

Product datasheet for **RG218760**

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:	TurboGFP
Symbol:	ATP dependent metalloprotease YME1L1
Synonyms:	FTSH; MEG4; OPA11; PAMP; YME1L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG218760 representing NM_139312
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTTTCTTGTGCGAGCACGGTCAACCCAGGTTACAGTTCCTCTGAGTCATCTCATCAATGCCTTCC
 ATACACCAAAAAACACTTCTGTTTCTCAGTGGAGTGTGAGTTTCTCAAACCAGCATCGAGATGTAGT
 TCCTGAGCATGAGGCTCCAGCAGTGAGTGTATGTTTCAGTGACTTCTGACGAAGCTTAACATTGTTTCA
 ATTGGCAAAGGAAAAATATTCGAAGGGTACAGATCCATGTTTCATGGAGCCAGCAAAAAGGATGAAGAAGA
 GCTTGGACACAACCGATAACTGGCACATCCGTCCAGAACCCTTCTCCCTCTCAATCCCTCCTTCACTTAA
 CTTAAGGGACCTTGATTATCTGAACTAAAAATGGACAGATTGATCAGCTGGTAGAAAACTACTTCTCT
 GGATTTTGTAAAGGCAAAAACATTTCTCCCATGGCATAATCCCATGTCTCTGCACAATCCTTCTTTG
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 TTCTAAGGGACTCATATGAACGAGCAAAACATATCTTGAAAACCTCATGCAAAGGAGCATAAGAATCTCG
 AGAAGCTTTATTGACCTATGAGACTTTGGATGCCAAAGAGATTCAAATGTTCTTGTAGGGGAAAAAGTTG
 GAAGTGAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG218760 representing NM_139312
Red=Cloning site Green=Tags(s)

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MFSLSSTVQPQVTVPPLSHLINAFTPKNTSVLSLGSVSVSQNHRDVPPEHEAPSSECMFSDFLTCLNIVS
IGKGIKIFEGYRSMFMEPAKRMKSLDITDNDWHIRPEPFLSIPPSLNLRLDGLSELKIGQIDQLVENLLP
GFCKGKNISSHWTSHVSAQSFENKYGNLDIFSTLRSSCLYRHHSRALQSIQSDLYWPFVFIQSRGFKT
LKSRRTRRLQSTSERLAETQNIAPSFVKGFLLRDRGSDVESLDMKTKNIPEAHQDAFKTGFAGFLKAQ
ALTQKTNDSLRRLILFVLLLFGIYGLLKNPFLSVRFRTTGLDSAVDPVQMKNVTFEHVKGVEEAKQE
LQEVVEFLKNPQKFTILGGKLPKGIILLVGPPTGKTLARAVAGEADVPFYASGSEFDEMFGVVGASRI
RNLFREAKANAPCVIFIDELDSVGGKRIESPMHPYSRQTINQLLAEMDGFKNPNEGVIIGATNFPEALDN
ALIRPGRFDMQVTVPRPDVKGRTIILKWLKIKFDQSVDEIARGTVGFSGAELNENVAALKAQAVD
GKEMVTMKELEFSKDKILMGPERRSVEIDNKNKTIAYHESGHAIAYYTKDAMPINKATIMPRGPTLGH
VSLLPENDRWNETRAQLLAQMDVSMGGRVAEELIFGTDHITGASDFDNATKIAKRMVTKFGMSEKLG
MTYSDTGKLSPETQSAIEQEIIRILLRDSYERAKHILKTHAKEHKNLAEALLTYETLDAKEIQIVLEGK
EVR
    
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_139312

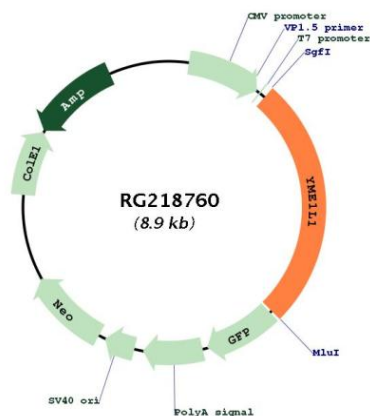
ORF Size: 2319 bp

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
- 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]

Product images:



Circular map for RG218760