

Product datasheet for **RC200398**

FHL2 (NM_201557) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FHL2 (NM_201557) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FHL2
Synonyms:	AAG11; DRAL; FHL-2; SLIM-3; SLIM3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200398 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTGAGCGCTTTGACTGCCACCATTGCAACGAATCTCTTTGGCAAGAAGTACATCCTGCGGGAGG
AGAGCCCCTACTGCGTGGTGTGCTTTGAGACCCTGTTTCGCAACACCTGCGAGGAGTGTGGGAAGCCCAT
CGGCTGTGACTGCAAGGACTTGTCTTACAAGGACCGGCACTGGCATGAAGCCTGTTTCCACTGCTCGCAG
TGCAGAACTCACTGGTGGACAAGCCCTTGTGCCAAGGAGGACCAGCTGCTCTGTACAGACTGCTATT
CCAACGAGTACTCATCCAAGTCCAGGAATGCAAGAAGACCATCATGCCAGGTACCGCAAGATGGAGTA
CAAGGGCAGCAGCTGGCATGAGACCTGCTTCATCTGCCACCGCTGCCAGCAGCAATTGGAACCAAGAGT
TTCATCCCCAAAGACAATCAGAATTTCTGTGTGCCCTGCTATGAGAAAACAACATGCCATGCAGTGCCTTC
AGTGCAAAAAGCCCATCACACGGGAGGGGTCACTTACCGGGAGCAGCCCTGGCACAAGGAGTGTTCGT
GTGCACCGCTGCAGGAAGCAGCTGTCTGGGCAGCGCTTACAGCTCGCGATGACTTTGCCTACTGCCTG
AACTGTTCTGTGACTTGTATGCCAAGAAGTGTGCTGGGTGCACCAACCCATCAGCGGACTTGGTGGCA
CAAATACATCTCTTTGAGGAACGGCAGTGGCATAACGACTGCTTTAACTGTAAGAAGTGTCCCTCTC
ACTGGTGGGGCGTGGCTTCTCACAGAGAGGGACGACATCCTGTGCCCGACTGTGGAAAGACATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC200398 protein sequence
 Red=Cloning site Green=Tags(s)

MTERFDCHHCNESLFGKKYILREESPYCVVCFETLFANTCEECKGPIGCDCKDLSYKDRHWHEACFHCSQ
 CRNSLVDKPFPAKEDQLLCTDCYSNEYSSKQCECKKTIIMPGRKMEYKGSWHETCFICHRCQQPIGTKS
 FIPKDNQNFVPCYEKQHAMQCVQCKKPIITGGVTYREQPWHKECFVCTACRQKLSGQRFTARDDFAYCL
 NCFCDLYAKKACAGCTNPIISGLGGTKYISFEERQWHNDCFNCKKCSLSLVGRGFLTERDDILCPDCGKDI

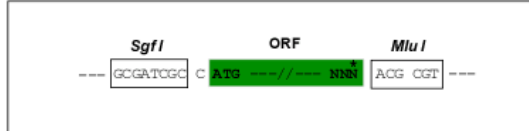
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6455_d10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_201557

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_201557.4](#)

RefSeq Size: 1727 bp

RefSeq ORF: 840 bp

Locus ID: 2274

UniProt ID: [Q14192](#)

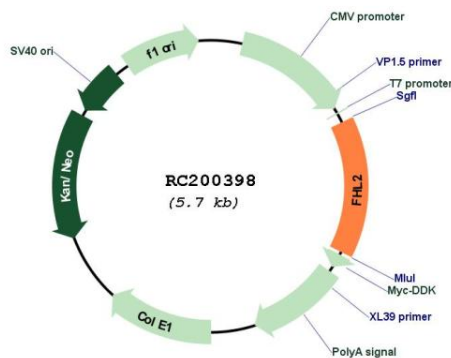
Cytogenetics: 2q12.2

Protein Families: Druggable Genome

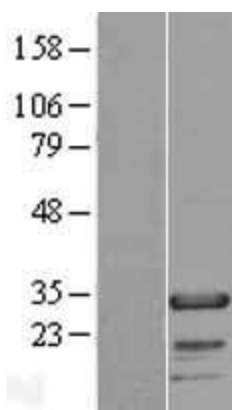
MW: 32.2 kDa

Gene Summary: This gene encodes a member of the four-and-a-half-LIM-only protein family. Family members contain two highly conserved, tandemly arranged, zinc finger domains with four highly conserved cysteines binding a zinc atom in each zinc finger. This protein is thought to have a role in the assembly of extracellular membranes. Also, this gene is down-regulated during transformation of normal myoblasts to rhabdomyosarcoma cells and the encoded protein may function as a link between presenilin-2 and an intracellular signaling pathway. Multiple alternatively spliced variants encoding different isoforms have been identified. [provided by RefSeq, Jan 2016]

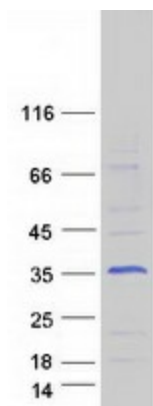
Product images:



Circular map for RC200398



Western blot validation of overexpression lysate (Cat# [LY419930]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC220344] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FHL2 protein (Cat# [TP300398]). The protein was produced from HEK293T cells transfected with FHL2 cDNA clone (Cat# RC200398) using MegaTran 2.0 (Cat# [TT210002]).