

Product datasheet for **RG217477**

FEZ2 (NM_001042548) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FEZ2 (NM_001042548) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FEZ2
Synonyms:	HUM3CL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG217477 representing NM_001042548 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCGGACGGGACTGGCAGGATTTCTATGAGTTCCAGGAGCCGGCCGGAGCCTCCTGGACCAGG
AGAAGTGTAAACGCGAGCCCCGAGCCTGGGGCGGAGGCGGGGGCCGAGGCGGGTGGGGCGCCGACGGTTT
CCCGGCCCGGCCTGCAGCTTGGAGGAGAAGCTGAGCCTGTGCTCCGCCCTCGGATCCGGGCGCCGAG
CCCCGAGGACGGCCGTGCGGCCATCACGGAGCGCAGCCTCCTGCAGGGGACGAGATTTGGAATGCC
TGACAGATAATTATGGGAATGTGATGCCTGTAGACTGGAAGTCATCGCATACTAGGACCTTGCACTTGCT
TACTCTGAACCTCTCAGAAAAAGGGTAAGTGACAGTTTGTCTTTGATACATCAGATGATGAAGAGCTG
AGAGAACAGCTGGATATGCACTCAATCATCGTCTCCTGTGTTAATGATGAACCCCTTTCACGGCAGACC
AGGTTATTGAAGAAATGAAGAAATGATGCAGGAATCACCGGACCCAGAAGATGATGAAACCCCTACACA
GTCAGATCGGCTTTCAATGCTTTCCAGGAAATCAAACCTCAAGAGGTCTAGTACCGGACGTTATGAA
GAGAGAGTGAAGGCTCTCAGTGTCTGAGTTAAATGAAATCCTGGAAGAAATGAGACTGCCATTAAGG
AGTACTCTGAGGAGCTGGTGCAGCAGTTGGCTTACGAGATGAACTGGAGTTTGAAGGAAAGTGAAGAA
CAGCTTTATTTCTGTTCTTATTGAAGTGCAAAACAGAAAGAGCACAAGAAACAGCAAAAAAGAAA
AAGAACTAAAAATGGCAGCTCAGAAATGGGAAGATGAGAGAAGTCATATGCCCGGCACACGCTTCA
GCATGGAAGGGATCTCAAATGTCAATCAGAATGGCCTCCGCCACACCTTTGGAAATTCAGGTGGAGAGAA
ACAGTATTTGACTACAGTCATTCTTATGAGAAAAAACGGACACCGTCTGTTGAAGATCTTCAATA
TTAACAAAAATCTTCGTGCCATGAAGGAGGACAGTGAAAAAGTCCGAGCTTGTTAACTGATTATATTC
TGAAAGTTCTGTGCCTACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG217477 representing NM_001042548
Red=Cloning site Green=Tags(s)

MAADGDWQDFYEFQEPARSLLDQENCNASPEPGAEEAGGADGFPAPACSLLEKLSLCFRPSPDGAE
 PPRTAVRPITERSLLQGDEIWNALTDNYGNVMPVDWSSHTRTLHLLTLNLSEKGVSDSLLFDTSDDEEL
 REQLDMHSIIIVSCVNDEPLFTADQVIEEIEEMMQESPDPEDDETPTQSDRLSMLSQEIQTLKRSSTGSYE
 ERVKRLSVSELNEILEEIEETAIKEYSEELVQQLALRDELEFEKEVKNSFISVLIEVQNKQKEHKETAKKK
 KKLKNGSSQNGKNERSHMPGTRFSMEGINSVIQNLRHTFGNSGGKQYLTTVIPYEKNGPSPVEDLQI
 LTKILRAMKEDSEKVPSSLTDYILKVLCP

TRTRPLE - GFP Tag - V

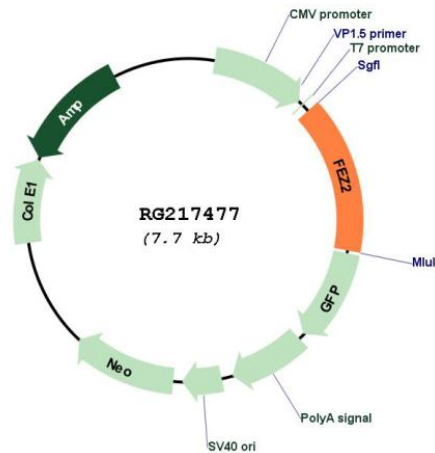
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001042548

ORF Size:	1140 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:	<ol style="list-style-type: none">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_001042548.2
RefSeq Size:	2110 bp
RefSeq ORF:	1143 bp
Locus ID:	9637
UniProt ID:	Q9UHY8
Cytogenetics:	2p22.2
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. Other orthologs include the rat gene that encodes zyglin II, which can bind to synaptotagmin. [provided by RefSeq, Jul 2008]