

## Product datasheet for **RC226521**

### ZNF732 (NM\_001137608) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF732 (NM_001137608) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZNF732
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC226521 ORF sequence, **codon optimized**.  
 Due to the complexity of NM\_001137608, the ORF clone is codon optimized for mammalian Expression.  
 The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGCTGTTGACGTTCCGCGACGTCGCCATAGAATTCAGCCCAGGAAGAATGAAATGCCTTGACCCTG  
 CCCAGCAGAATCTTTACAGGGACGTTATGCTCGAAAATATCGGAATCTGATTAGTCTGGGAGTGGCGAT  
 CAGCAACCCTGATCTGGTGATCTATCTCGAGCAGCGCAAAGAGCCCTACAAGGTGAAAATCCACGAAACC  
 GTTGCCAAAGCACCTGCAGTCTGCTCTCATTTCACACAGGATTTTTTCCGGTCCAGGGTATAGAAGATA  
 GTTTCCACAAACTTATTCTGAGGCGCTATGAAAAGTGTGGACATGAGAATCTCGAGCTGAGGAAATCCTG  
 CAAACGCAAGGTCCAGAAGGGAGGATACAATGAGTTCAATCAGTGTGTTGAGCACCATACAAAGTAAAT  
 TTTTCAGTGCAATGTACACGTAAGGTGTTTTCTACCTTCAGCAACTCAAATCAGAGAAGGATTAGGCATA  
 CTGGCGAAAAGCACTTTAAAGAAATGTGGAAGAGCTTTTCAGAAAATTTCCGATCTGACACAGCATCAAGG  
 CATTTCATGCTGGCGAAAACCATACACTGCGAAGAGTGTGGAAAGACTTCAAGTGGTACCTGATTTTC  
 AATGAGTACGAGATTATACACTGGTAAAAGCCCTTCACTTGTGAAGAATGTGGAACATTTTCACTA  
 CCAGCTCAAATTTTGCAAAGCACAAAGTCCACACCGGGGAAAAAGCTACAAGTACGAGGAATGTGGAA  
 GGCCTTTAATCGCAGCAGCACTCTGACTAAACACAAAAGGATACACGCCGAGGAGAAGCCATTTACATGC  
 GAAGAGTGTGGAAGATCATCACCTCTCTCCAACGTCGCTAAGCACAAAGAAGATACATACTGGTGAAA  
 AGCTGTATAAGTGCCAGGAGTGCAGGCAAAGTTTTAATCGGTCCACAACACTCACAAAACATAATCGCAT  
 CCATACAGGCGAAAAGCCATACACATGCGAGGAATGTGGAAGGCCTTCTCTAGGTCCAGTGTCTGAAC  
 GAGCACAAACGAATCCATACAGGTGAGAAGCCCTACAAATGCGAGCAGTGTGGCAAGGCATTCCGGCAGA  
 GTGCTACTCTTAATAACACAAAATCCATACACTGGGGAGAAGCCGTACACATGCGAGGAGTGCAGGAA  
 AGCATTCTCCCGTTTACAACACTCAACGAGCATAAAAGGATCCACACCGGAGAAGCAGCCCCACAAATGC  
 GAGGAGTGTGGGAAGGCCTTTGGCTGGTCTACAGATCTCAATAAACACAAGATAATCCATACCGGCGAAA  
 AACCATATAAGTGTGAGGAATGCGGAAAAGCATTGGATGGTCTGCTTACCTGAGCAAGCACAAAGAT  
 ACATACCGGTGAAAAGCCCTATAGATGCGAAGAATGCGGGAAGGCCTTTCTGTGCAGCCGAGCCCTAAT  
 AAGCACAAAGCCATACATACAGGCGAGAAGCCATACGAATGCGAAGAGTGCAGTAAAGCCTTCGGTTGGT  
 CTACATATCTCTCAAACACAAGAAGATTACACCGGCGAGAAACCGTATAGATGTGAGGAATGCGGCAA  
 AGCCTTTCCGGCGAGTCCGGTCTTGAACAAGTACAAGACCATTACACGGGAGATAAAACGCCTAAGTGC  
 AAAGGATGCGGGAAGGCCTTTAAATGGTCCAGTTATCTGAACCAGCACAAATAAGATTTACACAGGAGAAA  
 AGCTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC226521 representing NM\_001137608  
Red=Cloning site Green=Tags(s)

