

## Product datasheet for **RG203167**

### ATP dependent metalloprotease YME1L1 (YME1L1) (NM\_139313) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ATP dependent metalloprotease YME1L1 (YME1L1) (NM_139313) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	YME1L1
Synonyms:	FTSH, MEG4, 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:**

>RG203167 representing NM\_139313  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTTTCTTGTGCGAGCAGGTGCAACCCAGGTTACAGTTCCTCTGAGTCATCTCATCAATGCCTTCC  
 ATACACCAAAAAACACTTCTGTTTTCTCAGTGGAGTGTCAAGTTTCTCAAACCAGCATCGAGATGTAGT  
 TCCTGAGCATGAGGCTCCAGCAGTGAGTGTATGTTTCAGTGAATTCCTGACGAAGCTTAACATTGTTTCA  
 ATTGGCAAAGGAAAAATATTCGAAGGTACAGATCCATGTTTCATGGAGCCAGAAAAAGGATGAAGAAGA  
 GCTTGGACACAACCGATAACTGGCACATCCGTCCAGAACCCTTCTCCCTCTCAATCCCTCCTTCACTTAA  
 CTTAAGGGACCTTGATTATCTGAACTAAAAATGGACAGATTGATCAGCTGGTAGAAAACTACTTCTCT  
 GGATTTTGTAAAGGCAAAAAATTTCTCCATTGGCATAATCCCATGTCTCTGCACAATCCTTCTTTG  
 AAAATAAATATGGTAACCTAGATATATTTAGTACATTACGTTCTCTTGTGATCGACATCATTCAAG  
 AGCTCTTCAAAGCATTGTTTCAGATCTCAGTACTGGCCAGTTTTCATACAGTCTCGGGGTTTTAAACT  
 TTGAAATCAAGGACACGACGTCTCCAGTCTACCTCCGAGAGATTAGCTGAAACACAGAATATAGCGCCAT  
 CATTCTGGAAGGGGTTTCTTTTGCGGGACAGAGGATCAGATGTTGAGAGTTTGGACAAACTCATGAAAC  
 CAAAAATACCTGAAGCTCACCAAGATGCATTTAAACTGGTTTTGCGGAAGGTTTTCTGAAAGCTCAA  
 GCACTCACAAAAAACCAATGATTCCCTAAGGCGAACCCGTCTGATTCTCTTCTGTTCTGCTGCTATTTCG  
 GCATTTATGGACTTCTAAAAACCCATTTTTATCTGTCCGCTTCCGGACAACAACAGGGCTTGATTCTGC  
 AGTAGATCCTGTCCAGATGAAAAATGTCACCTTGAACATGTTAAAGGGTGGAGGAAGCTAAACAAGAA  
 TTACAGGAAGTTGTTGAATCTTGAAAAAATCCAAAAATTTACTATTCTTGGAGGTAACCTTCCAAAAG  
 GAATCTTTTATGTTGACCCCGAGGACTGGAAGACACTTCTTGCCCGAGCTGTGGCGGAGAGACTGA  
 GTTCTTTTTTATTATGCTTCTGGATCCGAATTTGATGAGATGTTTGTGGGTGTGGGAGCCAGCCGTATC  
 AGAAATCTTTTTAGGGAAGCAAAGGCGAATGCTCCTTGTGTTATATTTATTGATGAATTAGATTCTGTTG  
 GTGGGAAGAGAATTGAATCTCCAATGCATCCATATTCAAGGCAGACCATAAATCAACTTCTTGTGAAAT  
 GGATGGTTTTAAACCAATGAAGGAGTTATCATAATAGGAGCCACAAACTTCCAGAGGCATTAGATAAT  
 GCCTTAATACGTCCTGGTCGTTTTGACATGCAAGTTACAGTTCGAAGGCCAGATGTAAGGTCGAACAG  
 AAATTTGAAATGGTATCTCAATAAAATAAAGTTTGTATCAATCCGTTGATCCAGAAATTATAGCTCGAGG  
 TACTGTTGGCTTTCCGGAGCAGAGTTGGAGAATCTTGTGAACCAGGCTGCATTAAGCAGCTGTTGAT  
 GAAAAGAAATGGTTACCATGAAGGAGCTGGAGTTTTCCAAAGACAAAATCTAATGGGGCCTGAAAGAA  
 GAAGTGTGAAATTGATAACAAAAACAAAACCATCACAGCATATCATGAATCTGGTCATGCCATTATTGC  
 ATATTACAAAAAGATGCAATGCCTATCAACAAAGCTACAATCATGCCACGGGGGCAACACTTGGACAT  
 GTGTCCCTGTTACCTGAGAATGACAGATGGAATGAAACTAGAGCCCAGCTGCTTGACAAAATGGATGTTA  
 GTATGGGAGGAAGAGTGGCAGAGGAGCTTATATTTGGAACCGACCATATTACAACAGGTGCTTCCAGTGA  
 TTTTGATAATGCCACTAAAATAGCAAAGCGGATGGTTACCAAATTTGGAATGAGTGAAAAGCTTGGAGTT  
 ATGACCTACAGTGATACAGGAAACTAAGTCCAGAAACCAATCTGCCATCGAACAAGAAATAAGAAATCC  
 TTCTAAGGACTCATATGAACGAGCAAAACATATCTTGAAAATCATTCT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG203167 representing NM\_139313  
 Red=Cloning site Green=Tags(s)

