

Product datasheet for **RR210408**

Mutyh (NM_133316) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mutyh (NM_133316) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mutyh
Synonyms:	Myh
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR210408 representing NM_133316
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGAAGTTACGAGCATCTGTAAGGAGTCACAAGAAGCAACCAGCCAACCACAAGAGAAGGGGAAAAT
 GTGCTCTTAGCAGCAGCCAGGCCAAACCTTCTGGCCTCGATGGCCTGGCCAAGCAGAAGAGAGAGGAGTT
 ACTGAAGACCCCTGTCTCTCCATATCACCTCTTCAGTGACATAGCCGATGTCACAGCTTTCCGAAGGAAC
 CTGCTCAGCTGGTATGACCAAGAGAAGCGTGACCTTCTTGGAGAAAACGGGTAAAGGAGGAGACCAACT
 TGGACAGGAGAGCCTATGCAGTCTGGGTGTGAGAGGTCATGCTGCAGCAGACCCAAGTTGCCACAGTGAT
 CGACTATTATACCCGATGGATGCAGAAGTGCCCAACGCTACAAGACCTGGCCAGTCTTCCCTGGAGGAG
 GTGAACCAGCTCTGGTCTGGCCTGGGCTACTATTCTCGAGGTCGTCGGCTCCAAGAAGGAGCTAGGAAGG
 TGGTAGAGGAGCTAGGAGGCCACGTACCACGTACAGCAGAGACCCTGCAGCAGCTCTGCCTGGGGTGGG
 GCGGTACACGGCTGGAGCCATCGCTTCTATTGCCTTTGACCAGGTAACCGGTGTGGTGGATGGGAACGTC
 ATACGGGTGCTGTGCCGTGTCCGCGCCATTGGTGTGATCCCACCAGCTCCTTTGTCTCTCATCACCTCT
 GGGACTTAGCCCAGCAGCTGGTGGACCCAGCCCGCCTGGGGATTTCAACCAAGCAGCCATGGAGCTGGG
 AGCCACAGTGTGTACCCACAGCGCCCTCTCTGCAACATTGTCTGTGCAGAGTTTATGCCGGGCACAC
 CAGAGGGTGGGACAGGGACGGCTCTCAGCCTTGCCAGGCAGTCTGACATAGAGGAGTGCCTCTCAACA
 CTAGACAGTGCCAGCTTTGCCTCCCTTCCACAAACCCCTGGGACCCCAACATGGGAGTGGTCAACTTCCC
 TCGAAAGGCCAGCCGACACCTCCAGGGAGGAGTACTCTGCCACCTGTGTTGTAGAGCAGCCCGGAGCC
 ACTGGGGTCCCCTCATCTCTCTGGTGCAAAGGCCTAAGTCTGCTGGCAGGACTGTGGGAGTTCC
 CGTCTGTACACTTGGAGCCCTCAGGACAGCATCAGCACAAGCCCTACTGCAGGAGCTGCACCACTGGTC
 TGCACCCCTCCCACCACTCTCTCCAGCACTGGGGGAGGTGATCCATGTCTTCTCTCACATCAAAGT
 ACGTATACAGTATACAGTCTGGCTCTCGAAGGACAGACCCAGCAAGCACCACACTTCTGGCGCTCGAT
 GTTGACCTGGGAGGAATCCGAAATGCAGCGGTGTCTACTGCCATGAAAAAGGTGTTCCGCGTGTATGA
 GGAACATCGGCGAGGGACCTGCAAGGGTTCAAAAGGCCCCAGGTGTGTACTCCATCAAGCCGAAAAAAA
 CCCAGCCGGGACAGCAAGTCTGGATCGTTTCTTTCAGCGTCATATCCCACACACAACCCAACAGTA
 CTACCCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR210408 representing NM_133316
 Red=Cloning site Green=Tags(s)

MKKLRASVRSKKQPANHKRRGKCALSSSQAKPSGLDGLAKQKREELLKTPVSPYHLFSDIADVTAFFRN
 LLSWYDQEKRDLPWRKRKVEETNLDRRAYAVWVSEVMLQQTQVATVIDYYTRWMQKWPTLQDLASASLEE
 VNQLWSGLGYYSRGRRLQEGARKVVEELGGHVPRTAETLQQLPGVGRYTAGAIAAFDQVTGVVDGNV
 IRVLCRVRAIGADPTSSFVSHHLWDLAQQLVDPARPGDFNQAAMELGATVCTPQRPLCNHCPVQSLCRAH
 QRVGQGRLSALPGSPDIEECALNTRQCQLCLPSTNPWDPNMGVVNFPKASRRPPREEYSATCVVEQPGA
 TGGPLILLVQRPNSGLLAGLWEFSPVTLEPSGQHQHKALLQELQHWSAPLPTTPLQHLGEVIHVFSHIKL
 TYQVYSLALEGQTPASTTLPGARWLTWEEFRNAAVSTAMKKVFRVYEEHRRGTCKGSKRPQVCTPSSRKK
 PSRGQVLDLDRFFQRHIPTHKPNSTTQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

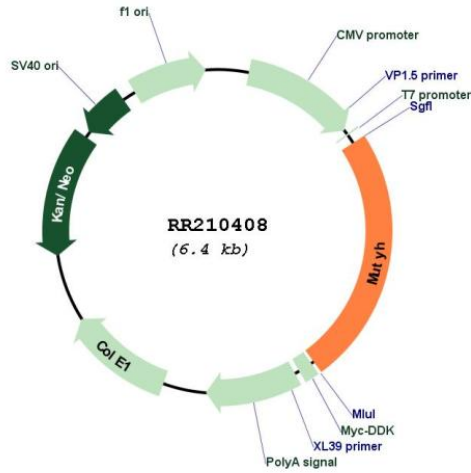
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_133316
ORF Size:	1548 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:	<ol style="list-style-type: none">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_133316.1 , NP_579850.1
RefSeq Size:	1679 bp
RefSeq ORF:	1551 bp
Locus ID:	170841
UniProt ID:	Q8R5G2
Cytogenetics:	5q35
MW:	57.9 kDa
Gene Summary:	an DNA repair enzyme that excises adenine residues misincorporated opposite the oxidized base [RGD, Feb 2006]