

## Product datasheet for SC116927

### FEZ1 (NM\_005103) Human Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | FEZ1 (NM_005103) Human Untagged Clone   |
| Tag:                      | Tag Free  |
| Symbol:                   | FEZ1  |
| Synonyms:                 | UNC-76  |
| Mammalian Cell Selection: | None  |
| Vector:                   | <u><a href="#">pCMV6-XL5</a></u>  |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| Fully Sequenced ORF:      | >OriGene ORF within SC116927 sequence for NM_005103 edited (data generated by NextGen Sequencing) |

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ATGGAGCCCCACTGGTGAAGGTTTGGAGACCTTCGACCCTCTGCTCG
GAGGACCCGGAGGAGAAGCCCCAGTGTTTCTATGGTTTCATCTCCCACTCTCGAGGAC
CCCTCCCTCTCCGAGCTTGAGAATTTTTCTCCGAAATAATCAGCTTCAAGTCCATGGAG
GACCTCGTAAATGAATTTGATGAGAAGCTCAATGTCTGCTTTCGAACTACAACGCCAAG
ACCGAGAACCTAGCTCCCGTGAAGAACCAGTTACAGATCCAAGAGGAGGAGGAGACCCCTT
CAGGACGAGGAGGTTGGGATGCTCTGACAGACAATTACATCCCTTCACTCTCAGAAGAC
TGGAGGGATCCAAACATCGAGGCTCTGAATGGCAACTGCTCTGACACTGAGATCCATGAG
AAAGAAGAGGAAGAGTTCAATGAGAAGAGTGAAAATGATTCGGTATCAACGAGGAGCCT
CTGCTCACAGCAGATCAGGTAATTGAGGAGATTGAGGAAATGATGCAGAACTCCCCAGAC
CCTGAGGAAGAAGAGGAGTTCTGGAAGAAGAGGATGGAGGAGAACTTCTCCCAAGGCA
GACTCGGTCTCTGCAGGAGATGCAGGCATTGACACAGACCTTCAACAACAAGTGGTCC
TATGAAGGGCTGAGGCACATGTCTGGGTCTGAGCTGACCGAGCTGCTGGACCAGGTGGAG
GGTGCCATCCGTGACTTCTCGGAGGAGCTGGTGCAGCAGCTGGCCCGCCGGGACGAGCTG
GAGTTTGAGAAGGAAGTGAAGAACTCCTTATCACGGTGCTTATTGAGGTTTCAGAACAAG
CAGAAGGAGCAGCGAGAAGTGAAGAACTGATGAAAAAGAGGCGGAAAGAGAAAGGGCTGAGCCTGCAG
AGCAGCCGGATAGAGAAGGAAACCAGATGCCTCTCAAGCGCTTCAAGGATGGAAGGCATC
TCCAACATTCTGCAGAGTGGCATCCGCCAGACCTTTGGTCTCCTCAGGAACTGACAACAG
TATCTGAACACAGTCATTCTTACGAGAAGAAAGCCTCTCCTCCCTCAGTGAAGACCTG
CAGATGCTGACAAACATTCTCTTTGCCATGAAGGAGGATAATGAGAAGGTGCCTACTTNG
CTAACGGACTACATTTTAAAAGTCTCTGCCCTACCTAA

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Clone variation with respect to NM\_005103.4  
1139 t=>n



