

## Product datasheet for **SC337873**

### ZFP106 (ZNF106) (NM\_001284307) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ZFP106 (ZNF106) (NM_001284307) Human Untagged Clone
Tag:	Tag Free
Symbol:	ZNF106
Synonyms:	SH3BP3; ZFP106; ZNF474
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001284307, the custom clone sequence may differ by one or more nucleotides

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ATGGTACGAGAACGAAAATGCATATTATGCCACATCGTGTACAGCTCAAAAAAGGAGATGGACGAACACA
TGGCGAGCATGTTGCATCACAGGAACTTGAGAACCTCAAGGGCAGGTTTGGCATAGAAATGGTACCCCT
TGTTCAAATGAACAAGAAGCCTTAGATTTGGATGGGAACTGATCTGTCCAGTCTAGAAGGATCCAG
TGGGAAGGTGTTCCATTTCTCGTCCCCTGGCTTGGCAAGAAAGCAAGCCTTTCTGAGAGCAGCGTGA
TCATGGACAGAGCTCCTTCTGTGTATAGCTTCTCAGTGAGGAAGGTACAGGCAAAGAAAATGAGCCCCA
GCAGATGGTTTCCCTAGTAACCTATTGAGGGCTGGACAGAGCCAGAAAGCAACCATGCACCTCAAACAA
GAAGTGACACCTCGGGCTGCCTCCCTCCGAACAGGTGAAAGGGCTGAAAATGTTGCTACCCAAAGGCGAC
ATAGTGACACAATTATCCTCTGACCATATAATACCTTTGATGCATTTGGCAAAGACTTGAACAGCCAGGA
GAGGTCTATACCACCGTCAGAGAATCAGAATCCAGGAGAGTAATGGAGAGGAAAAGTGTCTGTATCA
AGCGCATCCTCAGCCCTTGCATCTCCAGTTTAGCGGATGCAGCCACAGATAGTAGCTGTACCTCTGGTG
CTGAACAAAATGATGGCCAAAGTATTAGAAAGAAACGAAGAGCCACTGGAGATGGATCTTCTCCTGAACT
CCCAAGTCTTGAGAGAAAAAATAAAGAAGGAAAATTAAGGAAAAAAGAAGCTTCTCAGGTTGACCAG
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CACCAAGCTCTGCCTGCAATGTGTCCAAGGAATTACTGGAAGCTAATAGAGAGATCAGTGACAGTTGTCC
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GAACTGAAGTTTTCTGTGGACAAAGAAAATACCAGAAACAGAGAAAACCTCTCCCTCTTCCCAATCAGCTG
GTCTTTTAGCATAAATAAAGAAGGGGAAGAGCCAACCAAGGCAATAGTGGGTCTGAAGCCTGTACCAG

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TTCTTTTCTAAGATTGTCTTTTGTTCAGAAACCCCTTTGGAGAAGGAACCCCACTCTCCAGCTGACCAG
CCTGAACAACAGGCAGAAATCCACTTTGACATCAGCTGAGACTAGGGGAAGCAAGAAAAAGAAACTCC
GGAAGAAGAAAAGTCTACGGGCTGCCATGTTCTGAGAATAGTGACACTGAACAGGATGTTTTGACTGT
TAAACCTGTAAGGAAAGTAAAAGCTGGAAGTTAATTAAGGGGGGAAAGTAACAACCTCCACTTGGGAA
GACAGCAGGACTGGTCGGGAGCAGGAGAGTGTGAGAGATGAGCCAGATAGTGACTCGTCTCTGGAAGTCC
TAGAAATTCCTAATCCTCAGTTAGAAGTAGTAGCCATTGATTCTTCAGAATCAGGAGAAGAGAAACCAGA
CAGCCCATCTAAAAGGATATTTGGAACCTACAGAGCAAAACCCACTAGAAACGTCTCGTTCTGGGTGT
GATGAAGTTAGCTCTACCAGTGAATTTGGCACTCGCTATAAAGATGGCATTCCCTGTAAGTGTGGCAGAAA
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TTACACCCGGTCCAGTGACCATACCATCCGCTGCTATAATGTTAAGAGCCGAGAGTGTGTGGAGCAGTTA
CAGCTGGAAGACCGGGTCTCTGCCTCCACAGTAGATGGCGAATCCTCTATGCGGGACTGGCAAATGGCA
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ATGGTGACTGCTGCCTGGATAAATTTGTTTCGTGTCTATGAATTACAGTCTCATGATCGATTACAAGTTT
ATGGAGGACACAAAGACATGATTATGTGTATGACCATCCATAAAGCATGATTTACACTGGCTGTTATGA
TGGCAGTATTCAGGCCGTGAGGCTTAATCTGATGCAGAATTACCGCTGTTGGTGGCATGGTTGCTCTCTG
ATATTTGGCGTTGTAGATCATTTAAAACAACACTTGCTGACCCACACTAATCCCAACTCCAGACTC
TGAAATGTCGCTGGAAGAACTGCGATGCTTTTTTCACTGCTAGGAAGGATCCAACAGGATGCTGCAGG
ACATATTGAACGACATGCTGAAGATGACAGCAAAATTGATTCA TGA
    
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- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001284307
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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\\_001284307.1](#), [NP\\_001271236.1](#)
- RefSeq Size:** 8462 bp
- RefSeq ORF:** 3336 bp
- Locus ID:** 64397

UniProt ID: [Q9H2Y7](#)

Cytogenetics: 15q15.1

**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]  
Transcript Variant: This variant (3) differs in the 5' UTR, lacks a portion of the 5' coding region and contains multiple alternate 5' coding exons, compared to variant 1. It represents use of an alternate promoter and initiates translation at an alternate start codon. The encoded isoform (3) is shorter and has a distinct N-terminus, compared to isoform 1.