

Product datasheet for **RG205231**

ZNF312 (FEZF2) (NM_018008) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF312 (FEZF2) (NM_018008) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZNF312
Synonyms:	FEZ; FEZL; FKSG36; TOF; ZFP312; ZNF312
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG205231 representing NM_018008
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCAAGCTCGGCTTCCCTGGAGACCATGGTGCCCCCGGCTGCCCGCGCGCCGGAGCGTCCGCGGCCA
 CTTCCAAGACTGCGCTTTTCCATCGAGCGCATCATGGCCAAGACGTCGGAGCCCCGTGCGCCCTTTGA
 GCCCGCGCTGGAGCGCTAGAGGCGGACGGCAGCCAGGGCAAGAACTGCTCAACCTCTGCTCGCCGCTG
 CCCTGTATGATCCCCCTCCAGCCCTTAGGCTACGAGGTGCCGTCAAAGACTGCTCAGTTACTCGGAGC
 TCTGGAAAAGCAGCCTCCGGGCGGGCGGCGGAGGCGGCGGCGGTGGCGGCGGGCGGGCGGGGG
 GGCCCCAGTGTGCGGCGCAGCGGCTTGTGCAAAACCACTGTGGCGTGTCTGCAAGGCCGAGCTGGGC
 CTGGCGCGTCCGCGCTGCCCGGGCAGGGTCATCAAGCCGAGGTATCAACCAGGCTGTGGGGCTGA
 CGGCCAGCGGCTCGCTCTACTACTTCAACTACCTGGACTCGACCGGTACCCGCCGTCTGAGCTCCTCAG
 CGGCCACCTCTCCCGTCTGGCCTCCTCAATGCGCAGGCCCGCCCGCTGGCTGCTCACCCAAAGCTC
 TTTCTGCTGGAGAACCCAAGCTGGCCGGCTGGCTGCGGACAAGTTCCCCACCCGGCTCCCTATCCCC
 ATAAGGAGCGCTTCCCGCGCCGCTGGAGCAGGTACTGAAGGAAAACCTGGGCCCTGACTGCCGAGCGCG
 AGGCGTCAAGGGCCACAGCAAGCTGCCAGGAGGCTCCGCAGATGGCAAGCCAAAACCTTCACTGCGAG
 GTGTGCGCAAGGTGTTAACGCTCACTATAATCTCACCCGCCACATGCCGGTCCACCCGGAGCCAGAC
 CGTTCTGTGTGCAAAGTCTGCGGCAAGGCTTTCGCCAGGCCAGCAGCTCTGCAAGCACAAAATTATCCA
 CACCCAGAAAAGCCACATAAATGCAACCAGTGGCGCAAAGCGTTCAACCCGAGCTCCACGCTCAACAG
 CATATCCGCATCCACGCGGGCTACAAGCCCTTCGCTGCGAATTTTGGCGCAAAGGCTTTCACCAAAAAG
 GGAACTACAAGAACCACAAGCTGACCCACAGCGGAGAAAGCAGTACAAATGTACCATCTGCAACAAGGC
 CTTCCACAGGTCTACAACCTAACCTTCCATATGCACACCACAACGACAAGAAGCCTTTCACGTGCGCC
 ACTTGGCGCAAAGGTTTTGAGAACTTTGACTTAAAGAAACATGTGCGCAAACCTCCACGACAGCGTGG
 GCCCTGCTGCCCCCTCCGCAAAGGACCTGACTAGGACAGTGCAGAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG205231 representing NM_018008
 Red=Cloning site Green=Tags(s)

MASSASLETMVPACPRAGASPATSKTLAFSIERIMAKTSEPRAPFEPRPGALEADGSQGKLLNLCSP
 PCMIPLQPLGYEVPSKTLTLYSELWKSSLRAGGGGGGGGGGGGGGAPVCGASGLCKTNCVCKAELG
 LAPSALPAGRVIKQVINQAVGLTASGSLYYFNLDSTAYPPSELLSGHLFPSGLLNAQAPAALAAHPKL
 FLEENAKLAGLAADKFPHPAPYPHKERLPAPLEQVLKENWALTAERGGVKGHSLKPGGSADGKPKNFCE
 VCGKVFNAHYNLTRHMPVHTGARPFVCKVCGKGFQASTLCRHKI IHTQEKPHKCNQCGKAFNRSSTLNT
 HIRIHAGYKPFVCEFCGKGFHQKGNYNHKLTHSGEKQYKCTICNKAFHQVYNYLTFMHMTHNDKPKPTCA
 TCGKGFRCRNFDLKHKVRLHDSVGAAPSAKDLTRTVQS

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_018008

ORF Size: 1377 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_018008.2](#), [NP_060478.2](#)

RefSeq Size: 1919 bp

RefSeq ORF: 1380 bp

Locus ID: 55079

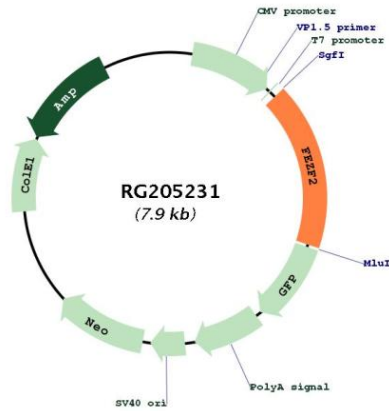
UniProt ID: [Q8TBJ5](#)

Cytogenetics: 3p14.2

Domains: zf-C2H2

Gene Summary: Transcription repressor. Required for the specification of corticospinal motor neurons and other subcerebral projection neurons. May play a role in layer and neuronal subtype-specific patterning of subcortical projections and axonal fasciculation. Controls the development of dendritic arborization and spines of large layer V pyramidal neurons. May be involved in innate immunity (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG205231