

## Product datasheet for MR228958

### Fhl2 (NM\_001289533) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fhl2 (NM_001289533) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fhl2
Synonyms:	FHL-2; SL; SLIM-3; SLIM3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR228958 representing NM_001289533 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGACTGAACGCTTTGACTGCCACCACTGCAATGAATCTCTGTACGGCAAGAAGTACATTCTAAAGGAGG  
AGAACCCACACTGTGTGGCCTGCTTCGAGGAACCCTATGCCAATACCTGTGAGGAGTGTGGAACACCCAT  
CGGCTGCGACTGCAAGGACTTGCCTACAAGGATCGGCACTGGCATGAAGGCTGCTTCCATTGCTCCCGG  
TGTGGAAGCTCGCTGGTGGACAAGCCCTTGTGCCAAGGAGGAACAGCTGCTGTGCACCGACTGCTATT  
CCAATGAATACTCGTCCAAGTGCCAGGAATGCAAGAAAACCATCATGCCAGGTACCCGCAAGATGGAATA  
CAAGGGCAGCAGCTGGCAGGAGACTGCTTACCTGTGACGCGTCCAGCAGCCATTGGAACCAAGAGC  
TTCATACCTAAGGAGAATCAGAATTCTGCGTGCCTGCTATGAGAAGCAGTATGCCCTGCAGTGCCTGC  
AGTGCAAAAAGCCTATCACACAGGAGGTGTTACTTACCGGGAGCAGCCCTGGCACAAGGAATGCTTTGT  
GTGCACAGCCTGCAAGAAGCAGCTATCTGGCAACGCTTACAGCAGCGGATGAGTTTCCATACTGCCTG  
ACCTGCTTCTGTGACTTGTACGCTAAGAAATGTGCTGGTGCACCAACCCATTAGTGGTCTGGTGGCA  
CAAAGTACATCTTTTCGAGGAACGCAATGGCACAACGACTGCTTAACTGTAAGAAGTGTCCCTGTC  
TCTGGTGGGACGAGGCTTCTCACAGAGAGAGATGACATCCTCTGTCTGACTGTGAAAAGGATATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR228958 representing NM\_001289533  
 Red=Cloning site Green=Tags(s)

MTERFDCHHCNESLYGKKYILKEENPHCVACFEOPYANTCEECPGTPIGCDCKDLSYKDRHWHEGCFHCSR  
 CGSSLVDKPFAAKEEQLLCTDCYSNEYSSKCQECKKTIIMPGRKMEYKGSWHETCFTCQRCQPIGTKS  
 FIPKENQNFVPCYEKQYALQCVQCKPITTTGGVTYREQPWHKECFVCTACKKQLSGQRFTARDEFPYCL  
 TCFCDLYAKKCAGCTNPIISGLGGTKYISFEERQWHNDCFNCKKCSLSLVGRGFLTERDDILCPDCGKDI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001289533

**ORF Size:** 837 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\\_001289533.1](#), [NP\\_001276462.1](#)

**RefSeq Size:** 1417 bp

**RefSeq ORF:** 840 bp

**Locus ID:** 14200

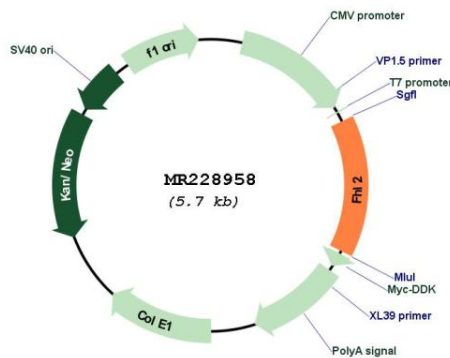
**UniProt ID:** [O70433](#)

**Cytogenetics:** 1 C1.1

**MW:** 32.1 kDa

**Gene Summary:** This gene encodes a member of the four-and-a-half-LIM-only protein family. The encoded protein functions as a regulator in numerous signaling pathways and cellular processes in development and cellular differentiation, including development and maintenance of the cardiovascular system and striated muscles. This gene also plays a role in bone formation and regulates and bone mineral content and bone mineral density. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]

### Product images:



Circular map for MR228958