

Product datasheet for **RG225939**

MYH (MUTYH) (NM_001128425) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MYH (MUTYH) (NM_001128425) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MUTYH
Synonyms:	MYH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG225939 representing NM_001128425
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACACCCTCGTCTCCCGCCTGAGTCGTCTGTGGCCATCATGAGGAAGCCACGAGCAGCCGTGGGAA
 GTGGTACAGGAAGCAGGCAGCCAGCCAGGAAGGGAGGCAGAAGCATGCTAAGAACAACAGTCAGGCCAA
 GCCTTCTGCCTGTGATGCCTGTGCAGGGATGATTGCTGAGTGTCTGGGGCCCCAGCAGGCCTGGCCAGG
 CAGCCGGAAGAGGTGGTATTGCAGGCCTGTGTCTCCTCATACCATCTATTAGAGACGTAGCTGAAGTCA
 CAGCCTCCGAGGGAGCCTGCTAAGCTGGTACGACCAAGAGAAACGGGACCTACCATGGAGAAGACGGGC
 AGAAGATGAGATGGACCTGGACAGGCGGGCATATGCTGTGTGGGTCTCAGAGGTGATGCTGCAGCAGACC
 CAGGTTGCCACTGTGATCAACTACTATACCGGATGGATGCAGAAGTGGCCTACACTGCAGGACCTGGCCA
 GTGCTTCCCTGGAGGAGTGAATCAACTCTGGGCTGGCCTGGGCTACTATTCTCGTGGCCGGCGGCTGCA
 GGAGGGAGCTCGAAGGTGGTAGAGGAGCTAGGGGGCCACATGCCACGTACAGCAGAGACCTGCAGCAG
 CTCTGCCTGGCGTGGGGCGCTACACAGCTGGGGCCATTGCCTCTATCGCCTTTGGCCAGGCAACCGGTG
 TGGTGGATGGCAACGTAGCACGGGTGCTGTGCCGTGCCGAGCCATTGGTGTGATCCCAGCAGCACCCCT
 TGTTCACAGCAGCTCTGGGGTCTAGCCAGCAGCTGGTGGACCCAGCCCGCCAGGAGATTTCAACCAA
 GCAGCCATGGAGCTAGGGGCCACAGTGTGTACCCACAGCGCCACTGTGCAGCCAGTGCCTGTGGAGA
 GCCTGTGCCGGGCACGCCAGAGAGTGGAGCAGGAACAGCTCTTAGCCTCAGGGAGCCTGTCGGGCAGTCC
 TGACGTGGAGGAGTGTCTCCAACTGGACAGTGCACCTGTGCCTGCCTCCCTCGGAGCCCTGGGAC
 CAGACCTGGGAGTGGTCAACTTCCCAGAAAGGCCAGCCGCAAGCCCCCAGGGAGGAGAGCTCTGCCA
 CCTGTGTTCTGGAACAGCCTGGGGCCCTTGGGGCCAAATTCTGCTGGTGCAGAGGCCCAACTCAGTCT
 GCTGGCAGGACTGTGGAGTTCCTGTCCTGACCTGGGAGCCCTCAGAGCAGTTTACAGCGCAAGGCCCTG
 CTGCAGGAACACAGCTTGGGCTGGGGCCCTCCAGCCACGCACCTCCGGCACCTTGGGAGGTTGTCC
 ACACCTTCTCTCACATCAAGCTGACATATCAAGTATATGGGCTGGCCTTGGAAAGGCAGACCCAGTGAC
 CACCGTACCACAGGTGCTCGCTGGCTGACGCAGGAGGAATTTACACCCGAGCTGTTTCCACCCGCATG
 AAAAAGTTTTCCGTGTGTATCAGGGCCAAACAGCCAGGGACCTGTATGGTTCCAAAAGTCCCAGGTGT
 CCTCTCCGTGCAGTCGGAAGAGCCCGCATGGGCCAGCAAGTCTGGATAATTTCTTCGGTCTCACAT
 CTCCTACTGATGCACACAGCCTCAACAGTGCAGCCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG225939 representing NM_001128425
 Red=Cloning site Green=Tags(s)

MTPLVSRLSRLWAIMRKPRAAVGSGHRKQAASQEGRQKHAKNNSQAKPSACDACAGMIAECPGAPAGLAR
 QPEEVVLQASVSSYHLFRDVAEVTAFRGSLLSWYDQEKRDLPWRRRAEDEMDLDRRAYAVVWSEVMLQQT
 QVATVINYYTGMQKWPQLDLASASLEEVNQLWAGLGYYSRGRRLQEGARKVVEELGGHMPRTAETLQQ
 LLPGVGRYTAGAIASIAFGQATGVVDGNVARVLCRVRAIGADPSSTLVSQQLWGLAQQLVDPARPGDFNQ
 AAMELGATVCTPQRPLCSQCPVESLRCRARQRVEQEQLLASGSLSGSPDVEECAPNTGQCHLCLPPSEPWD
 QTLGVVNFPRKASRKPPREESATCVLEQPGALGAQILLVQRPNSSLAGLWEPFVTPVPPGARWLTQEEFHTAAVSTAM
 KKVFRVYQGGQPGTCMGSKRQVSSPCSRKKPRMGQVLDNFFRSHISTDAHSLNSAAQ

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_001128425
ORF Size:	1647 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_001128425.2
RefSeq Size:	1945 bp
RefSeq ORF:	1650 bp
Locus ID:	4595
UniProt ID:	Q9UIF7
Cytogenetics:	1p34.1
Protein Families:	Druggable Genome, Stem cell - Pluripotency
Protein Pathways:	Base excision repair
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]