

Product datasheet for **RG217612**

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:	TurboGFP
Symbol:	ZFP106
Synonyms:	SH3BP3; ZFP106; ZNF474
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG217612 representing NM_022473 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCAGTGGGGAGAATTGAATGTCCCTCATCTCCCTCTTCCCTAGGGACATTAGTCATGAGTGCCGAG
TGTGCGGGGTCACAGAAGTGGTCTTTCTGCATATGCAAAGCACATTTCTGGCCAGTTGCACAAAGATAA
CGTTGATGCCAGGAAAGAGAAGATGATGGAAAAGGAGAGGAAGGAAGAAGATTATTTTGACAAGGAA
CTCATTAGTTAATAAAACAAAGGAAAGAAACAAAGTCGACAAGATGAACCTTCCAATAGCAACCAAGAAA
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AACAAAGCCCACTGTGGAAGATAACCATGGTCCTTACATATCCAAACTGCGTAGTTCATGTCCCTCATGTTT
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 TGCAGGACATATTGAACGACATGCTGAAGATGACAGCAAAATTGATTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG217612 representing NM_022473

Red=Cloning site Green=Tags(s)

MPVGRIECPSSPSFPRDISHECRVCGVTEVGLSAYAKHISGQLHKDNVDAQEREDDGKGEEDDYDFDKE
 LIQLIKQRKEQSRQDEPSNSNQEINSDDRRPQWRREDRIPYQDRESYSQPAWHHRGPPQRDWKWEKDFN
 NTRKNSFPHSLRNGGPRGRSGWHKGVAGGSSTWFHNSNSGGGWL SNSGAVDWNHNGTGRNSSLSEGT
 GGFSSWHMNSNGNWKSSVRSTNNWNYSGPGDKFQPGRNRNSNCQMEDMTMLWNKSNKSNKYSHDRYNW
 QRQENDKLGTVATYRGPSEGFTSDKFPSEGLLDFNFEQLESQTTKQADTATSKVSGKNGSAAAREKPRRW
 PYPYQKTLDLQSLKIDITGNKSEMIKPLFDFSLITTTGIQEPQDETRNSPTQKTQKEIHTGSLNHKASS
 DSAASFEVVRQCPTAEKPEQEHTPNKMPSLKSPLLPCPATKSLSQKQDPKNI SKNTKTNFFSPGEHSNPS
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 AELQKSDISQPSGPLLPEL SKLGFPAQLRDLTRHISLKSKTGVHLPEPNLSARRIRNISGHRKSETEK
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 PAPDSSVQIKQEPMSPEQDENVNAVPPSSACNVSKELLEANREISDSCPYPVITARLSLPESTESFHEP
 SQELKFSVEQRNTRNRENSPSSQSAGLSSINKEGEEPTKNGSGSEACTSSFLRSLFASSETPLEKEPHSPA
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 GCDEVSSSTSEIGTRYKDGIPVVAETQTVISSIKGSKNSSEISSEPGDDDEPTEGSFEGHQAAVNAIQIF
 GNLLYTCSADKTVRVYNLVSRCIGVFEGHTSKVNCLLVTQTSKNAALYTSSDHTIRCYNVKSRECV
 QLQLEDRLVCLHSRWIRLYAGLANGTVVTFNIKNNKRLIEFEGHPPRAVSLATAQEGARKLLVVGSYDC
 TISVRDARNGLLRLTLEGHSKTILCMKVNDLVFSGSSDQSVHAHNIHTGELVRIYKGNHNAVTVVNIILG
 KVMVTAACLDFVRYELQSHDRLQVYGGHKDMIMCMTIHKSMIYTGCDGSIQAVRLNLMQNYRCWWHG
 SLIFGVVDHLKQHLLTDHTNPNFQTLKCRWKNCDAFFTARKGSKQDAAGHIERHAEDDSKIDS

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_022473

ORF Size: 10887 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 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: 10487 bp

RefSeq ORF: 5652 bp

Locus ID: 64397

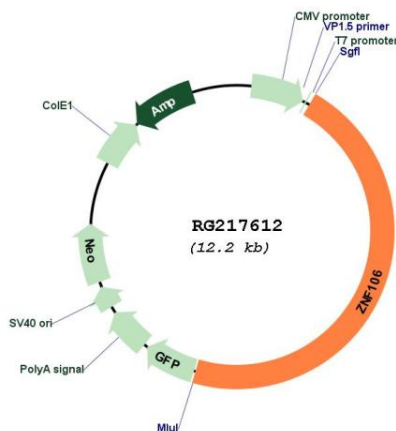
UniProt ID: [Q9H2Y7](#)

Cytogenetics: 15q15.1

Domains: WD40, zf-C2H2

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 RG217612