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_005103 unedited  
 GTATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCTCCCTCCGCCAGGACC  
 CGCACAGATAAACTCATCCTGAAAGTCGCTGTTGTTCTCCTGCTGAGCAAGAATGGAGGC  
 CCCACTGGTGAGTCTGGATGAAGAGTTTGGAGACCTTCGACCCTCCTGCTCGGAGGACCC  
 GGAGGAGAAGCCCCAGTGTTCATGGTTCATCTCCCACCATCTCGAGGACCCCTCCCT  
 CTCCGAGCTTGAGAATTTTTCTCCGAAATAATCAGCTTCAAGTCCATGGAGGACCTCGT  
 AAATGAATTTGATGAGAAGCTCAATGTCTGCTTTCCGAACTACAACGCCAAGACCGAGAA  
 CCTAGCTCCCGTGAAGAACCAGTTACAGATCCAAGAGGAGGAGGAGACCCCTTCAGGACGA  
 GGAGGTTTGGGATGCTCTGACAGACAATTACATCCCTTCACTCTCAGAAGACTGGAGGGA  
 TCCAAACATCGAGGCTCTGAATGGCAACTGCTCTGACACTGAGATCCATGAGAAAGAAGA  
 GGAAGAGTTCAATGAGAAGAGTGAAAAATGATTCCGGTATCAACGAGGAGCCTCTGCTCAC  
 AGCAGATCAGGTAATTGAGGAGATTGAGGAAATGATGCAGAACTCCCAGACCCTGAGGA  
 AGAAGAGGAGGTTCTGGAAGAAGAGGATGGANGGAGAACTTCTCCAGGCAGACTCGG  
 TCCTTCTGCANGAGATGCANGCATTGACACAGACCTTCAACAACACTGGTCTATGAAGG  
 GCTGANGCACATGNTCTGGGTCTGAGCTGACCGAGCTGCTGNACCANGTGGNAGGNTGC  
 CCATCCGTGACTTNCTCGAGNAGCTGGTGCANCAACTGGCCC GCCGGGACGAGCTGNAGT  
 TNGANAAGGNAAGTGAAACTNCTTATCAGTGTCTAATTTGGGNTCANAACAGA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_005103 unedited  
 CGTTCGGGGGGAATCCAAATTAGTCTTAGNAGTTAAGCTGCTTTTGAGGGCTGTCAGCC  
 GACTACATAATGAGCGGTGAAAGCGGCTGCCTTCCCCTCCTGACACCAGCAAGGGGA  
 GGCACCATCACCGCCCTGCCCATCATGCATCCAATGATTAAGTACTAGCACTAGAAGCCAAC  
 GGCAAAGGACCCGCGCTTGCTCGTGTAAATCCAGGTTAAGCTATACAGTTTAAAT  
 ACATGTCGGAGGTTACATGGTCTCATGCAGTCCCTGTGATGGAATGACTCTTGCTCATTG  
 ACCTCCTGCAGCGAGGCTGCTCCAAAGGGCAAGGTTACGTAAGGCAGAGCACTTTAAAA  
 TGTAGTCCGTTAGCAAGTAGGCACCTTCTCATTATCCTCCTTATGGCAAAGAGAATGTT  
 TGTCCACATCTGCAGGCTTCCACTGAGGGAGGAGAGGCTTTCTTCTCGTAAGGAATGAC  
 TGTGTTAGATACTGTTTGTGAGTTCCTGAGGAGCCAAAGGCTGGCGGATGCCACTCTG  
 CAGAATGTTGGAGATGCCTTCCATGCTGAAGCGCTTGAGAGGCATCTGGTTTCCCTTCTC  
 TATCCGGCTGCTCTGCATGCTCAGTCTTCTCTATCCGACTCTTTTTCATCAGTATCG  
 CTGCTCCTTCTGCTTGTCTGAACCTCAATAAGCACCGTGATAAAGGAGGTGTTCACTTN  
 CTCTGAAACTGCAACTCGTNCCGGCGGCCAGCTGCTGCACCAACTACTCCGAGTAGTC  
 ACAGATGGCACCCCTCCACCTGGTCCATCAGCTCGGTGAGCTAAAACCCAGACATGTGCC  
 TCAGCCCTTATAAGACCAGTTGTTGTTGAAGGCTGGGCCATGACTGCATCTCCTGCAG  
 GAAGACCCGAACTGCCTGAGAGGAGGTCCTCCCATCCT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_005103

**Insert Size:**

1650 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_005103.3](#), [NP\\_005094.1](#)

**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]

Transcript Variant: This variant (1) encodes the full-length isoform (1), which has a longer C-terminal end compared to isoform 2.