

Product datasheet for **SC110195**

ATP dependent metalloprotease YME1L1 (YME1L1) (NM_014263) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP dependent metalloprotease YME1L1 (YME1L1) (NM_014263) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATP dependent metalloprotease YME1L1
Synonyms:	FTSH; MEG4; OPA11; PAMP; YME1L
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF within SC110195 sequence for NM_014263 edited (data generated by NextGen Sequencing)

```

ATGTTTTCTTGTGCGAGCACGGTGCAACCCAGGTTACAGTTCCTCTGAGTCATCTCATC
AATGCCTTCCATACACCAAAAAACACTTCTGTTTCTCTCAGTGGAGTGTGAGTTTCTCAA
AACCAGCATCGAGATGTAGTTCCTGAGCATGAGGCTCCCAGCAGTGAGCCTTACATTAAC
TTAAGGGACCTTGGATTATCTGAACTAAAAATTGGACAGATTGATCAGCTGGTAGAAAAAT
CTACTTCTGGATTTTGTAAAGGCAAAAAACATTTCTTCCCATTGGCATAACATCCCATGTC
TCTGCACAATCCTTCTTTGAAAAATAAATATGGTAACTTAGATATATTTAGTACATTACGT
TCCTCTTGCTTGTATCGACATCATTCAAGAGCTCTTCAAAGCATTGTTCAGATCTTCAG
TACTGGCCAGTTTTTCATACAGTCTCGGGTTTTTAAAACTTTGAAATCAAGGACACGACGT
CTCCAGTCTACCTCCGAGAGATTAGCTGAAACACAGAATATAGCGCCATCATTGCGAAG
GGGTTTTCTTTGCGGGACAGAGGATCAGATGTTGAGAGTTGGACAAACTCATGAAAACC
AAAAATATACYTGAAGCTACCAAGATGCATTTAAAACTGGTTTTGCGGAAGTTTTCTG
AAAGCTCAAGCACTCACAAAAAACCAATGATCCCTAAGGCGAACCCGCTGATTCTC
TTCGTTCTGCTGCTATTCCGGCATTATGGACTTCTAAAAACCCATTTTTATCTGTCCGC
TTCCGGACAACAACAGGGCTTGATTCTGCAGTAGATCCTGTCCAGATGAAAAATGTCACC
TTTGAACATGTTAAAGGGTGGAGGAAGCTAAACAAGAATTACAGGAAAGTTGTTGAATTC
TTGAAAAATCCACAAAAATTTACTATTCTTGGAGGTAACCTTCCAAAAGGAATCTTTTA
GTTGGACCCCAAGGACTGGAAAGACACTTCTTCCCGAGCTGTGGCGGGAAGCTGAT
GTTCTTTTTTATTGCTTCTGGATCCGAATTTGATGAGATGTTTGTGGGTGTGGGAGCC
AGCCGATCAGAAATCTTTTTAGGGAAGCAAAGGCGAATGCTCCTTGTGTATATTTATT
GATGAATTAGATTCTGTTGGTGGGAAGAGAATTGAATCTCCAATGCATCCATATCAAGG
CAGACCATAAATCAACTTCTTGGTGAATGGATGGTTTTAAACCAATGAAGGAGTTATC
ATAATAGGAGCCACAACTTCCCAGAGGCATTAGATAATGCCTTAATACGTCCTGGTCGT
TTTGACATGCAAGTTACAGTTCCAAGGCCAGATGTAAAAGGTGCAACAGAAATTTGAAA
TGGTATCTCAATAAAATAAAGTTTGATCAATCCGTTGATCCAGAAATTATAGYTCGAGGT
ACTGTTGGCTTTTCCGGAGCAGAGTTGGAGAATCTTGTGAACCAGGCTGCATTAAGCA
GCTGTTGATGGAAGAAATGGTTACCATGAAGGAGCTGGAGTTTTCCAAAGACAAAATT
CTAATGGGGCCTGAAAGAAGAAGTGTGGAAATTGATAACAAAAACAAAACCATCACAGCA
TATCATGAATCTGGTCATGCCATTATTGCATATTACACAAAAGATGCAATGCCTATCAAC
AAAGCTACAATCATGCCACGGGGCCAACACTTGGACATGTGCCCTGTTACCTGAGAAT
GACAGATGGAATGAACTAGAGCCAGCTGCTTGACAAAATGGATGTTAGTATGGGAGGA
AGAGTGGCAGAGGAGCTTATATTTGGAACCGACCATATTACAACAGGTGCTTCCAGTGAT
TTTGATAATGCCACTAAAATAGCAAAGCGGATGGTTACCAAATTTGGAATGAGTGAAAAG
CTTGGAGTTATGACCTACAGTGATACAGGGAACTAAGTCCAGAAACCAATCTGCCATC
GAACAAGAAATAAGAATCCTTCTAAGGGACTCATATGAACGAGCAAAACATATCTTGAAA
ACTCATGCAAAGGAGCATAAGAATCTCGCAGAAGCTTTATTGACCTATGAGACTTTGGAT
GCCAAAGAGATTCAAATTGTTCTTGAGGGGAAAAAGTTGGAAGTGAGATGA

