

Product datasheet for **SC111692**

C10orf88 (NM_024942) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C10orf88 (NM_024942) Human Untagged Clone
Tag:	Tag Free
Symbol:	C10orf88
Synonyms:	PAAT
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC111692 sequence for NM_024942 edited (data generated by NextGen Sequencing)

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ATGGAGACGCGGACCGAGGACGGGGGCCTACCCGCCGCCACGCTGGNNCNTCTTGG
GATGTTGCAGGCGGGCCCTGACCCACAGCCTCCTCCTCACCCGGCCGGTCTCGGCCCC
GGTGACTTCGACTGGGAGGAGCTGCTGGCACCGCTGCTCCAGGTCAGGATCTGGTGATT
TTGAAGAGAAACCACAACAACAAGATGAAAACCCCTGCTTCTTTACCTGAGGTGTGGC
CCTGATGGAGGTGAAGAAATCGCTTCTATTGGCATTTTAAGTTCAGCAAGAAATATGGAA
GTGTACTTAGGAGAGGAGTACTGTGGAACCAAGTGGGGCAAGAATGTTTGTACTGCCTG
GATGACAGTGAACATGAAAAGATCATTTTGTATAAAAAAATCTAAAATTGGAGTCTCC
ACACATGCTTGTAAAATAAAGTTGCTCTCCTTTGGCGAAAGGCAGTGTGTGTTTCAGT
AAAGTTGTGGTACACATGAGATCAGTTTTTGCAAATTTCTCAACAAGCTCTCCTGCTCTA
GGATCAAGGATAGACCTTGACAAGGTCCAAACCATAATGGAGTCCATGGGGTCAAAGTTA
TCTCCTGGAGCTCAGCAGTTGATGGATATGGTTAGGTGTCAGCAGCGGAATTGATTCCC
ATTGGAGAGCAGCTTCAGTCGGTGTGGGCAATTTCTGGATACAAGCATATGATTGGACTA
CAATCCTCATCTACCTTAGGAACCTTAAACAAGTCGCTCCACACCTTTTCTTTTAGA
ACTGGATTGACATCTGGGAACGTGACTGAAAACCTACAAAATTACATTGATAAAAGTACA
CAACTGCCTGGTGGAGAGAATTCTACCAAGCTTGATGAGTGTAAAGTTATGCCTCAAAC
CATTCTTTCTTGGAAATGATCTTAAAAATGCAATGGCCTCTTTCTTACCAAAGGAAGTA
AGTGACAACCTCAAATATACCCAACCTCCGAGTTGCTGCCTTTTCTCCAGAAATTTATGAGT
CAAGTTAATCATCTCCATGTGGGAAATAAGACCGAGTGTGAGGAAACATCACCAGCAT
GGTGAACGCATTTCTGGTGTGGAAATGGAAGAGCAATCTATTTGCTCCTACTTGGAAAAG
ATCTTTCTAAAAATATGGAAGTATGGAAGGAAACTTATGGATTACATTGATCAGCGA
ATACATGAACTCCAGGAGCACATTTGATGATAAGATTGCTTTGTTACTGGATTTGCTGCAA
AATCCTAACTCCCGCCCACTGGGATACCTCTAAGACATTATGACTCTGGAGAAAGACTT
TCAAATGGAGAAAGATAA

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Clone variation with respect to NM_024942.3
 50 c=>n;51 c=>n;52 t=>n;54 t=>n;955 a=>g

