

## Product datasheet for **SC116418**

### MIPEP (NM\_005932) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MIPEP (NM_005932) Human Untagged Clone
Tag:	Tag Free
Symbol:	MIPEP
Synonyms:	COXPD31; HMIP; MIP
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC116418 sequence for NM\_005932 edited (data generated by NextGen Sequencing)

```
ATGCTGTGCGTCGGAAGGCTGGGCGGCTTGGGAGCCAGAGCAGCAGCTCTGCCGCCCGC
CGGGCGGGCCGGGAAGCCTCGAAGCCGGGATCCGGGCCCGAAGGGTCAGCACCAGCTGG
TCTCCCGTGGGCGCCGCCTTCAATGTCAAGCCCAGGGCAGCCGCTTGGACCTGTTCCGG
GAGCGCCGGGGTCTTTTTGGAGTTCCTGAGCTGAGTGCCCCAGAAGGATTCATATTGCA
CAAGAAAAAGCCTTGAGAAAGACAGAATTGCTTGTGGACCGTGCATGTTCCACCCACCT
GGGCCCCAGACCGTGTGATCTTCGATGAGCTCTCGGATTCCTTATGCAGAGTGGCCGAC
TTGGCTGATTTTGTGAAAATCGCTCACCCCTGAGCCAGCATTTCAGAGAAGCTGCGGAAGAA
GCTTGTAGAAGTATTGGCACCATGGTAGAGAAGTTGAACACAAATGTGGATTTATATCAA
AGTTTGCAAAAATTAAGTGTGATAAAAACTTGTGGATTCCTTGTATCCAGAAACAAGG
CGAGTGGTGAAGTGTATGTTGATTTTGAATTAGTGAATCCATCTAGACAAAGAA
AAGCGTAAAGAGCAGTGGACCTCAATGTTAAATCTTGGATTTGAGTAGTACATTTCTT
ATGGGAACCAATTTTCCAACAAGATTGAGAAGCATCTTACCAGAACACATTCGTCGT
AACTTTACATCTGCTGGGATCATATCATAATTGATGGTCTCCACGCAGAATCACCAGAT
GACTTGGTGCAGAAAGCTGCTTATAAAATTTTTCTTTATCCCAATGCTGGTCAATTGAAA
TGTTTAGAAGAATTGCTCAGCAGCAGAGATCTTCTGGCAAAGTTGGTGGGGTATTCCACG
TTTTCTCACAGGGCTCTCCAAGGAACGATAGCTAAAAATCCAGAGACTGTCATGCAGTTC
CTTGAAAACTATCTGACAACTTTCTGAAAGAACTCTGAAAGATTTTGAGATGATACGA
GGGATGAAAAAGAACTGAATCTCAAAATTCGAAGTAAATGCCCTGGGACCCCTTAC
TACAGTGGTGTGATTCGTGCAGAAAGGTATAATATTGAGCCAGCCTATATTGCCCGTTT
TTCTCTTGGAGCATGCATGGAAGGCCTGAATATTTGCTTAAACAGACTGTTGGGGATT
TCATTATATGCAGAGCAGCCTGCAAAAGGAGAGGTGGAGCGAAGATGTCCGAAAACTG
GCTGTTGTTTCATGAATCTGAAGGATTGTTGGGGTACATTTACTGTGATTTTTTTTCAGCGA
GCAGACAAACCACATCAGGATTGCCATTTCACTATCCGTGGAGGCAGACTAAAGGAAGAT
GGAGACTATCAACTCCCAGTTGTAGTTCTTATGCTGAATCTTCCCGTTCCTCAAGGAGT
TCTCCAATTTGCTAACTCCTGGCATGATGGAAAATCTTTTCCATGAAATGGGACATGCC
ATGCATTCATGCTAGGACGTAAGTACCAACACGTCAGTGGGACCAGGTGCCCTACT
GATTTTGTGAGGTTCTTCTATTTCTGATGGAGTACTTTGCAAATGATTATCGAGTAGTT
AACCAATTTGCCAGACATTATCAGACTGGACAGCCACTGCCAAAAATATGGTGTCTCGT
CTTTGTGAATCTAAAAAGGTTTGTGCTGCAGCTGATATGCAACTCAGGTCTTTTATGCC
ACTCTGGATCAAATCTACCATGGGAAGCATCCCCTGAGGAATTCACCACAGACATTCTC
AAGGAAACACAAGAGAAATTTCTATGGCCTACCATATGTTCCAAATACTGCCTGGCAGCTG
CGATTACGCCACCTCGTGGGGTATGGTGCTAGATTAATCTTACCTCATGTCCAGAGCG
GTCGCCTCCATGGTTTGGGAAGGAGTGTCTTACAGGATCCTTTCAACAGGGCTGCCGGG
GAGCGCTATCGCAGGGAGATGCTGGCCACGGTGGAGGCAGGGAGCCCATGCTCATGGTT
GAAGGTATGCTTCAGAAGTGTCTTCTGTTGATGACTTCGTAAGTGCCTCGTTCCGAC
TTGGATCTGGACTTCGAAACTTTCTCATGGATTCTGAATAA
```