```

Clone variation with respect to NM_014263.2
611 c=>y;1433 c=>y

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_014263 unedited CAGCATTTTGTAAATCAGACTACTATAGGGCGGCCGCGCATTTCGGCACGAGGGGCAACG GGTCCGAGAAAAAGAAAAAGAGGGCTCAGCGCTCCCCCGGGCCGTGGACAGAGGG GCACAGTTTCGGCAGGCGGGTGAGGTCGCTGAGGGCCCGCGGAGATGTTTTCTTGTCG AGCACGGTGCAACCCAGGTTACAGTTCCTCTGAGTCATCTCATCAATGCCTCCATACA CAAAAAACACTTCTGTTTTCTCTCAGTGGAGTGCAGTTTCTCAAACCAGCATCGAGAT GTAGTTCCTGAGCATGAGGCTCCAGCAGTGCAGCTTCACTTAACTTAAGGGACCTTGA TTATCTGAACTAAAAATTGGACAGATTGATCAGCTGGTAGAAAACTACTTCCTGGATTT TGTAAGGCAAAAAACATTTCTTCCATTGGCATACATCCCATGTCTCTGCACAATCCTTC TTTGAAAATAAATATGGTAACTTAGATATATTTAGTACATTACGTTCTCTTGCTTGAT CGACATCATTCAAGAGCTCTTCAAAGCATTGTTGAGTCTTCACTACTGGCCAGTTCTC ATACAGTCTCGGNGTTTAAACTTTGAAATCAAGGACACGAGTCTCCATTCTACCTCC GAGAGATTACCTGAAACACAGAATATAGCGCCATCTTCGTAAGGGGTTCTTTTGGCG GACAAAGGATCAGATGTTGAGAGTTCGGACACACTCATGAAAACCACCATATACTGAAG CTCACCAAGAGCATTTAANACTGGTTTGGGAAAGGTTTCTGAAAGCCACCCCTTACCC AAANACCATTGATTCCTTAAAGGCAACCCGTGTGAATCTCTCCGTTTGCTGTTATCCGGAT TTTTGGACTCTCAANAACCCATTCTTCCCTTGCCGCTTC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_014263 unedited CGGGCCGAATCTAGAATCGAGTTTTTTTTTTTTTTTTTTTTGGGGACTGAGATTTTTGTTT AATTTTGCTTTTGAACCAAGCACAGTTATAGTCAAAATGAGGGACATTATTCAGAATGA GGTATGTATTTATTTAACAAAATACTGCTTCTCTGAAGTACATTTTCATTAGGGAGAGTG ACAGTAATGCTAAAAAAGAACATGAAAATGCACACAGCATTTCTGAAAGGGTATAATA ATTTATTTAATTTTTTTTTGAGACAGAGTCTCACTCTGTCAACCAAGCTGGAGTGCAGTG GCTCCTGTGATCTTGGCTCACTGCAACCTCCACCTCCTGGGTTCAAGCAATTCCTGTGCC TCAGCCTCTCAAGTAGCTGGGATTCAGGCATGCACCCACACCTGGCTATTTTTTTTTG TATTTAAATTTATTTAATTTTTTTTTGAGGCAGAGTCTGTCTGTTGCCCAAGCTGGA GTGCAGTGGCATGATCTCAGTCACTGCAACCTCCATCTCCAGGCTCAAGCAATTCCTCC TGCCTTGGCCCCAGAGTAGCTGGGATTATAAGCACCTGCCACCATGCCAGGTAATTTT TGCATGTTTAGTAGAGATGGGGTTTACCATGTTGGCCAAGCTGGTCTCAAACCTTGAC CTCANGTATTTGCCCGCTTGGCTCTGAAAGTGTGGGATACAGGCGTGAGCAACCCG GCCCAGCCCTATTTTTTTGATTTTAGTAGAGACAGCCGTTACACGTTGGCCAAGCTGG TCTCGAACTCCTGGCCTCAAGCCATCCACCCGCTCAGCCTCAAAGTGTGGGATTAC AGATGGGAGCCATGCCCTGCCCAAAGGCTATTTCTGGCTCTGAGTTTCCAAGACTGC TTTAATCCCACTCTTACATTAGATTAATAAATTTTATCATTGGCAATCGGAACAATTA CTGCTCCTAGTCCN</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_014263
Insert Size:	3080 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_014263.2](#), [NP_055078.1](#)

RefSeq Size: 3865 bp

RefSeq ORF: 2151 bp

Locus ID: 10730

UniProt ID: [Q96TA2](#)

Cytogenetics: 10p12.1

Domains: Peptidase_M41, AAA, AAA

Protein Families: Druggable Genome, Protease

Gene Summary: The protein encoded by this gene is the human ortholog of yeast mitochondrial AAA metalloprotease, Yme1p. It is localized in the mitochondria and can functionally complement a yme1 disruptant yeast strain. It is proposed that this gene plays a role in mitochondrial protein metabolism and could be involved in mitochondrial pathologies. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]

Transcript Variant: This variant (3) lacks an internal coding exon compared to transcript variant 1. However, it maintains the same reading frame, and encodes an isoform (3) that is missing a 57 aa segment compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.