5' Read Nucleotide Sequence: >OriGene 5' read for NM_024942 unedited

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ATTTTGAATACGACTCACTATAGGGCGCCGCGAATTCGGCACGAGGCTGGCCTGACTG
AAGGCGGCGGAATGGAGACGCGGACCGAGGACGGGGGCCTACCCGCCGCCACGCTGG
CCTCTTCTGGGATGTTGCAGGCGGGCCCTGACCCACAGCCTCCTCCTCACCCGGGCCG
GTCTCGGCCCCGGTGACTTCGACTGGGAGGAGCTGCTGGCACCGCTGCTCCAGGTCAGG
ATCTGGTGATTTTGAAGAGAAACCACAACAACAAGATGAAAACCCCTGCTTCTTTACC
TGAGGTGTGGCCCTGATGGAGGTGAAGAAATCGCTTCTATTGGCATTTTAAGTTCAGCAA
GAAATATGGAAGTGTACTTAGGAGAGGAGTACTGTGGAACCAAGTGGGGCAAGAATGTTT
GTACTGTCTGGATGACAGTGAACATGAAAAGATCATTTTGTATAAAAAAATCTAAAAT
TGGAGTCTCCACACATGCTTGTAAAATAAAGTTGCTCTCCTTTGGCGAAAGGCAGTGTG
TGTTTCAGTAAAGTTGTGGTACACATGAGATCAGTTTTTGCAAATTTCTCAACAAGCT
CTCCTGCTCTAGGATCAAGGATAGACCTTGACAAGGTCCAAACCATAATGGAGTCCATGG
GGTCAAAGTTATCTCCTGGAGCTCAGCAGTTGATGGATATGGTTTAGGTGTCAGCAGCGG
AATTGTATTTCCATTGGAGAGCAGCTTTCAGTCGGGTGTGGGCATTNCTGGATACCAGCA
TATGATTGGACTACAATNCTCATCTACCTTNAAGACNTAAACAGTCGCTCCACACTT
TTCTTTTAAACTGGNATGACATCTGGGAACGTGACTGAAC

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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_024942 unedited TAGAGTCGAGTTTTTTTTTTTTTTTTTTTTCCAGACAGGTGCATTTATTTTTATATGCAAA TATATCACCCCTTCAATGCATATACAATAGTTATAAGGTCTGAAAACCTAAGTCTATCAGAG AGAATTGCAATCCCTTGACTCATATGTGTTTCATCCTTCCATGGAGAGCCTCATTATTTCA TACAATAAACATGCCAGAAAAGGATTCTGGGGAAAAAACCTGTATCAGCTCAAAGGAGA GGTTTTCTTAACTGTCTGGGGTTACTGAGGTCAAACAAGATGACTGCATCTGTTTTACA GGAAAAATCAAATCCAAAGTACTAATCGTAACAAGGACTAGGCTAGTTCTGATGTTTACT TTCTTACCTACAGCTACTCTGTAATGAAACAAATAATATTAACAACCCAGAGTGAACCT AAGTTACACATGCCAAATATCACATCTTATTATTATCTCACACAAGCAATACAAAATGT AACTGGTAATCTGAAGTAAAGGCTCCAAGTCTTAAGTATCCAATTTTCCAAGATAATTA GAAAAAGAAAAAATCAAATACTCTTAAGCATTATTTTTCATACTTCTAAGACTATAAGA TCCTTGATAAAATAAATATCCTTAACACATATCCATACAACTAATGAAGTGTATTAGA ATCCTCAGCATTTAACTCTAACACAAATTACATACATTCTGTAGACTGAAAAAATCGGG AGCAAAAATAATTGACTGTTTCATATTACTCAGGGTACAGACTGATTAATAAACAGTGTAT AAAACGAAACTGAGGCCTTGGGTAGACATGATCCTCAAGGACATAAATACTGCTTTTAA ATATTTTGGGTTTGCCTTGAAAAATGAATAAATCTGCGCACTGTATGTGAAGCTACTT CTCATTGAAGCTTTTCAAGCTATGTTTAAAGTATCATGGCGGNATTAGATTGACAATCGA CAAGATTTTATCAGGCCTGAATATGATCCGAAAGAAACAAGTTTTT
Restriction Sites:	NotI-NotI
ACCN:	NM_024942
Insert Size:	2290 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:	<ol style="list-style-type: none"> 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:	<u>NM_024942.1</u> , <u>NP_079218.1</u>
RefSeq Size:	2336 bp
RefSeq ORF:	1338 bp
Locus ID:	80007
UniProt ID:	<u>Q9H8K7</u>
Cytogenetics:	10q26.13

Gene Summary:

ATPase that regulates mitochondrial ABC transporters ABCB7, ABCB8/MITOSUR and ABCB10 (PubMed:25063848). Regulates mitochondrial ferric concentration and heme biosynthesis and plays a role in the maintenance of mitochondrial homeostasis and cell survival (PubMed:25063848).[UniProtKB/Swiss-Prot Function]