

Product datasheet for **RG201088**

ATP dependent metalloprotease YME1L1 (YME1L1) (NM_014263) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP dependent metalloprotease YME1L1 (YME1L1) (NM_014263) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	YME1L1
Synonyms:	FTSH; MEG4; OPA11; PAMP; YME1L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG201088 representing NM_014263
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTTTCTTGTGCGAGCACGGTGAACCCAGGTTACAGTTCCTCTGAGTCATCTCATCAATGCCTTCC
 ATACACCAAAAAACACTTCTGTTTTCTCAGTGGAGTGTCAAGTTTCTCAAACCAGCATCGAGATGTAGT
 TCCTGAGCATGAGGCTCCAGCAGTGAGCCTTCACTTAACTTAAGGGACCTTGGATTATCTGAACTAAAA
 ATTGGACAGATTGATCAGCTGGTAGAAAATCTACTTCTGGATTTTGTAAAGGCAAAAAACATTTCTTCCC
 ATTGGCATAACATCCCATGCTCTGCACAATCCTTCTTTGAAAAATAAATATGGTAAGTATATTTAG
 TACATTACGTTTCTTGTGTATCGACATCATTCAAGAGCTTCAAAGCATTGTTCAGATCTTCAG
 TACTGGCCAGTTTTATACAGTCTCGGGTTTTAAACTTTGAAATCAAGGACACGACGCTCCAGTCTA
 CCTCCGAGAGATTAGCTGAAACACAGAATATAGCGCCATCATTCTGTAAGGGTTTTCTTTGCGGGACAG
 AGGATCAGATGTTGAGAGTTTGGACAACTCATGAAAACCAAAAAATACCTGAAGCTCACCAAGATGCA
 TTTAAACTGGTTTTGCGGAAGTTTTCTGAAAGCTCAAGCACTCACAAAAAACCAATGATCCCTAA
 GGCAACCCGCTGATTCTCTTCTGTTCTGCTGCTATTCGGCATTATGGACTTCTAAAAACCCATTTTT
 ATCTGTCCGTTCCGGACAACAACAGGGCTTATTCTGCAGTAGATCCTGTCCAGATGAAAAATGTCACC
 TTTGAACATGTTAAAGGGTGGAGGAAGCTAAACAAGAATTACAGGAAGTTGTTGAATCTTGAAAAATC
 CAAAAATTTACTATTCTTGGAGGTAACCTCCAAAAGGAATCTTTTAGTTGGACCCCGGGACTGG
 AAAGACTTCTTGCCGAGCTGTGGCGGGAGAAGCTGATGTTCCTTTTATTATGCTTCTGGATCCGAA
 TTTGATGAGATGTTTGTGGTGTGGGAGCCAGCGTATCAGAAATCTTTTAGGGAAGCAAAGGCGAATG
 CTCCTTGTGTTATATTTATTGATGAATTAGATTCTGTTGGTGGGAAGAGAATTGAATCTCCAATGCATCC
 ATATTCAGGCAGACCATAAATCAACTTCTTCTGAAATGGATGTTTTAAACCAATGAAGGAGTTATC
 ATAATAGGAGCCACAACTTCCCAGAGGCATTAGATAATGCCTAATACGTCCTGGTCGTTTTGACATGC
 AAGTTACAGTTCCAAGGCCAGATGTAAGGTCGAACAGAAATTTGAAATGGTATCTCAATAAAAAAAA
 GTTTGATCAATCCGTTGATCCAGAAATTATAGCTCGAGGTAAGTTGGCTTTTCCGGAGCAGAGTTGGAG
 AATCTTGTGAACAGGCTGCATTAAGCAGCTGTTGATGGAAAAGAAATGGTTACCATGAAGGAGCTGG
 AGTTTTCCAAAGACAAAATCTAATGGGCCTGAAAGAAGAAGTGTGAAATTGATAACAAAAACAAAAC
 CATCACAGCATATCATGAATCTGGTCATGCCATTATTGCATATTACACAAAAGATGCAATGCCTATCAAC
 AAAGCTACAATCATGCCACGGGGCCAACACTTGGACATGTGCCCTGTTACCTGAGAATGACAGATGGA
 ATGAAACTAGAGCCAGCTGCTTGACAAAATGGATGTTAGTATGGGAGGAAGAGTGGCAGAGGAGCTTAT
 ATTTGAAACCGACCATATTACAACAGGTGCTTCCAGTGATTTTGATAATGCCACTAAAATAGCAAAGCGG
 ATGGTTACCAATTTGGAATGAGTGAAGGCTTGGAGTTATGACCTACAGTGATACAGGGAAACTAAGTC
 CAGAAACCAATCTGCCATCGAACAAAGAAATAAGAATCCTTCTAAGGGACTCATATGAACGAGCAAAACA
 TATCTTGAAGCAATGCAAGGAGCATAAGAATCTCGCAGAAGCTTTATTGACCTATGAGACTTTGGAT
 GCCAAGAGATTCAAATTGTTCTTGGAGGGAAAAAGTTGGAAGTGAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG201088 representing NM_014263
 Red=Cloning site Green=Tags(s)