Clone variation with respect to NM\_005932.3

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_005932 unedited  
 TTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGTTGGAGGAAGGGAC  
 TGCTCTGGTGCTAGAATGCTGTGCGTCGGAAGGCTGGGCGGCTTTGGGAGCCAGAGCAGCA  
 GCTCTGCCGCCCCGCCGGGCGGGCCGGGAAGCCTCGAAGCCGGGATCCGGGCCCGAAGG  
 GTCAGCACCAGCTGGTCTCCCGTGGGCGCCGCCTCAATGTCAAGCCCCAGGGCAGCCGC  
 TTGGACCTGTTCCGGCAGCGCCGGGTCTTTTTGGAGTTCCTGAGCTGAGTGCCCCAGAA  
 GGATTTCAATATGCACAAGAAAAAGCCTTGAGAAAAGACAGAATTGCTTGTGGACCTGCA  
 TGTTCCACCCACCTGNGCCCCAGACCGTGCTGATCTTCGATGAGCTCTCGGATTCTTA  
 TGCAGAGTGGCCGACTTGCTGATTTTTGTGAAAATCGCTCACCCCTGAGCCAGCATTTCAGA  
 GAAGCTGCGGAAGAAGCTTGTAGAAGTATTGGCACCATGGTAGAGAAGTTGAACACAAAT  
 GTGGATTATATCANAGTTTGCAAAAATACTAGCTGATAAAAAACTTGTGGATTCCCTT  
 GATCCAGAAAACAAGGCGAGTGGCTGAAACTGTTATGTTTGTATTTGAAATTAGTGGGATC  
 CATCTAGACCAAGAAAGCGTAAAGAGCAGTGGACCTCAATGTAATCTGGNATTTGAGT  
 AGTACATTTCTTATGGGGACCAATTTCCCAACAGATNGAGAAGCATCTTACCAGAC  
 CACATTCGCCGTAACCTTACATCTGCTGGGGATCATATCATAATTGATGGTCTCCACGCA  
 AAATCACCGATGACTTGTGCGAAGAGCTGCTTATTAATTTTCTTACCAATGCTGGT  
 CAATTGAATG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_005932 unedited  
 ACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
 TTTTTTTAAAAAAAACAATTTTATTTCCAAGTCTACCAGTTTAAAGTTTTTTCAGAA  
 TTACAGAAGCGAACCAATGAAATCAGAAACAAGCTCTCACAGCTGTAGCATTTATAACAAA  
 GTCATTATCTACATGACCTTGATTTAAAAGGGTAAAGGGTTTTTTTTTATTCAAAATCCA  
 TGAGGAAAGTTTCGAAGTCCAAATCCAAGTCGGAACGAGGGCAGCTTACGAAGTCATCAA  
 CAGAAGGACACTTTTGAAGCATACCTTCAACCATGAGCATGGGCTCCCTGCCTCCACCGG  
 GGGCCAGCATCTCCCTGCGATAGCGCTCCCCGGCAGCCCTGTTGAAAGGATCCTGTAAAA  
 AACACTCCTTCCAAACCATGGAGGCGACCGCTCTGGACATGAGGTAAGAGTAATATCTAG  
 CACCATAACCCACGAGGGGGCTGAATCGCAGCTGCCAGGCAGTATTTGGAACATATGGTA  
 GGCCATAAAAATTTCTCTTGTGTTTCTTTGAAAATGTCTGGGGGTGAATTCCTCAGGGGAT  
 GCTTCCCATGGTAGATTTGATCCAGAGTGGCATAAAAAGACCTGGAGTTGCATATCAACTG  
 CAGCACAAACCTTTTTAGATTCCAAAGACGAGACACCATTTTTTTTTGACGGGGCTGTCCA  
 GTCTGATAATGCCTGGCAAAATGGTAAACTACCCGAAAATCATTGCAAAGTCTCCATC  
 AGAATAAAAGAACCCTACAATATCANTATGCCCTTGGCCACCGGACGGTTGGAACGAG  
 ACCCCCTACCTTGAAGCCTGGGTGTCCATTTATGGAAAGATTTTCCCTTGGCCGGAATAA  
 CAAAGTGGAAACACCTGAGGAAGGGN

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_005932

**Insert Size:**

2500 bp

**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\\_005932.1](#), [NP\\_005923.1](#)

**RefSeq Size:** 2392 bp

**RefSeq ORF:** 2142 bp

**Locus ID:** 4285

**UniProt ID:** [Q99797](#)

**Cytogenetics:** 13q12.12

**Domains:** Peptidase\_M3

**Protein Families:** Druggable Genome, Protease

**Gene Summary:** The product of this gene performs the final step in processing a specific class of nuclear-encoded proteins targeted to the mitochondrial matrix or inner membrane. This protein is primarily involved in the maturation of oxidative phosphorylation (OXPHOS)-related proteins. This gene may contribute to the functional effects of frataxin deficiency and the clinical manifestations of Friedreich ataxia. [provided by RefSeq, Jul 2008]