

Product datasheet for RC202344

FEZ1 (NM_005103) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FEZ1 (NM_005103) 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:	>RC202344 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGGAGGCCCACTGGTGAAGTCTGGATGAAGAGTTTGGAGACCTTCGACCCTCCTGCTCGGAGGACCCGGAGGAGAAGCCCCAGTGTTTCTATGGTTCATCTCCCCACCATCTCGAGGACCCCTCCCTCTCCGAGCTTGAATTTTTCTTCCGAAATAATCAGCTTCAAGTCCATGGAGGACCTCGTAAATGAATTTGATGAGAAGCTCAATGTCTGCTTTCGGAACAACGCAAGACCGAGAACCTAGTCCCGTGAAGAACCAGTTACAGATCCAAAGAGGAGGAGACCCTTCAGGACGAGGAGGTTTGGGATGCTCTGACAGACAATTACATCCCTTCACTCTCAGAAGACTGGAGGGATCCAAACATCGAGGCTCTGAATGGCAACTGCTCTGACTGAGATCCATGAGAAAGAAGAGGAAGAGTTCAATGAGAAGAGTGAAAATGATTCCGGTATCAACGAGGAGCCTCTGCTCACAGCAGATCAGGTAATTGAGGAGATTGAGGAAATGATGCAGAATCCCCAGACCCTGAGGAAGAAGAGGAGGTCTTGGAAGAAGAGGATGGAGGAGAACTTCTCCAGGCAGACTCGGTCTCCTGCAGGAGATGCAGGCAATGACACAGACCTTCAACAACAAGTGGTCTATGAAGGGCTGAGGCACATGTCTGGGTCTGAGCTGACCGAGCTGCTGGACCAGGTGGAGGGTGCCATCCGTGACTTCTCGGAGGAGCTGGTGCAGCAGCTGGCCCGCCGGACGAGCTGGAGTTTGAAGAAGAGTGAAGAATCCTTTATCACGGTGTATTGAGGTTTCAGAACAAGCAGAAGGAGCAGCGAGAATGATGAAAAAGAGGGCGAAAGAGAAAGGGCTGAGCCTCGAGAGCAGCCGGA TAGAGAAGGGAACCAGATGCCTCTCAAGCGCTTCAGCATGGAAGGCATCTCCAACATTCGAGAGTGGCATCCGCCAGACCTTTGGCTCCTCAGGAACTGACAAACAGTATCTGAACACAGTCATTCTTACGAGAAGAAAGCCTCTCCTCCCTCAGTGAAGACCTGCAGATGCTGACAAACATTCTTTGCCATGAAGGAGGATAATGAGAAGGTGCCTACTTTGCTAACGGACTACATTTTAAAGTGCTCTGCCCTACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RC202344 protein sequence
Red=Cloning site Green=Tags(s)

MEAPLVSLDEEFEDLRPSCSEDPEEKPCQCFYGSSPHLEDPSLSELENFSSEIISFKSMEDLVNEFDEKL
 NVCFRNYNAKTENLAPVKNQLQIQEEEE TLQDEEVWDAL TDNYIPSL SEDWRDPNIEALNGNCSDTEIHE
 KEEEFNEKSENDSGINEEPLL TADQVIEEIEEMMQNSPDPEEEEEVLEEEEDGGETSSQADSVLLQEMQA
 LTQTFNNWSYEGLRHMSGSEL TELLDQVEGAIRD FSEELVQQLARRDELEFEKEVKNSF I TVLIEVQNK
 QKEQRELMKRRRKEKGLSLQSSRIEKGNQMP LKRF SMEG I SNILQSGIRQTF GSSGTDKQYLNTVIPYEK
 KASPPSVEDLQMLTNILFAMKEDNEKVPTLL TDYILKVLCP T

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6540_e07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005103

ORF Size: 1176 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_005103.5](#)

RefSeq Size: 1781 bp

RefSeq ORF: 1179 bp

Locus ID: 9638

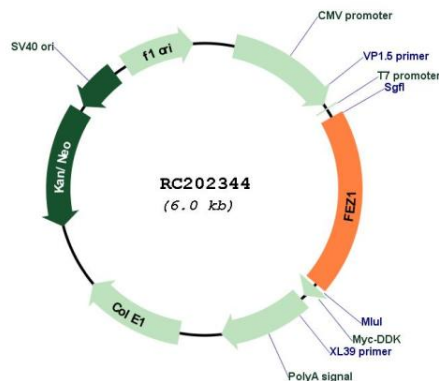
UniProt ID: [Q99689](#)

Cytogenetics: 11q24.2

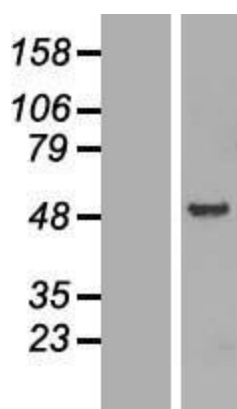
MW: 45.1 kDa

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 RC202344



Western blot validation of overexpression lysate (Cat# [LY417518]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202344 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).