MFSLSSTVQPQVTVPLSHLINAFTPKNTSVLSGVSVSQNQRDQVPEHEAPSSECMFSDFLTCLNIVS  
 IGKGIKIFEGYRSMFMEPAKRMKSLDITDNDWHIRPEPFLSIPPSLNLRLDLSELKIGQIDQLVENLLP  
 GFCKGKNISSHWHTSHVSAQSFENKYGNLDIFSTLRSSCLYRHSRALQSIKSDLYWVFIQSRGFKT  
 LKSRTRRLQSTSERLAETQNIAPSFVKGFLLRDRGSDVESLTKMKTNIPEAHQDAFKTGAEGFLKAQ  
 ALTQKTNDSLRRTRLILFVLLLFGIYGLLKNPFLSVRFRTTGLDSAVDPVQMKNVTFEHVKGVEEAKQE  
 LQEVVEFLKNPQKFTILGGKLPKGIILLVGPPTGKTLARAVAGEADVPFYASGSEFDEMFGVVGASRI  
 RNLFREAKANAPCVIFIDELDSVGGKRIESPMHPYSRQTINQLLAEMDGFKNPNEGVIIGATNFPEALDN  
 ALIRPGRFDMQVTVPRPDVKGRTIILKWLKIKFDQSDPEIARGTVGFGAELENLVNQAALKAQAVD  
 GKEMVTMKELEFSKDKILMGPERRSVEIDNKNKTITAYHESGHAIAYYTKDAMPINKATIMPRGPTLGH  
 VSLLPENDRWNETRAQLLAQMDVSMGGRVAEELIFGTDHITGASDFDNATKIAKRMVTKFGMSEKLGV  
 MTYSDTGKLSPETQSAIEQEIRILLRDSYERAKHILKTHS

TRTRPLE - GFP Tag - V

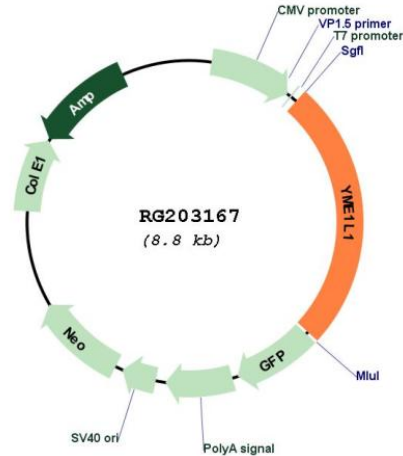
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



## Plasmid Map:



ACCN: NM\_139313

ORF Size: 2220 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\\_139313.1](#), [NP\\_647474.1](#)

RefSeq Size: 2584 bp

RefSeq ORF: 2222 bp

Locus ID: 10730

<b>Cytogenetics:</b>	10p12.1
<b>Domains:</b>	Peptidase_M41, AAA, AAA
<b>Protein Families:</b>	Druggable Genome, Protease
<b>Gene Summary:</b>	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]