

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
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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Fully Sequenced ORF: >OriGene ORF within SC116418 sequence for NM_005932 edited (data generated by NextGen Sequencing)

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ATGCTGTGCGTCGGAAGGCTGGGCGGCTTGGGAGCCAGAGCAGCAGCTCTGCCGCCCCGC
CGGGCGGGCCGGGAAGCCTCGAAGCCGGGATCCGGGCCCGAAGGGTCAGCACCAGCTGG
TCTCCCGTGGGCGCCGCCTTCAATGTCAAGCCCAGGGCAGCCGCTTGGACCTGTTCCGGC
GAGCGCCGGGGTCTTTTTGGAGTTCCTGAGCTGAGTGCCCCAGAAGGATTTTCATATTGCA
CAAGAAAAAGCCTTGAGAAAGACAGAATTGCTTGTGGACCGTGCATGTTCCACCCACCT
GGGCCCCAGACCGTGTGATCTTCGATGAGCTCTCGGATTCCTTATGCAGAGTGGCCGAC
TTGGCTGATTTTTGTGAAAATCGCTCACCCCTGAGCCAGCATTTCAGAGAAGCTGCGGAAGAA
GCTTGTAGAAGTATTGGCACCATGGTAGAGAAGTTGAACACAAATGTGGATTTATATCAA
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CGAGTGGCTGAAGTGTATGTTGATTTTGAATTAGTGAATCCATCTAGACAAAGAA
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GCTGTTGTTTCATGAATCTGAAGGATTGTTGGGGTACATTTACTGTGATTTTTTTTCAGCGA
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TCTCCAACTTTGCTAACTCCTGGCATGATGGAAAATCTTTTCCATGAAATGGGACATGCC
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AACCAATTTGCCAGACATTATCAGACTGGACAGCCACTGCCAAAAATATGGTGTCTCGT
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ACTCTGGATCAAATCTACCATGGGAAGCATCCCCTGAGGAATTCACCACAGACATTCTC
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CGATTACGCCACCTCGTGGGGTATGGTGCTAGATTAAGTCTTACCTCATGTCCAGAGCG
GTCGCCTCCATGGTTTGGGAAGGAGTGTCTTACAGGATCCTTTCAACAGGGCTGCCGGG
GAGCGCTATCGCAGGGAGATGCTGGCCACGGTGGAGGCAGGGAGCCATGCTCATGGTT
GAAGGTATGCTTCAGAAGTGTCTTCTGTTGATGACTTCGTAAGTGCCTCGTTCCGAC
TTGGATCTGGACTTCGAAACTTTCTCATGGATTCTGAATAA
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Clone variation with respect to NM_005932.3

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_005932 unedited TTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGTTGGAGGAAGGGAC TGCTCTGGTGCTAGAATGCTGTGCGTCGGAAGGCTGGGCGGCTTTGGGAGCCAGAGCAGCA GCTCTGCCGCCCCCGGGCGGGCCGGGAAGCCTCGAAGCCGGGATCCGGGCCCGAAGG GTCAGCACCAGCTGGTCTCCCGTGGGCGCCGCCTCAATGTCAAGCCCCAGGGCAGCCGC TTGGACCTGTTTCGGCGAGCGCCGGGTCTTTTTGGAGTTCCTGAGCTGAGTGCCCCAGAA GGATTTCAATTGCACAAGAAAAAGCCTTGAGAAAGACAGAATTGCTTGTGGACCTGCA TGTTCCACCCACCTGNGCCCCAGACCGTGCTGATCTTCGATGAGCTCTCGGATTCTTA TGCAGAGTGGCCGACTTGCTGATTTTGTGAAAATCGCTCACCCCTGAGCCAGCATTTCAGA GAAGCTGCGGAAGAAGCTTGTAGAAGTATTGGCACCATGGTAGAGAAGTTGAACACAAAT GTGGATTATATCANAGTTTGCAAAAATACTAGCTGATAAAAAACTTGTGGATTCCCTT GATCCAGAAACAAGGCGAGTGGCTGAAACTGTTATGTTTGTATTTGAAATTAGTGGGATC CATCTAGACCAAGAAAGCGTAAAGAGCAGTGGACCTCAATGTAATCTGGNATTTGAGT AGTACATTTCTTATGGGGACCAATTTCCCAACAGATNGAGAAGCATCTTACCAGAC CACATTCGCCGTAACCTTACATCTGCTGGGGATCATATCATAATTGATGGTCTCCACGCA AAATCACCGATGACTTGTGCGAAGAGCTGCTTATTAATTTTCTTACCAATGCTGGT CAATTGAATG
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_005932 unedited ACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTTTAAAAAAAACAATTTTATTTCCAAGTTCTACCAGTTTAAAGTTTTTTCAGAA TTACAGAAGCGAACAATGAAATCAGAAACAAGCTCTCACAGCTGTAGCATTTATAACAAA GTCATTATCTACATGACCTTGATTTAAAAGGGTAAAGGGTTTTTTTTTATTCAAAATCCA TGAGGAAAGTTTCGAAGTCCAAATCCAAGTCGGAACGAGGGCAGCTTACGAAGTCATCAA CAGAAGGACACTTTTGAAGCATACCTTCAACCATGAGCATGGGCTCCCTGCCTCCACCGG GGGCCAGCATCTCCCTGCGATAGCGCTCCCCGGCAGCCCTGTTGAAAGGATCCTGTAAAA AACACTCCTTCCAAACCATGGAGGCGACCGCTCTGGACATGAGGTAAGAGTAATATCTAG CACCATAACCCACGAGGGGGCTGAATCGCAGCTGCCAGGCAGTATTTGGAACATATGGTA GGCCATAAAAATTTCTCTTGTGTTTCTTGAATAATGCTGGGGGTGAATTCCTCAGGGGAT GCTTCCCATGGTAGATTTGATCCAGAGTGGCATAAAAAGACCTGGAGTTGCATATCAACTG CAGCACAAACCTTTTTAGATTCCAAGACGAGACACCATTTTTTTTTGACAGGGGCTGTCCA GTCTGATAATGCCTGGCAAAATGGTAAACTACCCGAAAATCATTGCAAAGTCTCCATC AGAATAAAAGAACCCTACAATATCANTATGCCCTTGGCCACCGGACGGTTGGAACGAG ACCCCTACCTTGAAGCCTGGGTGTCCATTTATGGAAAGATTTTCCCTTGGCCGGAATAA CAAAGTGGAACACCTGAGGAAGGGN
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).
RefSeq:	<u>NM_005932.1</u> , <u>NP_005923.1</u>
RefSeq Size:	2392 bp
RefSeq ORF:	2142 bp
Locus ID:	4285

UniProt ID: [Q99797](#)

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]