAAAGGTGGCCGAAAAGTAGCAGCACTCACAGGTTTGCTTTTGTCA
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 TGCCGCTGCAGTCTAATGAAGATAGCGAATGATATTCGCTTCTGGGTTCTGGTCTCGGTGAGTTTG
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 GTGAAGCGATGACCATGGTTGCAGCCCAAGTCATGGGGAATCACGTTGCTGTTACTGTTGGAGGCAGCAA
 TGGACATTTTGAAGTGAATGTGTTTAAACCAATGATGATTAAGAATGTGTTGCACTCAGCGAGGCTACTG
 GGAGATGCTTCAGTGTCTTACAGAAAATGTGTGGTGGGATCCAGGCCAACAGAGCGGATCAACA
 AGCTAATGAATGAGTCTTAAATGTTGGTACAGCTCTTAATCCACATATAGGGTATGACAAAGCAGCAAA
 GATTGCCAAGACTGCGCACAAGAACGGATCAACCTTAAAGGAAACGGCTATTGAAGTGGCTATCTCACA
 GCAGAGCAGTTTATGAGTGGGTGAAACCAAGGACATGCTGGGTCCAAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208150 representing NM_010209
 Red=Cloning site Green=Tags(s)

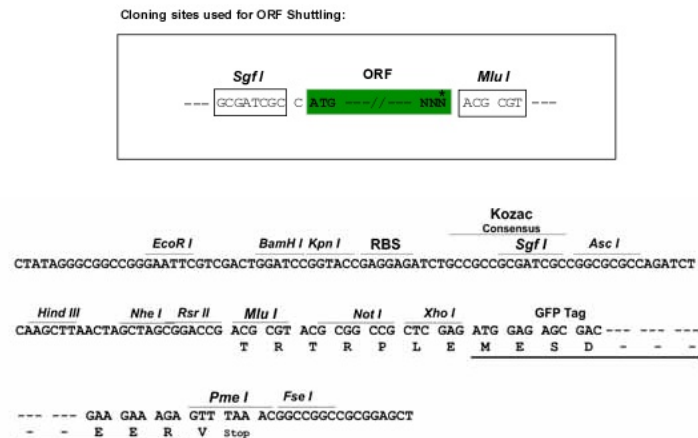
MYRALRLLARSRRLLRVPSAGAAVSGEATTLPRCAPNVARMASQNSFRVEFDTFGELKVPTDKYYGAQTV
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 GSGTQTNMNVNEVISNRAIEMLGELGSKKPVPNDHVNSQSSNDTFPTAMHIAAAVEVHKVLLPGLQK
 LHDALSAKSKEFAQVIKIGRTHQDAVPLTLGQEFSGYVQVQYAMVRIKAAMPRIYELAAGGTAVGTGL
 NTRIGFAEKVAAKVAALTGLPFVTAPNKFEALAAHDALVELSGAMNTAACSLMKIANDIRFLSGSPRSGL
 GELILPENEPGSSIMPGKVNPTQCEAMTMVAAQVMGNHVAVTVGGSNGHFELNVFKPMIKNVLHSARLL
 GDASVSFTENCVVGIIQANTERINKLMNESLMLVTALNPHIGYDKAAKIAKTAHKGSTLKETAIELGYLT
 AEQFDEWVKPKDMLGPK

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_010209

ORF Size: 1521 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.

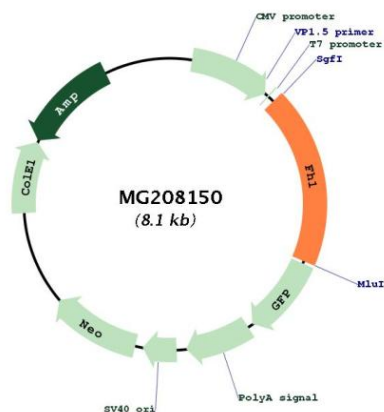
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_010209.1 , NP_034339.1
RefSeq Size:	1588 bp
RefSeq ORF:	1524 bp
Locus ID:	14194
UniProt ID:	P97807
Cytogenetics:	1 H3
Gene Summary:	Catalyzes the reversible stereospecific interconversion of fumarate to L-malate. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG208150