

## Product datasheet for **MG222210**

### Fezf1 (NM\_028462) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fezf1 (NM_028462) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fezf1
Synonyms:	3110069A13Rik; Fez; fez-like; Zfp312-like
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG222210 representing NM\_028462  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACAGTAGCTGCCTCAACGCGACCACCAAATGCTAGCGACTGCTCCAGCTCGGGGCAACGTGATGA  
 GCACATCTAAACCCTTGGCTTTCTCCATCGAACGAATCATGGCGCGCACCCCTGAGCCTAAGGCCCTGCC  
 GGTCCCCCACTTCTGCAGGGAGCCGTGCCAAAGGGGACCCCAAGCACTCTCTGCATCTCAACTCGTCG  
 ATCCCCTGCATGATCCCTTTCGTCGCCCGTGGCGTACGACACGAACTCAAAGCGGGAGTGAATGGCTCAG  
 AGCCCCGCAAGGCGAGTTTGGAGGTTCCGGCGCCCGCGGTGGCGCCCTCTGCGCCGGCTCAGCTG  
 CAGCGACTGCTCAACTGCGCGCTAAGTCTTAAGGGCGACCTGGCCCGGACGCATTGCCACTACAGCAG  
 TACAAGCTGGTAAGGCCGCGTGTGGTCAACCACCTTTCGTTTACGCCATGGGTGCCCTGTGCTACCTGA  
 ACCGAGGTGACGGCCCGTCCACCCGGTGCAGCGTGAACATCCACCCGGTGGCCTCTACTTTCTCAG  
 TTCCCCTTTCACCCACAGCCAAAACGTATTTAGCCGAAAGGAATAAACTGGTTGTACCGCGAGTGGAG  
 AAACCTCCCTTCGGGAGTAGCTTTCAAAGACCTGTCCAGGCTCAGCTGCAGCATTACATGAAAGAAAGCG  
 CCCAACTTTTGTGCGAAAAAATCGCTTTCAAACCTCGGATTTACAGCCGGGCTCTCAAATGCCAAGCC  
 CAAAGTTTCACTTGTGAAGTCTGCGGCAAGGTCTTAATGCGCACTATAACTTAACCCGTACATGCCG  
 GTACACACAGGAGCCAGACCCCTTCGTGTGTAAGTGTGTGGGAAAGGTTTCCGGCAAGCTAGCACCCCTT  
 GCCGGCATAAGATCATTACACACAGGAGAAACCTCACAAGTGAACAGTGGGTAAGCATTTAACAG  
 AAGTCCACGTTAAACACACATACCCGAATTCACGCGGGCTACAAACCATTTCGTGTGTGAATTCTGCGGC  
 AAAGGATTTTCATCAAAAAGGGAATTACAAAATCACAAGTTAACCACAGCGGGGAGAAACAGTTCAAGT  
 GCAATATCTGCAACAAGGCTTTCCACAGGTGTACAACCTCACCTCCACATGCACACTACAACAGCAA  
 GAAGCCTTTCACCTGCCACGTTGGCAAGGGCTTTTGTAGGAACTTTGACCTCAAGAAGCACGTCGCGC  
 AAGCTACACGACAGCAGCTGGGGCTGACCCGCACTCCTACTGGGGAGCCAAGCAGCGATCCGCCGCCCC  
 AGCTGCAACAGCCGCGCTGCGCCTCTGCCGCACTGCAGCCTACATTGCCGCCTCCCGGGCTCTGCC  
 ATCCGGGCTTACCAAGGCCACCAG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG222210 representing NM\_028462  
 Red=Cloning site Green=Tags(s)

MDSSCLNATTKMLATAPARGNMSTSKPLAFSIERIMARTPEPKALPVPHFLQGAVPKGDPKHSLSHLNSS  
 IPCMIPFVPVAYDTNSKAGVNGSEPRKASLEVPAPPVAPSAPAFSCDLLNLCALSLKGDLDALPLQQ  
 YKLVRPRVNVHSSFHAMGALCYLNRDGPCHPAASVNIHPVASYFLSSPLHPQPKTYLAERNKLVPAVE  
 KLPSPGVAFKDL SQAQLQHMYKESAQLLSEKIAFKTSDFSRGSNAKPKVFTCEVCGKVFNAHYNL TRHMP  
 VHTGARPFVCKVCGKFRQASTLCRHKI IHTQEKPHKCNQCGKAFNRSSLNTHTRI HAGYKPFVCEFCG  
 KGFHQKGNYNHKLTHSSEKQFKCNKAFHQVYNLTFMHMTHNDKPFPTCPTCGKGF CRNFDLKKHVR  
 KLHDSGLTRTPTGEPSSDPPPQLQPPAPLPLQPTLPPGGLPSGLHQGHQ

**TRTRPLE** – GFP Tag – V

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja2697\\_g10.zip](https://cdn.origene.com/chromatograms/ja2697_g10.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_028462

**ORF Size:** 1425 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_028462.1](#), [NP\\_082738.1](#)

RefSeq Size: 2308 bp

RefSeq ORF: 1428 bp

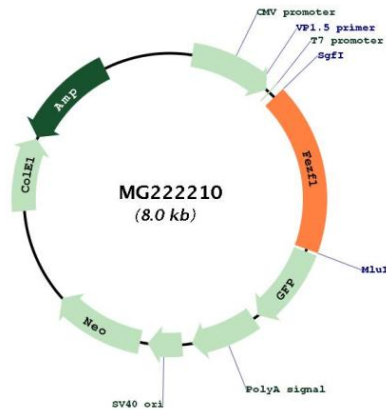
Locus ID: 73191

UniProt ID: [Q0VDQ9](#)

Cytogenetics: 6 A3.1

**Gene Summary:** Transcription repressor. Involved in the axonal projection and proper termination of olfactory sensory neurons (OSN). Plays a role in rostro-caudal patterning of the diencephalon and in prethalamic formation. Expression is required in OSN to cell-autonomously regulate OSN axon projections. Regulates non-cell-autonomously the layer formation of the olfactory bulb development and the interneurons. May be required for correct rostral migration of the interneuron progenitors.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG222210