

Product datasheet for **MR221374**

Mutyh (NM_001159581) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mutyh (NM_001159581) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mutyh
Synonyms:	5730495A01Rik; Mutyha; Mutyhalpha; Mutyhb; Mutyhbeta; Mutyhc; Myh
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR221374 representing NM_001159581
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGAACTCCAAGCATCTGTGAGGAGTCAAAAAAGCAACCAGCCAACCACAAGAGAAGGAGAACAC
 GTGCCCTTAGCAGCAGCCAGGCCAAGCCTTCCAGCCTGGATGGCCTGGCCAAGCAGAAGAGAGAGGAGTT
 ACTGCAGGCCCTGTCTCCCATATCATCTCTTACGCGACTGGCCGATGTCACAGCTTTCCGAAGCAAC
 TTGCTCAGCTGGTATGACCAAGAGAAGCGTGACCTCCCTTGAGAAAATTGGCAAAAAGAGGCCAACT
 CGGACAGGAGGGCCTATGCTGTGTGGGTGTGAGAGTTATGCTGCAGCAGACCCAGGTTGCCACAGTGAT
 CGACTATTATACTCGATGGATGCAGAAGTGCCAAAGCTTCAAGACCTGGCCAGCGCTTCCCTGGAGGAG
 GTGAACCAGCTCTGGTCTGGCTGGGCTACTATTCTCGAGGCCGTCGGCTACAAGAAGGAGCTAGGAAGG
 TGGTAGAGGAGCTAGGAGGCCATATGCCACGTACAGCAGAGACCCTACAGCAGCTCCTGCCTGGTGTGGG
 GCGGTACACGGCTGGAGCCATTGCTCCATCGCCTTTGACCAGGTAACCGGTGTGGTGGATGGGAACGTT
 TTACGGGTGCTGTGCCGTGTCCGGGCCATTGGTGGCGATCCCACCAGCACCCCTTGTCTCTACACCTCT
 GGAECTTAGCCCAGCAGCTCGTGGACCCAGCCCGCCTGGGGACTTCAATCAAGCTGCCATGGAGCTGGG
 GGCTACAGTGTGCACCCACAGCGCCCTCTCTGCAGCCATTGCCCGTGCAGAGTTTATGCCGGGCATAC
 CAGAGGGTGCAGCGGGTTCAGCTCTCAGCCTTGCAGGCCGCTCTGACATAGAGGAGTGTCTCTCAACA
 CTAGACAGTGCCAGCTTTGCCTCACTTCTCAAGCCCCTGGGACCCAGCATGGGAGTGGCAACTTTCC
 TCGAAAGGCCAGCCGAGGCCTCCAGGGAGGAGTACTCTGCCACCTGTGTTGTGGAGCAGCCCGGAGCC
 ATCGGGGTCCCCTGGTCTCTGGTGCAAAGGCCTGACTCAGGTCTGCTGGCAGGACTGTGGGAGTTCC
 CATCTGTACCTTGGAGCCCTCAGAACAGCATCAGCACAAAGCCCTTCTGCAGGAATGCAGCGCTGGTG
 TGGGCCCTCCCTGCCATTCTCTCCAGCACCTTGGGGAGGTTATCCACATCTTCTCTCACATCAAAGT
 ACGTATCAAGTATATAGTCTGGCTTAGATCAAGCCCCAGCGAGCACTGCACCTCCTGGCCTCGATGGC
 TGACCTGGGAGGAATTCTGCAATGCAGCTGTGTCTACTGCCATGAAAAAGGTGTTCCGCATGTATGAGGA
 CCATCGGCAAGGGACCCGCAAGGTTCAAAAAGGTCCCAGGTGTCTCCATCAAGCAGGAAAAAACCC
 AGCCTGGGACAGCAAGTCTGGATACTTTCTTTCAGCGTCATATCCACAGACAAACCAACAGTACTA
 CCCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR221374 representing NM_001159581
 Red=Cloning site Green=Tags(s)

MKKLQASVRSRSHKQPANHKRRRTRALSSSQAKPSSLDGLAKQKREELLQASVSPYHLFSDVADVTAFRSN
 LLSWYDQEKRDLPWRNLAKEEANSRRRAYAVWVSEVMLQQTQVATVIDYTRWMQKWPKLQDLASASLEE
 VNQLWSGLGYYSRGRRLQEGARKVVEELGGHMPRTAETLQQLPGVGRYTAGAIAASIAFDQVTGVVDGNV
 LRVLCRVRAIGADPTSTLVSHLWNLAQQLVDPARPGDFNQAAMELGATVCTPQRPLCSHCPVQSLCRAY
 QRVQRGQLSALPGRPDIEECALNTRQCQLCLTSSSPWDPMSGVANFPRKASRRPPREEYSATCVVEQPGA
 IGGPLVLLVQRPDSGLLAGLWEFSPVTLEPSEQHQHKALLQELQRWCGPLPAIRLQHLGEVIHIFSHIKL
 TYQVYSLALDQAPASTAPPGARWLTWEEFCNAAVSTAMKKVFRMYEDHRQGTTRKGSKRSQVCPSSRKKP
 SLGQQVLDTFQRIPTDKPNSTTQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

ACCN:

NM_001159581

ORF Size:

1545 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

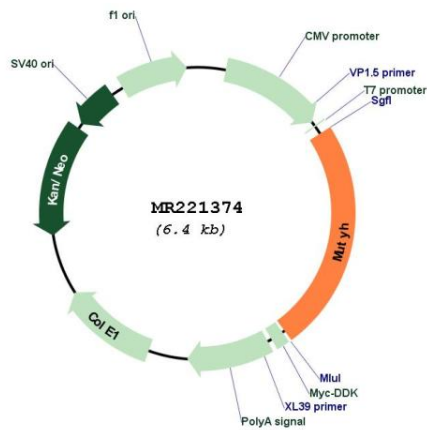
Reconstitution Method:

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_001159581.1](#), [NP_001153053.1](#)
RefSeq Size: 1736 bp
RefSeq ORF: 1548 bp
Locus ID: 70603
UniProt ID: [Q99P21](#)
Cytogenetics: 4 D1
MW: 57.7 kDa

Gene Summary: Involved in oxidative DNA damage repair. Initiates repair of A*oxoG to C*G by removing the inappropriately paired adenine base from the DNA backbone. Possesses both adenine and 2-OH-A DNA glycosylase activities.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR221374