

Product datasheet for **RR205144**

Yme111 (NM_053682) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Yme111 (NM_053682) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Yme111
Synonyms:	FtsH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR205144 representing NM_053682
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTCTCCCTGTCGAGCACTGTGCAGCCTCAGGTTACAGTTCCTCTCAGTCATCTCATCAATGCCTTCC
 ATTCACCAAAAAATATATCCGTTTCCGTC AATACATCTGCTTCTCCAAAACAGCATCGAGATACAGTTGC
 TGAGCATGAAGCTCCAGTAGTGAGCCTGTGCTTAATTTAAGGGACCTGGATTATCTGAATTGAAAATT
 GGACAGACTGATAAACTGGTAGAAAATTTACTTCTGGATTTTATAAAGACAAAAGATTTCTTCTGTT
 GGCATACATCTCATATCTCGGCACAGTCTTTTTGAAAATAAATATGGTCACTTAGATATGTTCACTAC
 ATTACGTTCTCTAGCTTGTACAGGCAACATCCAAAACCTTTCAGAGCATTGTTTCAGATCTTCAGAAT
 TTTCCAGTTTTCATACAGTCTCGTGGTTCAAACCTTTGAAGTCAAGGACACGGCGTTTGAATCTACTT
 CTGAAAGATTAGCAGAAGCACAGAATATAGCACCATCATTGTGAAGGGGTTCTTTTCCGGGACAGAGG
 AACAGATCTTGAGAGTTGGACAACTTATGAAAACATAAACAACATACCTGAAGTTCACCAAGATGCATTT
 AAAACTGGTTTTGCAGAGGGTTTTCTCAAAGCTCAAGCTTACACAGAAGACCAATGATTCCTTAAGGC
 GAACTCGTCTGATTCTCTTTGTTTTGCTCCTGTTTGGCATTATGGACTCTTAAAAAATCCATTTTTATC
 TGTGCGCTCCGGACAACACAGGACTTGATTCTGCAGTAGACCTGTCCAGATGAAAAATGTCATTTTT
 GAACATGTTAAAGGGGTGGAGGAGGCCAAAACAAGAATTACAGGAAGTGGTTGAATTTGAAAAACCCAC
 AGAAGTTTACTGTGCTTGGAGGTAACTTCCCAAAGGAATCTCTTAGTGGGGCCACCAGGAACAGGGAA
 GACCTTCTTGCCGAGCTGTGGCAGGAGAAGCTGATGTTCTTTTTATTATGCTTCTGGATCAGAATTC
 GATGAGATGTTTTGTGGGTGAGGAGCCAGCAGGATCAGAAATCTTTTTAGAGAAGCAAAAGCAAAATGCTC
 CTTGTGTTATATTCATTGATGAATTGGATTCTGTTGGTGGGAAGAGAATTGAATCTCCAATGCATCCATA
 TTCAAAGCAGACTATCAATCAACTTCTTGCCGAAATGGATGGTTTTCAAACCTAATGAAGGAGTAATCATT
 ATAGGTGCCACAAAATTTCCAGAGGCATTAGATAATGCCTTAATACGTCCTGGTCGTTTTGATATGCAAG
 TTACAGTTCGAAGCCAGATGTGAAGGGTCTGACTGAAATTTTGAATGGTATCTTAATAAAAAAAAGTT
 TGATAAATCTGTTGATCCAGAAATCATAGCTCGAGGAACTGTTGGGTTTTCTGGAGCAGAGTTGGAGAAT
 CTTGTGAACCAAGCTGCATTAAGGCAGCAGTTGATGGAAAAGAAATGGTTACCATGAAGGAACTAGAGT
 TTTCCAAGGATAAAAATCTAATGGGACCAGAAAGAAGAAGTGTGGAAATTGATAACAAAAACAAAACAT
 AACAGCCTATCATGAATCTGGTCATGCTATTATTGCATATTACACAAAGGATGCAATGCCAATCAATAAA
 GCTACAATCATGCCACGAGGGCCACACTTGGACATGTATCACTGTTGCCTGAGAATGACAGATGGAATG
 AAAGTAGAGCCAGCTGCTTGCACAGATGGATGTTAGTATGGGAGGAAGAGTGGCAGAGGAACTCATATT
 TGGAACCGATCATATTACAACCTGGTCTCTAGTGATTTTGATAATGCAACAAAAATTGCAAGAGGATG
 GTTACCAATTTGGAATGAGTGAAGGCTTGGAGTTATGACCTACAGTGATACAGGAAAGCTAAGTCCTG
 AAAGTCAATCGGCCATTGAACAAGAAAATAAGAAATCCTTCTACGGGAATCATATGAACGAGCAAAACATAT
 CCTGAAAACACATGCGAAAGAACATAAAGAACTGGCCGAGGCGTTGCTGACCTATGAGACTTTGGATGCC
 AAAGAGATTCAAATGTTCTTGAGGGGAAGAAATTAGAAGTGAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR205144 representing NM_053682
Red=Cloning site Green=Tags(s)

