

Product datasheet for **SC108204**

ATP dependent metalloprotease YME1L1 (YME1L1) (NM_139313) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP dependent metalloprotease YME1L1 (YME1L1) (NM_139313) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATP dependent metalloprotease YME1L1
Synonyms:	FTSH, MEG4, PAMP, YME1L
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_139313, the custom clone sequence may differ by one or more nucleotides

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ATGTTTTCTTGTGCGAGCAGGTGCAACCCAGGTTACAGTTCCTCTGAGTCATCTCATCAATGCCTTCC
ATACACCAAAAAACACTTCTGTTTTCTCAGTGGAGTGCAGTTTCTCAAAACCAGCATCGAGATGTAGT
TCCTGAGCATGAGGCTCCAGCAGTGTATGTTTCAGTGACTCCTGACGAAGCTTAACATTGTTTCA
ATTGGCAAAGGAAAAATATTGAAAGGGTACAGATCCATGTTTCATGGAGCCAGCAAAAAGGATGAAGAAGA
GCTTGGACACAACCGATAACTGGCACATCCGTCCAGAACCCTTCTCCCTCTCAATCCCTCCTTCACTTAA
CTTAAGGGACCTTGGATTATCTGAACTAAAAATTGGACAGATTGATCAGCTGGTAGAAAACTACTTCTCT
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AAAATAAATATGGTAACTTAGATATATTTAGTACATTACGTTCTCTTGTGTTGATCGACATCATTCAAG
AGCTCTTCAAAGCATTGTTTCAGATCTCAGTACTGGCCAGTTTTCATACAGTCTCGGGGTTTTAAACT
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CAAAAATATACCTGAAGCTCACCAAGATGCATTTAAAACCTGGTTTTGCGGAAGGTTTTCTGAAAGCTCAA
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GAAGTGTGAAATGATAACAAAAACAAAACCATCACAGCATATCATGAATCTGGTCATGCCATTATTGC
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GTGTCCCTGTTACCTGAGAAATGACAGATGGAATGAAACTAGAGCCAGCTGCTTGACAAAATGGATGTTA
GTATGGGAGGAAGAGTGGCAGAGGAGCTTATATTTGGAACCGACCATATTACAACAGGTGCTTCCAGTGA
TTTTGATAATGCCACTAAAATAGCAAAGCGGATGGTTACCAAATTTGGAATGAGTGAAAAGCTTGGAGTT
ATGACCTACAGTGATACAGGGAAACTAAGTCCAGAAACCAATCTGCCATCGAACAGAAATAAGAAATCC
TTCTAAGGGACTCATATGAACGAGCAAAACATATCTTGAACACTCATTCTTGA
    
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_139313 unedited</p> <pre>GGGGGTTCAAATTTTGTATACGACTCACTATAGGCGGCCGCAATTCGGCACGAGGGGAG GCCATTTTCCGTTTCTGGGAGGAGTGAGGGGCAACGGGTCCGAGAAAAAGGAAAAAGAA GGGCTCAGCGCCTCCCGCCGGGCGGTGGACAGAGGGGCACAGTTTCGGCAGGCGGGTGA GGTCGCTGAGGGCCCGCGGAGATGTTTTCTTGTGCGAGCACGGTGCAACCCAGGTTAC AGTTCCTCTGAGTCATCTCATCAATGCCTTCCATACACCAAAAAACACTTCTGTTTCTCT CAGTGGAGTGTCAGTTTTCTCAAAACCAGCATCGAGATGTAGTTCCTGAGCATGAGGCTCC CAGCAGTGAGTGTATGTTTCAGTGACTTCCTGACGAAGCTTAACATTGTTTCAATTGGCAA AGGAAAAATATTCGAAGGTACAGATCCATGTTTCATGGAGCCAGCAAAAAGGATGAAGAA GAGCTTGACACAACCGATAACTGGCACATCCGTCAGAACCTTCTCCCTCTCAATCCC TCCTTCACTTAACTTAAGGGACCTTGGATTATCTGAACTAAAAATTGGACAGATTGATCA GCTGGTAGAAAATCTACTTCTGGATTTTGTAAAGGCAAAAACATTTCTCCATTGGCA TACATCCCATGTCTCTGCACAATCCTTCTTGTAAATAAATATGGTAACTTAGATATATT TAGTACATTACGTTCTTCTTGTGTATCGACATCATTCAAGAGCTCTTCAAGCATTGTG TCAGATCTTCAGTACTGGCCAGCATTAAATTTGGAGATTCTGNACAAATATGATTTAAAGA AAACGAAATGAGCCATATTTTTATACAGNTCTCGGGGTTTTTAAACTTTNGAATCANG GACACGACGCTTTCAGTCT</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_139313 unedited</p> <pre>NAAATNCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCAACCTGATAGTCTTTATTTG GGAAAAATATATTTGCCATGGGATGCTAATTTGCAATAGGTGTCATAATGAGAATAACCCA AACTGGATAAATGTGACAAATGATTGACAAAGCATTTACACCCTTCAATTACACCACAT CAAGAATGAGGGAAAGGTTGTAAAAGTAGACTACTGGGATGCTACTTATATTCTTGCA ATAAAACCAGCAAGCATCCATATCAAGAGATTATCATCTCACTTCCAACTTTTTCCCCT CAAGAACAATTTGAATCTCTTTGGCATCCAAGTCTCATAGGTCAATAAAGCTTCTGCGA GATTCTTATGCTCCTTTGCATGAGTTTTCAAGATATGTTTTGCTCGTTCATAGAGTCCC TAAAAAGATTCTTATTTCTTGTTCGATGGCAGATTGGGTTTCTGGACTTAGTTTCCCTG TACTACTGTAGGTCATAACTCCAAGCTTTTCACTCATTCCAAATTTGGTAACCATCCGCT TTGCTATTTTAGTGGCATTATCAAAATCACTGGAAGCACCTGTTGTAATATGGTCGGTTC CAATATAAGCTCCTCTGCCACTTTCCTCCATACTAACATCCATTTGTGCAAGCAGCT GGGCCTCTATTTCAATCCATCTGTCATTCTCAGGTAACAGGGACACATGTCCAAATGTTG GCCCCCGTGGCATGATTGTACCTTTGTTGGAAGGCATTGCATCTTTTGTGTAATATGCAA AAAGGGCTGACCAAATTTCTGATATGCTGGGATGCTTTTGGCT</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_139313
Insert Size:	2750 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_139313.1, NP_647474.1</u>
RefSeq Size:	2584 bp
RefSeq ORF:	2223 bp
Locus ID:	10730
Cytogenetics:	10p12.1
Domains:	Peptidase_M41, AAA, AAA
Protein Families:	Druggable Genome, Protease
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) is missing a segment of the coding region at the 3' end compared to transcript variant 1. This results in an isoform (2) that is shorter at the C-terminus compared to isoform 1.</p>