

Product datasheet for RC217971

FEZ1 (NM_022549) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: FEZ1 (NM_022549) Human Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: FEZ1
 Synonyms: UNC-76
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >RC217971 representing NM_022549
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGGCCCACTGGTGAAGTCTGGATGAAGAGTTTGGAGACCTTCGACCCTCCTGCTCGGAGGACCCGG
 AGGAGAAGCCCCAGTGTTTCTATGGTTCATCTCCCCACCATCTCGAGGACCCCTCCCTCTCCGAGCTTGA
 GAATTTTCTTCCGAAATAATCAGCTTCAAGTCCATGGAGACCTCGTAAATGAATTTGATGAGAAGCTC
 AATGTCTGCTTTCGGAACAACGCCAAGACCGAGAACCCTAGCTCCCGTGAAGAACCAGTTACAGATCC
 AAGAGGAGGAGGAGACCCTTCAGGACGAGGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC217971 representing NM_022549
 Red=Cloning site Green=Tags(s)

MEAPLVSLDEEFDLRPSCEDPEEKPCQCFYGSSPHLEDPSELENFSSEIISFKSMEDLVNEFDEKL
 NVCFRNYNAKTENLAPVKNQLQIQEEEEETLQDEE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6493_f12.zip

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_022549

ORF Size: 312 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_022549.3](#)

RefSeq Size: 1753 bp

RefSeq ORF: 315 bp

Locus ID: 9638

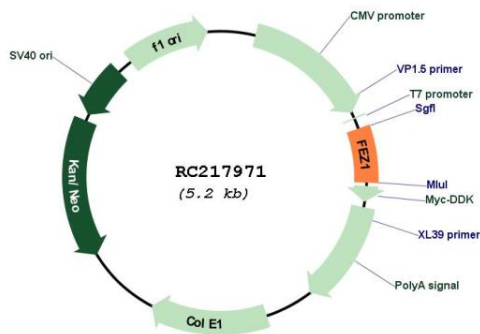
UniProt ID: [Q99689](#)

Cytogenetics: 11q24.2

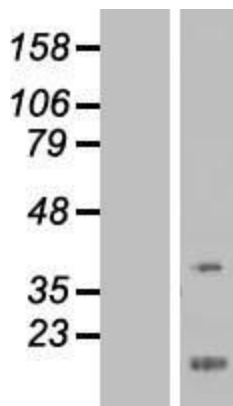
MW: 11.9 kDa

Gene Summary: This gene is an ortholog of the *C. elegans* *unc-76* gene, which is necessary for normal axonal bundling and elongation within axon bundles. Expression of this gene in *C. elegans* *unc-76* mutants can restore to the mutants partial locomotion and axonal fasciculation, suggesting that it also functions in axonal outgrowth. The N-terminal half of the gene product is highly acidic. Alternatively spliced transcript variants encoding different isoforms of this protein have been described. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC217971



Western blot validation of overexpression lysate (Cat# [LY411646]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217971 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).