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Product datasheet for MC220981

Yme1l1 (NM_013771) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Yme1l1 (NM_013771) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Yme1l1
Synonyms:	Ftsh; FtsH1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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Fully Sequenced ORF:

>MC220981 representing NM_013771
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTCTCCCTGTCGAGCACTGTGCAGCCTCAGGTTACAATTCCTCTCAGTCATCTCATCAATGCTTTCC
ATTCACCAAAAAATATATCTGTTTCTGTCAATACACCTGTTTCTCAAAAACAGCATCGAGATACAGTTCC
TGAGCATGAAGCTCCCAGTAGTGAGCCTGTGCTTAATTTAAGGGACCTTGGATTATCTGAATTGAAAATT
GGACAGATTGATAAAATGGTAGAAAATTTACTTCCTGGATTTTATAAAGACAAAAGAGTTTCTTCCTGTT
GGCATACATCTCATATTTCGGCACAGTCCTTTTTTGAAAATAAATATGGTCACTTAGATATGTTCAGTAC
ATTACGTTCCTCTAGCTTGTACAGGCAACATCCAAAAACTCTTCGAAGCATTTGTTCAGATCTTCAGTAT
TTTCCAGTTTTCATACAGTCTCGGGGTTTCAAAACGTTGAAATCAAGGACACGACGTTTGCAGTCTACCT
CTGAAAGATTAGTAGAAGCACAGAATATAGCACCATCATTTGTGAAGGGGTTTCTTTTGCGGGACAGAGG
AACAGATCTTGAGAGTTTGGACAAACTTATGAAAACTAAAAACATACCTGAAGCTCACCAAGATGCATTT
AAAACTGGTTTTGCAGAGGGTTTTCTCAAAGCTCAAGCTCTTACACAGAAGACCAATGATTCCTTAAGGC
GAACTCGTCTGATCCTCTTTGTTTTGCTCCTGTTTGGCATTTATGGACTCTTAAAAAATCCGTTTTTATC
TGTGCGCTTTCGGACAACTACAGGACTTGATTCTGCGGTAGACCCTGTCCAGATGAAAAATGTCACTTTT
GAACATGTTAAAGGGGTGGAGGAAGCCAAACAAGAGTTACAGGAAGTGGTTGAATTCTTGAAAAATCCAC
AGAAGTTTACTGTGCTTGGAGGTAAACTTCCCAAAGGAATTCTTTTAGTTGGGCCACCAGGAACAGGGAA
GACGCTTCTTGCCCGAGCTGTGGCAGGAGAAGCTGACGTCCCTTTTTATTATGCTTCTGGATCAGAGTTT
GATGAGATGTTTGTGGGCGTAGGAGCCAGCAGGATCAGAAATCTTTTTAGAGAAGCAAAAGCAAATGCTC
CTTGTGTTATATTCATCGATGAATTAGATTCTGTTGGTGGAAAGAGAATTGAATCTCCAATGCACCCGTA
TTCAAGGCAGACGATCAATCAGCTTCTTGCTGAAATGGATGGTTTCAAACCCAATGAAGGAGTAATCATT
ATAGGTGCCACAAATTTCCCAGAGGCATTAGATAATGCCTTAATACGTCCTGGTCGTTTTGATATGCAAG
TTACAGTTCCAAGGCCAGATGTGAAGGGTCGAACTGAAATTTTGAAATGGTATCTCAACAAGATAAAGTT
TGATAAATCTGTTGATCCAGAAATCATAGCTCGAGGGACTGTTGGGTTCTCTGGAGCAGAGTTGGAGAAT
CTTGTGAACCAAGCTGCACTAAAGGCAGCAGTTGATGGAAAAGAAATGGTTACCATGAAGGAACTAGAGT
TTTCCAAGGATAAAATTCTAATGGGACCAGAAAGAAGAAGTGTGGAAATTGATAACAAAAACAAAACTAT
AACAGCCTATCATGAATCTGGTCATGCTATTATTGCATATTACACAAAGGATGCAATGCCAATTAATAAA
GCTACAATCATGCCTCGAGGGCCAACACTTGGGCATGTATCACTGTTGCCTGAGAATGACAGATGGAATG
AAACTCGAGCCCAGCTGCTTGCACAGATGGATGTTAGCATGGGAGGAAGAGTGGCAGAGGAACTCATATT
TGGAACTGATCATATTACAACTGGTGCTTCTAGTGATTTTGATAATGCAACAAAAATTGCTAAGAGGATG
GTTACCAAATTTGGAATGAGTGAAAAGCTTGGAGTTATGACCTACAGTGATACAGGAAAACTAAGTCCTG
AAACTCAATCAGCCATTGAACAAGAAATAAGAATCCTTCTACGGGAGTCATATGAACGAGCAAAACATAT
CTTGAAAACACATGCGAAAGAACATAAGAACCTGGCAGAAGCATTGCTGACCTATGAGACTTTGGATGCC
AAAGAGATTCAAATTGTTCTTGAGGGAAAGAAATTGGAAGTGAGATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_013771

Insert Size: 2148 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:	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_013771.5, NP_038799.1
RefSeq Size:	4571 bp
RefSeq ORF:	2148 bp
Locus ID:	27377
UniProt ID:	O88967
Cytogenetics:	2 A3
Gene Summary:	ATP-dependent metalloprotease that catalyzes the degradation of folded and unfolded proteins with a suitable degron sequence in the mitochondrial intermembrane region (By similarity). Plays an important role in regulating mitochondrial morphology and function by cleaving OPA1 at position S2, giving rise to a form of OPA1 that promotes maintenance of normal mitochondrial structure (PubMed:17709429, PubMed:24616225, PubMed:26785494, PubMed:27495975). Ensures cell proliferation, maintains normal cristae morphology and complex I respiration activity, promotes antiapoptotic activity and protects mitochondria from the accumulation of oxidatively damaged membrane proteins (By similarity). Required for normal, constitutive degradation of PRELID1 (PubMed:26785494). Catalyzes the degradation of OMA1 in response to membrane depolarization. Required to control the accumulation of nonassembled respiratory chain subunits (NDUFB6, OX4 and ND1) (By similarity). [UniProtKB/Swiss-Prot Function]