

Product datasheet for RC219762

FHL2 (NM_001039492) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FHL2 (NM_001039492) 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:	>RC219762 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGACTGAGCGCTTTGACTGCCACCATTGCAACGAATCTCTTTGGCAAGAAGTACATCCTGCGGGAGG
AGAGCCCCTACTGCGTGGTGTGCTTTGAGACCCTGTTGCGCAACACCTGCGAGGAGTGTGGGAAGCCCAT
CGGCTGTGACTGCAAGGACTTGTCTTACAAGGACCGGCACTGGCATGAAGCCTGTTTCCACTGCTCGCAG
TGCAGAACTCACTGGTGGACAAGCCCTTGTGCGCAAGGAGGACCAGCTGCTCTGTACAGACTGCTATT
CCAACGAGTACTCATCCAAGTGCCAGGAATGCAAGAAGACCATCATGCCAGGTACCGCAAGATGGAGTA
CAAGGGCAGCAGCTGGCATGAGACCTGCTTCATCTGCCACCGCTGCCAGCAGCCAATTGGAACCAAGAGT
TTCATCCCCAAAGACAATCAGAATTTCTGTGTGCCCTGCTATGAGAAAACAACATGCCATGCAGTGCCTTC
AGTGCAAAAAGCCCATCACACGGGAGGGGTCACTTACCGGGAGCAGCCCTGGCACAAGGAGTGTTCGT
GTGCACCGCTGCAGGAAGCAGCTGTCTGGGACGCGTTACAGCTCGCGATGACTTTGCCTACTGCCTG
AACTGTTCTGTGACTTGTATGCCAAGAAGTGTGCTGGGTGCACCAACCCATCAGCGGACTTGGTGGCA
CAAATACATCTCTTTGAGGAACGGCAGTGGCATAACGACTGCTTTAACTGTAAGAAGTGTCCCTCTC
ACTGGTGGGCGTGGCTTCTCACAGAGAGGGACGACATCCTGTGCCCGACTGTGGAAAGACATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC219762 protein sequence
Red=Cloning site Green=Tags(s)

MTERFDCHHCNESLFGKKYILREESPYCVVCFETLFANTCEECKPIGCDCKDLSYKDRHWHEACFHCSQ
 CRNSLVDKPF AAKEDQLLCTDCYSNEYSSKQCECKKTIIMPGRKMEYKGSWHETCFICHRCQQPIGTKS
 FIPKDNQNFVPCYEKQHAMQCVQCKKPIITGGVTYREQPWHKECFVCTACRQKLSGQRFTARDDFAYCL
 NCFCDLYAKKACAGCTNPI SGLGGTKYISFEERQWHNDCFNCKKCSLSLVGRGFLTERDDILCPDCGKDI

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_001039492

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_001039492.3](#)

RefSeq Size: 1552 bp

RefSeq ORF: 840 bp

Locus ID: 2274

UniProt ID: [Q14192](#)

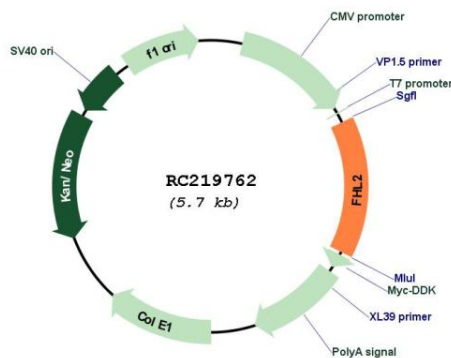
Cytogenetics: 2q12.2

Protein Families: Druggable Genome

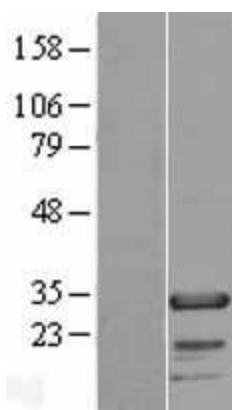
MW: 32.2 kDa

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]

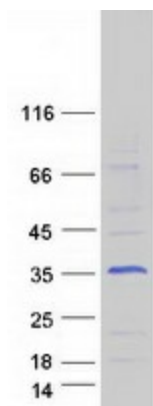
Product images:



Circular map for RC219762



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# [TP319762]). The protein was produced from HEK293T cells transfected with FHL2 cDNA clone (Cat# RC219762) using MegaTran 2.0 (Cat# [TT210002]).