MFSLSSTVQPQVTVPPLSHLINAFAHSPKNISVSVNTSASPQHRDVAEHEAPSSEPVLNLRDLGLSELKI
 GQTDKLVENLLPGFYKDKRVSSCWHTSHISAQSFENKYGHLDMFSTLRSSSLYRQHPKTLQSDLQN
 FPVFIQSRGFKTLKSRRRLQSTSERLAEAQNIAPSFVKGFLLRDRGTDLESCLKMKTNIPEVHQDAF
 KTGFAEGFLKAQALTQKTNDLRRTRLILFVLLLFGLIYGLLKNPFLSVRFRTTTGLDSAVDPVQMKNVTF
 EHVKGVEEAKQELQEVVEFLKNPQKFTVLGGKLPKGILLVGPPTGKTLARAVAGEADVPFYYASGSEF
 DEMFVGVGASRIRNLFREAKANAPCVIFIDE LDSVGGKRIESPMHPYSRQTINQLLAEMDGFKNPNEGVII
 IGATNPFALDNALIRPGRFDMQVTVPRPDVKGRTEILKWLKIKFKDYSVDPEIARGTVGFSGAELN
 LVNQAALKAADVKGEMVTMKELEFSKDKILMGPERRSVEIDNKNKTITAYHESGHAIAYYTKDAMPINK
 ATIMPRGPTLGHVSLLPENDRWNETRAQLLAQMDVSMGGRVAEELIFGTDHITGASSDFDNATKIAKRM
 VTKFGMSEKLGVMYSDTGKLPETQSAIEQEIRILLRESYERAKHILKTHAKEHKNLAEALLTYETLDA
 KEIQIVLEGKKLEVR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_053682

ORF Size: 2145 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_053682.2](#), [NP_446134.2](#)

RefSeq Size: 3006 bp

RefSeq ORF: 2148 bp

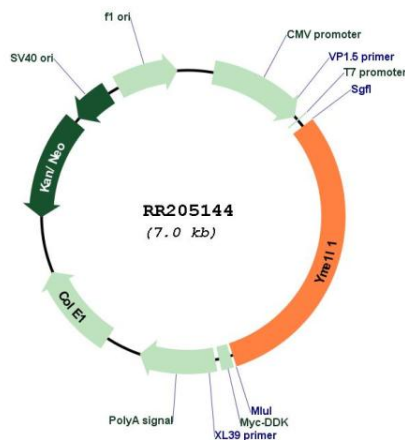
Locus ID: 114217

Cytogenetics: 17q12.3

MW: 79.8 kDa

Gene Summary: human homolog has similarity to mitochondrial AAA proteases, especially to yeast Yme1p; may be a candidate gene for a form of hereditary spastic paraplegia or neurodegenerative disorder [RGD, Feb 2006]

Product images:



Circular map for RR205144