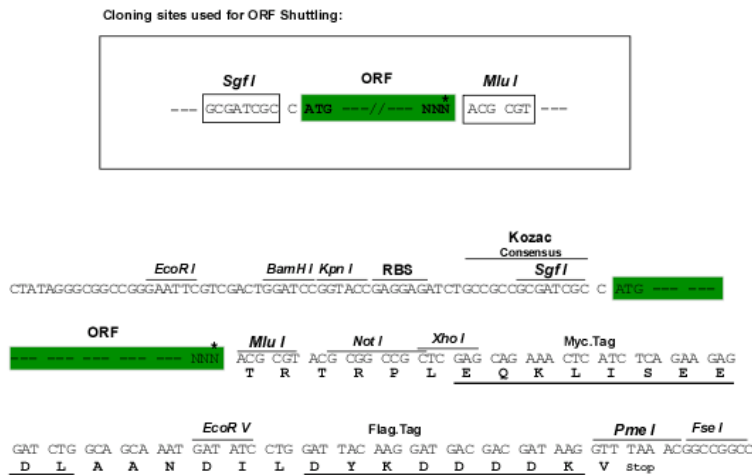
MELLTFRDVAIEFSPEEWKCLDPAQQNL YRDVMLENYRNLI SLGVAISNPDLVIYLEQRKEPYKVKIHET  
 VAKHPAVCSHFTQDFLPVQGIEDSFHKLILRRYEKCGHENLELRKSCRKRVQGGYNEFNQCLSTIQSKI  
 FQCNVHVKVFSTFSNSNQRRIRHTGEKHFKECGKSFQKFSDLTQHQGIHAGEKPYTCEECGKDFKWLIF  
 NEYEIIHTGEKPFTECECGNIFTSSNF AKHKVHTGEKSYKYECCGAFNRSSTLTKHKRIHAEKPFTE  
 EECGKIIITSSNVAKHKKIHTGEKLYKCQECGVFNRSSTLTKHNRIHTGEKPYTCEECGKAFSRSSVLN  
 EHKRIHTGEKPYKCEQCCKAFRQSATLNKHKSIHTGEKPYTCEECGKAFSRFTTLNEHKRIHTGERPHKC  
 EECGKAFGWSTDLNKHKIHTGEKPYKCEECGKAFGWSAYLSKHKKIHTGEKPYRCEECGKAFKALCSRALN  
 KHKTIHTGEKPYECECGKAFGWSTYLSKHKKIHTGEKPYRCEECGKAFRRSRVLNKYKTIHTGDKTPKC  
 KGCGKAFKWSSYLNQHNKIYTGEKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001137608

**ORF Size:** 1755 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\\_001137608.1](#), [NP\\_001131080.1](#)

**RefSeq Size:** 2341 bp

**RefSeq ORF:** 1758 bp

**Locus ID:** 654254

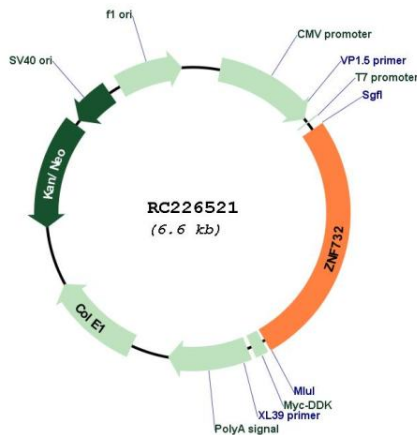
**UniProt ID:** [B4DXR9](#)

**Cytogenetics:** 4p16.3

**MW:** 67.8 kDa

**Gene Summary:** This gene encodes a kruppel-associated box-containing zinc finger protein (KRAB-ZFP). The encoded protein contains an N-terminal kruppel-associated box (KRAB) domain and sixteen C-terminal C2H2-type zinc finger domains. The KRAB-ZFPs represent the largest family of mammalian transcriptional repressors, which function through the recruitment of the nuclear co-factor KRAB-Associated Protein 1 (KAP1), to engage histone modifiers and induce heterochromatin formation. [provided by RefSeq, Jul 2017]

### Product images:



Circular map for RC226521