

## Product datasheet for **RG202344**

### FEZ1 (NM\_005103) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FEZ1 (NM_005103) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FEZ1
Synonyms:	UNC-76
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202344 representing NM_005103 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGCCCACTGGTGAAGTCTGGATGAAGAGTTTGGAGACCTTCGACCCTCCTGCTCGGAGGACCCGG  
AGGAGAAGCCCCAGTGTTTCTATGGTTCATCTCCCCACCATCTCGAGGACCCCTCCCTCTCCGAGCTTGA  
GAATTTTTCTCCGAAATAATCAGCTTCAAGTCCATGGAGGACCTCGTAAATGAATTTGATGAGAAGCTC  
AATGTCTGCTTTCGGAACAACGCAAGACCGAGAACCTAGCTCCCGTGAAGAACCAGTTACAGATCC  
AAGAGGAGGAGGAGACCCTTCAGGACGAGGAGTTTGGGATGCTCTGACAGACAATTACATCCCTTCACT  
CTCAGAAGACTGGAGGGATCCAAACATCGAGGCTCTGAATGGCAACTGCTCTGACTGAGATCCATGAG  
AAAGAAGAGGAAGAGTTCAATGAGAAGAGTGAATGATTCCGGTATCAACGAGGAGCCTCTGCTCACAG  
CAGATCAGGTAATTGAGGAGATTGAGGAAATGATGCAGAATCCCGAGCCCTGAGGAAGAAGAGGAGGT  
TCTGGAAGAAGAGGATGGAGGAGAACTTCTCCAGGCAGACTCGGTCTCCTGCAGGAGATGCAGGCA  
TTGACACAGACCTTCAACAACAAGTGGTCTATGAAGGGCTGAGGCACATGTCTGGGTCTGAGCTGACCG  
AGCTGCTGGACCAGGTGGAGGTGCCATCCGTGACTTCTCGGAGGAGCTGGTGCAGCAGCTGGCCCGCC  
GGACGAGCTGGAGTTTGAAGAAGAGTGAAGAATCCTTTATCACGGTGTATTGAGGTTTCAGAACAAG  
CAGAAGGAGCAGCGAGAATGATGAAAAAGAGGGCGAAAGAGAAAGGGCTGAGCCTGCAGAGCAGCCGGA  
TAGAGAAGGGAACCAGATGCCTCTCAAGCGCTTCAGCATGGAAGGCATCTCCAACATTCTGCAGAGTGG  
CATCCGCCAGACCTTTGGCTCCTCAGGAACTGACAAACAGTATCTGAACACAGTCATTCTTACGAGAAG  
AAAGCCTCTCCTCCCTCAGTGAAGACCTGCAGATGCTGACAAACATTCTTTGCCATGAAGGAGGATA  
ATGAGAAGGTGCCTACTTTGCTAACGGACTACATTTTAAAGTGTCTGCCTTACC

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG202344 representing NM\_005103  
 Red=Cloning site Green=Tags(s)

MEAPLVSLDEEFEDLRPSCSEDPEEKPQCFYGSSPHHLEDPSLSELENFSSEIISFKSMEDLVNEFDEKL  
 NVCFRNYNAKTENLAPVKNQLIQEEEE TLQDEEVWDAL TDNYIPSL SEDWRDPNIEALNGNCSDTEIHE  
 KEEEFNEKSENDSGINEEPLL TADQVIEEIEEMMQNSPDPEEEEEVLEEEDGGETSSQADSVLLQEMQA  
 LTQTFNNWSYEGLRHMSGSEL TELLDQVEGAIRDFSEELVQQLARRDELEFEKEVKNSF I TVLIEVQNK  
 QKEQRELMKRRRKEKGLSLQSSRIEKGNQMPLKRFMEGISNILQSGIRQTFGSSGTDKQYLNTVIPYEK  
 KASPPSVEDLQMLTNILFAMKEDNEKVPTLLTDYILKVLCP T

TRTRPLE - GFP Tag - V

**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:** 1702 bp

**RefSeq ORF:** 1179 bp

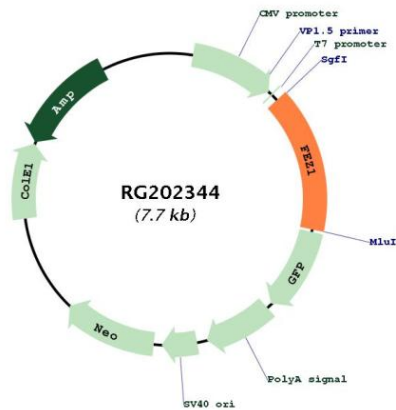
**Locus ID:** 9638

**UniProt ID:** [Q99689](#)

**Cytogenetics:** 11q24.2

**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 RG202344