

Product datasheet for **RC205231**

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:	Myc-DDK
Symbol:	ZNF312
Synonyms:	FEZ; FEZL; FKSG36; TOF; ZFP312; ZNF312
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC205231 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCAAGCTCGGCTTCCCTGGAGACCATGGTGCCCCCGCCTGCCCGCGCGCCGGAGCGTCCGCGGCCA
 CTTCCAAGACTGCGCTTTTCCATCGAGCGCATCATGGCCAAGACGTGCGAGCCCCGTGCGCCCTTTGA
 GCCCGGCTGGAGCGCTAGAGGCGGACGGCAGCCAGGGCAAGAACTGCTCAACCTCTGCTCGCCGCTG
 CCCTGTATGATCCCCCTCAGCCCTTAGGCTACGAGGTGCCGTCAAAGACTGCTCAGTTACTCGGAGC
 TCTGGAAAAGCAGCCTCCGGGCGGGCGGGGAGGGCGGCGGGCGGTGGCGGCGGGCGGGGGG
 GGCCCCAGTGTGCGGCGCAGCGGCTTGTGCAAAACCAACTGTGGCGTGTCTGCAAGGCCGAGCTGGGC
 CTGGCGCGTCCGCGCTGCCCGGGCAGGGTCATCAAGCCGAGGTATCAACCAGGCTGTGGGGCTGA
 CGGCCAGCGGCTCGTCTACTACTTCAACTACCTGGACTCGACCCGCTACCCGCCGCTGAGCTCCTCAG
 CGGCCACCTCTCCCGTCTGGCCTCCTCAATGCGCAGGCCCGCCCGCCTGGCTGCTCACCCAAAGCTC
 TTTCTGCTGGAGAACCCAAGCTGGCCGGCCTGGCTGCGGACAAGTTCCCCACCCGGCTCCCTATCCCC
 ATAAGGAGCGCTTCCCGCGCCGCTGGAGCAGGTACTGAAGGAAAACCTGGGCCCTGACTGCCGAGCGCG
 AGGCGTCAAGGGCCACAGCAAGCTGCCAGGAGGCTCCGCAGATGGCAAGCCAAAACCTTACCTGCGAG
 GTGTGCGCAAGGTGTTAACGCTCACTATAATCTCACCCGCCACATGCCGGTCCACCCGGAGCCAGAC
 CGTTCTGTGTGCAAAGTCTGCGGCAAGGCTTTCGCGAGCCAGCAGCTCTGCAGGCACAAAATTATCCA
 CACCCAGAAAAGCCACATAAATGCAACCAGTGGCGCAAAGCGTTCAACCCGAGCTCCACGCTCAACAG
 CATATCCGCATCCACGCGGGCTACAAGCCCTTCGCTGCGAATTTTGGCGCAAAGGCTTTCACCAAAAAG
 GGACTACAAGAACCACAAGCTGACCCACAGCGCGGAGAAGCAGTACAAAATGTACCATGCAACAAGGC
 CTTCCACAGGTCTACAACCTAACCTTCCATATGCACACCACAACGACAAGAAGCCTTTACGTCGCGCC
 ACTTGGCGCAAAGGTTTTGAGAACTTTGACTTAAAGAAACATGTGCGCAAACCTCCACGACAGCGTGG
 GCCCTGCTGCCCCCTCCGCAAAGGACCTGACTAGGACAGTGCAGAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC205231 protein sequence
 Red=Cloning site Green=Tags(s)

MASSASLETMVPPACPRAGASPATSKTLAFSIERIMAKTSEPRAPFEPRPGALEADGSQGKLLNLCSP
 PCMIPLQPLGYEVPSKTLTLYSELWKSSLRAGGGGGGGGGGGGGGAPVCGASGLCKTNCVCKAELG
 LAPSALPAGRVIKPQVINQAVGLTASGSLYFFNYLDSTAYPPSELLSGHLFPSGLLNAQAPAALAAHPK
 LLENAKLAGLAADKFPHPAPYPHKERLPAPLEQVLKENWALTAERGGVKGHSLKPGGSADGKPKNFCE
 VCGKVFNAHYNLTRHMPVHTGARPFVCKVCGKFRQASTLCRHKI IHTQEKPHKCNQCCKAFNRSSLNT
 HIRIHAGYKPFVCEFCGKGFHQKGNYNHKLTHSGEKQYKCTICNKAFHQVYNLTFHMHTHNDKPKFTCA
 TCGKGFRCRNFDLKHKHVRKLDHDSVGAAPSAKDLTRTVQS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6269_h11.zip

Restriction Sites:

Sgfl-Mlul

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: 2095 bp

RefSeq ORF: 1380 bp

Locus ID: 55079

UniProt ID: [Q8TBJ5](#)

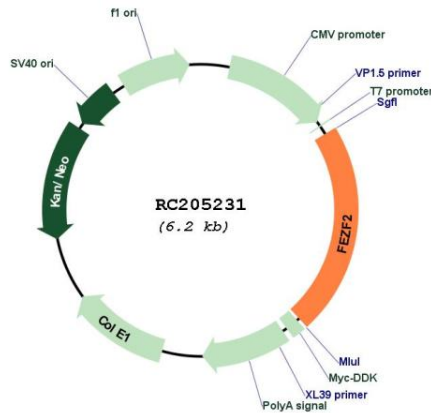
Cytogenetics: 3p14.2

Domains: zf-C2H2

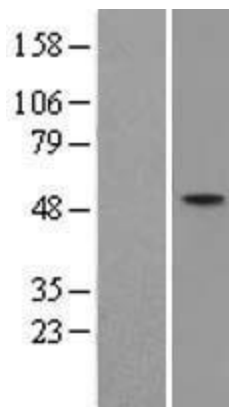
MW: 48.9 kDa

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 RC205231



Western blot validation of overexpression lysate (Cat# [LY413342]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205231 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).