

## Product datasheet for RC217612

### ZFP106 (ZNF106) (NM\_022473) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ZFP106 (ZNF106) (NM_022473) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZFP106
Synonyms:	SH3BP3; ZFP106; ZNF474
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC217612 representing NM_022473 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCAGTGGGGAGAATTGAATGTCCCTCATCTCCCTCTTTCCCTAGGGACATTAGTCATGAGTGCCGAG  
TGTGCGGGGTCACAGAAGTGGGTCTTTCTGCATATGCAAAGCACATTTCTGGCCAGTTGCACAAAGATAA  
CGTTGATGCCAGGAAAGAGAAGATGATGGAAAAGGAGAGGAAGGAAGAAGATTATTTTGACAAGGAA  
CTCATTAGTTAATAAAACAAAGGAAAGAAACAAAGTCGACAAGATGAACCTTCCAATAGCAACCAAGAAA  
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AACAAAGCCCACTGTGGAAGATAACCATGGTCCTTACATATCCAAACTGCGTAGTTCATGTCCCTCATGTTT  
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
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**Protein Sequence:**

>RC217612 representing NM\_022473  
 Red=Cloning site Green=Tags(s)

MPVGRIECPSSPSFPRDISHECRVCGVTEVGLSAYAKHISGQLHKDNVDAQEREDDGKGEEEEDYFDKE  
 LIQLIKQRKEQSRQDEPSNSNQEINSDDRRPQWRREDRIPYQDRESYSQPAWHHRGPPQRDWKWEKDFN  
 NTRKNSFPHSLRNGGPRGRSGWHKGVAGGSSTWFHNHNSGGGWL SNSGAVDWNHNGTGRNSSLWSEGT  
 GGFSSWHMNSNGNWKSSVRSTNNWNSGPGDKFQPNRNRNSNCQMEDMTMLWNKSNKSNKYSHDRYNW  
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 AELQKSDISQPSGPLLPEL SKLGFPAQLRDL TRHISLKSKTGVHLPEPNLNSARRIRNISGHRKSETEK  
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 DQPEQQAESTL TSAETRGSKKKKLRKKKSLRAAHVPENSDEQDVL TVKPVRKVKAGLIKGGKVTST  
 WEDSRTGREQESVRDEPDSDSLEVLIPNPQLEVVAIDSESSEGEKPDSPSKDIWNSTEQNPLETSRS  
 GCDEVSSSTSEIGTRYKDGIPVVAETQTVISSIKGSKNSSEISSEPGDDDEPTEGSFEGHQAAVNAIQIF  
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 QLQLEDRLVCLHSRWIRLYAGLANGTVVTFNIKNNKRLIFECHGPRAVSLATAQEGARKLLVVGSYDC  
 TISVRDARNGLLRRTLEGHSKTILCMKVNDLVFSGSSDQSVHAHNIHTGELVRIYKGNHNAVTVVNIILG  
 KVMVTACLDKFVRVYELQSHDRQLQVYGGHKDMIMCMTIHKSMIYTGCDYGSIQAVRLNLMQNYRCWWHGC  
 SLIFGVVDHLKQHLLTDHTNPNFQTLKCRWKNCAFFTARKGSKQDAAGHIERHAEDDSKIDS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8119\\_c01.zip](https://cdn.origene.com/chromatograms/mk8119_c01.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_022473

**ORF Size:** 5649 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\\_022473.3](#)

**RefSeq Size:** 10890 bp

**RefSeq ORF:** 5652 bp

**Locus ID:** 64397

**UniProt ID:** [Q9H2Y7](#)

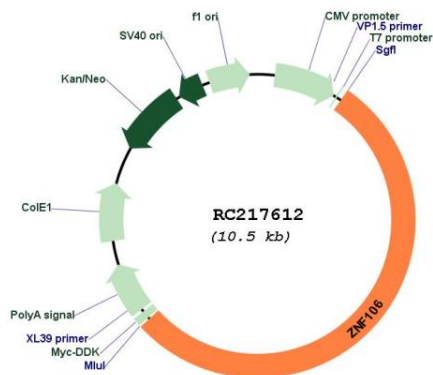
**Cytogenetics:** 15q15.1

**Domains:** WD40, zf-C2H2

**MW:** 209.3 kDa

**Gene Summary:** RNA-binding protein. Specifically binds to 5'-GGGGCC-3' sequence repeats in RNA. Essential for maintenance of peripheral motor neuron and skeletal muscle function. Required for normal expression and/or alternative splicing of a number of genes in spinal cord and skeletal muscle, including the neurite outgrowth inhibitor RTN4. Also contributes to normal mitochondrial respiratory function in motor neurons, via an unknown mechanism. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RC217612