

Product datasheet for RC238178

MYH (MUTYH) (NM_001293196) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MYH (MUTYH) (NM_001293196) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MUTYH
Synonyms:	MYH
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC238178 representing NM_001293196 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACCTGGACAGGCGGCATATGCTGTGTGGGTCTCAGAGGTCATGCTGCAGCAGACCCAGGTTGCCA
CTGTGATCAACTACTATACCGGATGGATGCAGAAGTGGCTCACTGCAGGACCTGGCCAGTCTCCCT
GGAGGAGTGAATCAACTCTGGGCTGGCCTGGGCTACTATTCTCGTGGCCGGCGGCTGCAGGAGGGAGCT
CGGAAGGTGGTAGAGGAGCTAGGGGGCCACATGCCACGTACAGCAGAGACCTGCAGCAGCTCCTGCCTG
CGTGGGGCGCTACACAGCTGGGGCCATTGCTCTATCGCTTTGGCCAGGCAACCGGTGTGGTGGATGG
CAACGTAGCACGGGTGCTGTGCCGTGTCCGAGCCATTGGTGTGATCCCAGCAGCACCTTGTTCACAG
CAGCTCTGGGGTCTAGCCAGCAGCTGGTGGACCCAGCCCGCCAGGAGATTTCAACCAAGCAGCCATGG
AGCTAGGGGCCACAGTGTGTACCCACAGCGCCCACTGTGCAGCCAGTGCCTGTGGAGAGCCTGTGCCG
GGCACGCCAGAGAGTGGAGCAGGAACAGCTCTTAGCCTCAGGGAGCCTGTGGGAGTCTGACGTGGAG
GAGTGTGCTCCCAACACTGGACAGTGCCACCTGTGCCTCCCTCGGAGCCCTGGGACCCAGCCCTGG
GAGTGGTCAACTTCCCCAGAAAGGCCAGCCGCAAGCCCCAGGGAGGAGAGCTCTGCCACTGTGTCT
GGAACAGCCTGGGGCCCTTGGGGCCAAATTCTGCTGGTGCAGAGGCCAACTCAGGTCTGCTGGCAGGA
CTGTGGGAGTTCCCGTCCGTGACCTGGGAGCCCTCAGAGCAGTTTCAGCGCAAGGCCCTGTGCAGGAAC
TACAGCGTTGGGCTGGGCCCTCCAGCCACGCACCTCCGGCACCTTGGGGAGGTTGTCCACACCTTCTC
TCACATCAAGCTGACATATCAAGTATATGGGCTGGCCTTGAAGGGCAGACCCAGTACCACCCGATACCA
CCAGGTGCTCGTGGCTGACGCAGGAGGAATTTACACCCGACGCTGTTCCACCCGATGAAAAAGGTTT
TCCGTGTGATCAGGGCCAACAGCCAGGACCTGTATGGGTTCCAAAAGGTCACAGGTGCTCTCCGTG
CAGTCGAAAAAGCCCCGCATGGGCCAGCAAGTCTGGATAATTTCTTTCGGTCTCACATCTCCACTGAT
GCACACAGCCTCAACAGTGCAGCCAG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC238178 representing NM_001293196
Red=Cloning site Green=Tags(s)

MDLDRRAYAVVWSEVMLQQTQVATVINYYTGWMQKWPTLQDLASASLEEVLNQLWAGLGYYSRGRRLQEGA
 RKVVEELGGHMPRTAETLQQLPGVGRYTAGAIAAFGQATGVVDGNVARVLCRVRAIGADPSSTLVSQ
 QLWGLAQQLVDPARPGDFNQAAAMELGATVCTPQRPLCSQCPVESLCRARQRVEQEQLLASGSLSGSPDVE
 ECAPNTGQCHLCLPPSEPWDQTLGVVNFPRKASRKPPREESATCVLEQPGALGAQILLVQRPNSGLLAG
 LWEFPSVTWEPSEQLQRKALLQELQRWAGPLPATHLRHLGEVVHTFSHIKLTYQVYGLALEGQTPVTTVP
 PGARWLTQEEFHAAVSTAMKKVFRVYQQQPGTCMGSKRSQVSSPCSRKKPRMGQQLDNFFRSHISTD
 AHSLNSAAQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

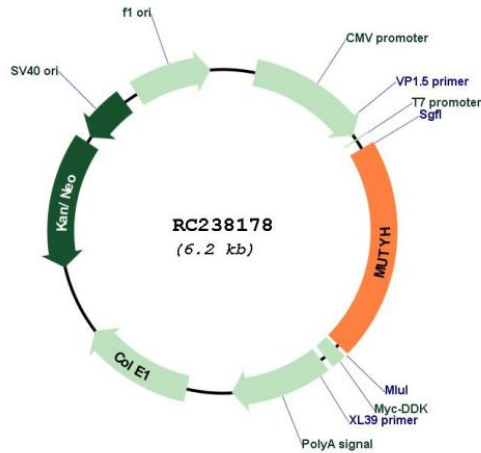
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001293196

ORF Size:	1287 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_001293196.1 , NP_001280125.1
RefSeq Size:	1728 bp
RefSeq ORF:	1290 bp
Locus ID:	4595
UniProt ID:	Q9UIF7
Cytogenetics:	1p34.1
Protein Families:	Druggable Genome, Stem cell - Pluripotency
Protein Pathways:	Base excision repair
MW:	47.5 kDa
Gene Summary:	This gene encodes a DNA glycosylase involved in oxidative DNA damage repair. The enzyme excises adenine bases from the DNA backbone at sites where adenine is inappropriately paired with guanine, cytosine, or 8-oxo-7,8-dihydroguanine, a major oxidatively damaged DNA lesion. The protein is localized to the nucleus and mitochondria. This gene product is thought to play a role in signaling apoptosis by the introduction of single-strand breaks following oxidative damage. Mutations in this gene result in heritable predisposition to colorectal cancer, termed MUTYH-associated polyposis (MAP). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2017]