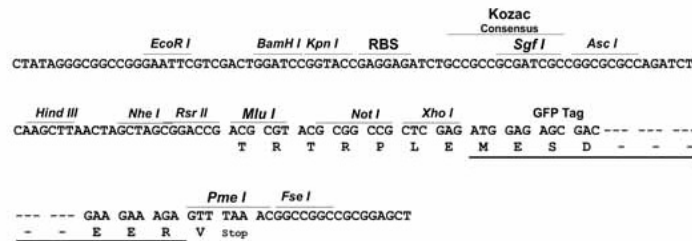
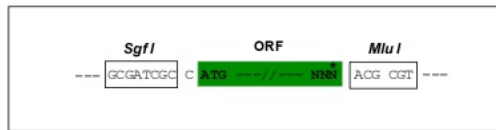
MFSL SSTVQPQVTVPLSHL INAFHTPKNTSVSL SGVSVSQNHQHRDVVPEHEAPSSEPSLNL RDLGLSELK
 IGQIDQLVENLLPGFCKGKNIS SHWHTSHVSAQSFFENKYGNLDIFSTLRSSCLYRHHSRALQSI CSDLQ
 YWPVFIQSRGFKTLKSRTRRLQSTSERLAETQNIAPSFVKGFLLRDRGSDVESLDKLMKTKNIPEAHQDA
 FKTGFAEGFLKAQAL TQKTNDSLRRTRLILFVLLLFGIYGLLKNPFLSVRFRTTTGLDSAVDPVQMKNVT
 FEHVKGVEEAKQELQEVVEFLKNPQKFTILGGKLPKGILLVGGPGTGKTL LARAVAGEADVPFYYASGSE
 FDEMFVGVGASRIRNLFREAKANAPCVIFIDE LDSVGGKRIESPMHPYSRQTINQLLAEMDGFKNPNEGVI
 IIGATNFPEALDNALIRPGRFDMQVTVPRPDVKGRT EILKWLKIKFDQSDPEI IARGTVGFGSGAELE
 NLVNQAALKA AVDGKEMVTMKELEFSKDKILMGPERRSVEIDNKNKTITAYHESGHAI IAYYTKDAMPIN
 KATIMPRGPTLGHVSLLPENDRWNETRAQLLAQMDVSMGGRVAEELIFGTDHITTGASSDFDNATKIAKR
 MVTKFGMSEKLGVMYSDTGKLSPETQSAIEQEIRILLRDSYERAKHILKTHAKEHKNLAEALLTYETLD
 AKEIQIVLEGGKLEVR

TRTRPLE - GFP Tag - V

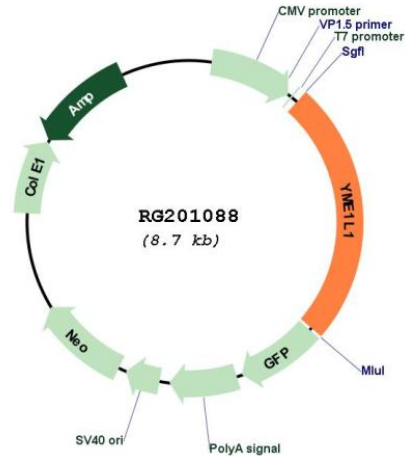
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_014263

ORF Size: 2148 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_014263.4](#)

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]