

Product datasheet for **RC229234**

ZNF312B (FEZF1) (NM_001024613) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF312B (FEZF1) (NM_001024613) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZNF312B
Synonyms:	FEZ; HH22; ZNF312B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC229234 representing NM_001024613
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACAGTAGCTGCCACAACGCGACTACCAAAATGTTAGCGACTGCTCCAGCTCGGGGCAACATGATGA
 GCACGTCCAAACCTTGGCTTTCTCCATTGAACGAATCATGGCGCGCACCCAGAGCCCAAGGCCCTGCC
 AGTCCCCCACTTCTGCAGGGAGCCTTACCCAAGGGGAAACCAAGCACTCTCTGCATCTCAACTCGTCG
 ATCCCCTGCATGATCCCCTTCGTGCCTGTGGCCTACGACACGAGCCCAAGGCAGGAGTGACGGGCTCCG
 AGCCGCGGAAGGCCAGTCTGGAGGCCCGCGCGCCCGCGGGTGCCTCGGCTCCCGCATTAGCTG
 CAGCGACTGCTCAACTGCGCACTGAGTCTCAAGGGCGACCTGGCCCGGACGCGCTGCCGCTGCAGCAG
 TACAAGCTGGTAAGGCCGCTGTGGTCAACCACCTTTCATTCCACGCCATGGGCGCCTTGCTACCTGA
 ACCGAGGTGACGGCCATGCCACCCGGCAGCCGGCTGAACATCCACCCGGTGGCCTCTACTTCTCAG
 TTCCCCTTGCACCCGACCCAAAACGTATTTAGCCGAAAGGAATAAAGTGGTGGTCCCGCGGGTGGAG
 AAATACCTTCTGGAGTAGCTTTCAAAGACCTGTCCAGGCTCAGCTGCAGCATTACATGAAAGAAAGCG
 CCCAGTCTGTGCGAAAAAATCGGTTCAAACCTCGGATTTACGCCGAGGCTCTCCTAATGCCAAGCC
 CAAAGTTTCACTTGCGAAGTGTGTGAAAGGTCTTAATGCGCACTATAACTTAACCCGTACATGCCA
 GTGCACACAGGAGCCAGACCTTCGTTTCAAAGTGTGCGGAAAAGGTTTCAGGCAAGCAAGCACCTGT
 GCAGGCACAAGATCATTACACGCGAGGAAAAACCTCACAAATGTAACCAGTGTGGCAAAGCATTTAATAG
 AAGTTCACCTTTAAACACTCATACCCGAATACACGCGGGCTACAAACCGTTTGTGTGTGAATTCTGTGGC
 AAAGGGTTTCATCAAAAAGGGAATTACAAAACCAAGTTGACCCACAGCGGGGAGAAGCAGTTCAAGT
 GCAATATCTGCAACAAGGCTTTCCACCAGTTTACAACCTCACCTCCACATGCACACCCACAACGCAAA
 GAAGCCTTTACCTGCCACGTGCGGCAAGGGTTTCTGCAGGAACTTTGACCTCAAGAAGCATGTCCGC
 AAGCTGCACGACAGCAGCTGGGGCTGGCCCGCAGCCAGCTGGCGAACCAGGCACTGAACCGCCGCCCC
 CGCTACCGCAGCAGCCCGGATGACGCTGCCTCTCTGCAGCCGCGCTGCCAACCCGGGGCCCTGCA
 GCCCGGGCTCCACCAGGGCCACCAG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC229234 representing NM_001024613
 Red=Cloning site Green=Tags(s)

MDSSCHNATTKMLATAPARGNMSTSKPLAFSIERIMARTPEPKALPVPHFLLQALPKGEPKHSLSLHNS
 IPCMIPFVVPVAYDTSKAGVTGSEPRKASLEAPAAPAAPSAPAFSCDLLNCALSLKGDLDALPLQQ
 YKLVRRVNVHSSFHAMGALCYLNRGDGCPHAAGVNIHPVASYFLSSPLHPQPKTYLAERNKLVPAVE
 KYPGVAFKDLSQAQLQHMYKESQLLSEKIAFKTSDFSRGSPNAKPKVFTCEVCGKVFNAHYNLTRHMP
 VHTGARPFVCKVCGKFRQASTLCRHKI IHTQEKPKNQCGKAFNRSSLTNTHTRIHAQYKPFVCEFCG
 KGFHQKGNYNHKLTHSGEKQFKCNICNAFHQVYNLTFMHMTHNDKPFPTCPTCGKGFERNFDLKKHVR
 KLHDSGLARTPAGEPTEPPPLPQQPPMTLPPLQPPLPTPGPLQPGLHQGHQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8062_d08.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001024613

ORF Size: 1425 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_001024613.4](#)

RefSeq ORF: 1428 bp

Locus ID: 389549

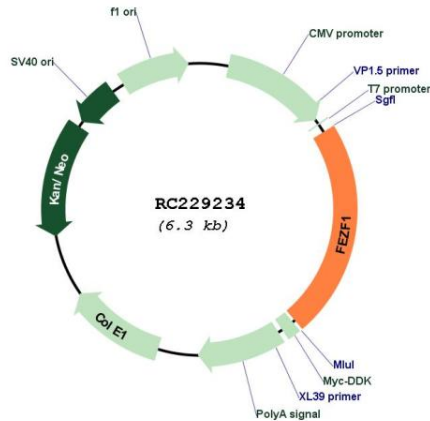
UniProt ID: [A0PJY2](#)

Cytogenetics: 7q31.32

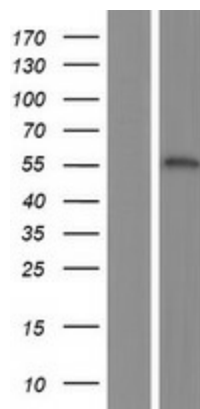
MW: 51.9 kDa

Gene Summary:

This gene encodes a transcriptional repressor that belongs to the zinc finger double domain protein family. The encoded protein is thought to play a role in the embryonic migration of gonadotropin-releasing hormone neurons into the brain. Mutations in this gene are associated with hypogonadotropic hypogonadism-22 with anosmia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]

Product images:


Circular map for RC229234



Western blot validation of overexpression lysate (Cat# [LY432254]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC229234 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).