

## Product datasheet for **RC218760**

### ATP dependent metalloprotease YME1L1 (YME1L1) (NM\_139312) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ATP dependent metalloprotease YME1L1 (YME1L1) (NM_139312) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	YME1L1
Synonyms:	FTSH; MEG4; OPA11; PAMP; YME1L
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC218760 representing NM\_139312  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTTTCTTGTGCGAGCACGGTCAACCCAGGTTACAGTTCCTCTGAGTCATCTCATCAATGCCTTCC  
 ATACACCAAAAAACACTTCTGTTTTCTCAGTGGAGTGTAGTTTCTCAAACCAGCATCGAGATGTAGT  
 TCCTGAGCATGAGGCTCCAGCAGTGAGTGTATGTTTCAGTGACTTCTGACGAAGCTTAACATTGTTTCA  
 ATTGGCAAAGGAAAAATATTCGAAGGGTACAGATCCATGTTTCATGGAGCCAGAAAAAGGATGAAGAAGA  
 GCTTGGACACAACCGATAACTGGCACATCCGTCCAGAACCCTTCTCCCTCTCAATCCCTCCTTCACTTAA  
 CTTAAGGGACCTTGATTATCTGAACAAAAATGGACAGATTGATCAGCTGGTAGAAAACTACTTCTCT  
 GGATTTTGTAAAGGCAAAAAATTTCTCCCATGGCATAATCCCATGTCTCTGCACAATCCTTCTTTG  
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 AGCTCTTCAAAGCATTGTTTCAGATCTCAGTACTGGCCAGTTTTCATACAGTCTCGGGGTTTTAAACT  
 TTGAAATCAAGGACACGACGTCTCCAGTCTACCTCCGAGAGATTAGCTGAAACACAGAATATAGCGCCAT  
 CATTCTGGAAGGGGTTTCTTTTGCGGGACAGAGGATCAGATGTTGAGAGTTTGGACAAAACATGAAAAAC  
 CAAAAATACCTGAAGCTCACCAAGATGCATTTAAAACCTGGTTTTGCGGAAGGTTTTCTGAAAGCTCAA  
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 TTACAGGAAGTTGTTGAATCTTGAAAAAATCCAAAAATTTACTATTCTGGAGGTAACCTTCCAAAAG  
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 AGAAATCTTTTTAGGGAAGCAAAGGCGAATGCTCCTTGTGTTATATTTATTGATGAATTAGATTCTGTTG  
 GTGGGAAGAGAATTGAATCTCCAATGCATCCATATTCAAGGCAGACCATAAATCAACTTCTTGTGAAAT  
 GGATGGTTTTAAACCAATGAAGGAGTTATCATAATAGGAGCCACAAACTTCCAGAGGCATTAGATAAT  
 GCCTTAATACGTCCTGGTCGTTTTGACATGCAAGTTACAGTTCGAAGCCAGATGAAAAGGTCGAACAG  
 AAATTTGAAATGGTATCTCAATAAAATAAAGTTTGATCAATCCGTTGATCCAGAAATTATAGCTCGAGG  
 TACTGTTGGCTTTCCGGAGCAGAGTTGGAGAATCTGTGAACCAGGCTGCATTAAGCAGCTGTTGAT  
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 ATGACCTACAGTGATACAGGAAACTAAGTCCAGAAACCAATCTGCCATCGAACAGAAATAAGAATCC  
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 AGAAGCTTTATTGACCTATGAGACTTTGGATGCCAAAGAGATTCAAATGTTCTTGAGGGGAAAAAGTTG  
 GAAGTGAGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC218760 representing NM\_139312  
 Red=Cloning site Green=Tags(s)

MFSLSSTVQPQVTVPLSHLINAFTPKNTSVLSLGSVSVSQNHRDVPPEHEAPSSECMFSDFLTCLNIIVS  
 IGKGIKIFEGYRSMFMEPAKRMKSLDITDNWHIRPEPFSLSIPPSLNLRLDGLSELKIGQIDQLVENLLP  
 GFCKGKNISSHWHTSHVSAQSFENKYGNLDIFSTLRSSCLYRHHSRALQSIKSDLYWPFVFIQSRGFKT  
 LKSRTRRLQSTSERLAETQNIAPSFVKGFLLRDRGSDVESLTKLMTKNIPEAHQDAFKTGFAGFLKAQ  
 ALTQKTNDSLRRLILFVLLLFGIYGLLKNPFLSVRFRTTGLDSAVDPVQMKNVTFEHVKGVEEAKQE  
 LQEVVEFLKNPQKFTILGGKLPKGIILLVPPGTGKTLARAVAGEADVPFYASGSEFDEMFGVVGASRI  
 RNLFREAKANAPCVIFIDELDSVGGKRIESPMHPYSRQTINQLLAEMDGFKNPNEGVIIGATNFPEALDN  
 ALIRPGRFDMQVTVPRPDVKGRTIILKWLKIKFDQSDPEIARGTVGFGAELENLVNQAALKAADV  
 GKEMVTMKELEFSKDKILMGPERRSVEIDNKNKTIAYHESGHAIAYYTKDAMPINKATIMPRGPTLGH  
 VSLLPENDRWNETRAQLLAQMDVSMGGRVAEELIFGTDHITGASDFDNATKIAKRMVTKFGMSEKLG  
 MTYSDTGKLSPETQSAIEQEIIRILLRDSYERAKHILKTHAKEHKNLAEALLTYETLDAKEIQIVLEGGKL  
 EVR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

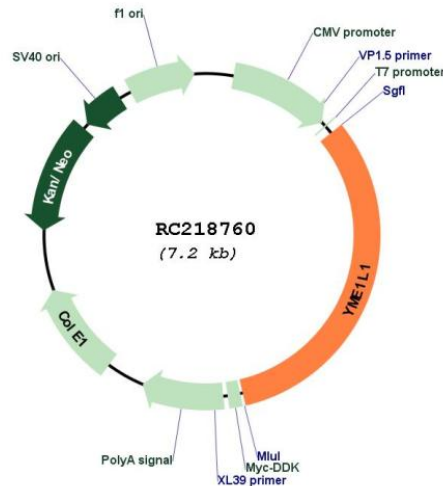
**Restriction Sites:**

Sgfi-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_139312

**ORF Size:** 2319 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_139312.3](#)

**RefSeq Size:** 4036 bp

**RefSeq ORF:** 2322 bp

**Locus ID:** 10730

**UniProt ID:** [Q96TA2](#)

**Cytogenetics:** 10p12.1

**Domains:** Peptidase\_M41, AAA

**Protein Families:** Druggable Genome, Protease

**MW:** 86.3 kDa

**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]