

Product datasheet for **MG209195**

Ythdf3 (BC057158) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ythdf3 (BC057158) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ythdf3
Synonyms:	9130022A11Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209195 representing BC057158
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTTCTATCTTGATTTGACTTTGCTTCATAGGGCAACAGAGAAACAGGCGAAGAATCATTTTCAGTAC
 AAAATGGTTTCGATTCATCAAAAAGATGCTGTAATGATGATGATTTTGGCCATACTTAAGTAGCCAGAC
 AAATCAGAATAACAGCTATCCACCAATGTCAGATCCATATATGCCTAGTTACTATGCTCCGTCATTGGA
 TTTCCATATTCTCTGGGGAAGCAGCATGGTCCACGGCTGGAGATCAGCCTATGCCATATCTGACAACT
 ATGGACAAATGAGTAATGGAGAACATCATTATATACCAGATGGTGTTTTTAGTCAACCAGGGGCATTAGG
 AAATACCCCTCCATTTCTGGTCAACATGGATTTAACTTTTTCTGGTAAATGCTGATTTCTACATGG
 GGAACAAGTGGATCTCAGGGACAATCAACACAAAATTCTGCTTATAGTAGCAGTTACGGCTATCCACCTA
 GTTCTCTGGGAGAGCTATTACTGATGGACAGGCCGATTGGCAATGATACTTTGAGTAAGGTGCCTGG
 CATTAGTAGTATTGAGCAAGGCATGACTGGACTGAAAATTTGGTGGTACCTGACAGCTGCGGTGACGAAA
 ACTGTAGGTACAGCCTTGAGCAGCAGTGGTATGACTAGCATTGCAACCAATAATGTGCCCCCTGTTAGCA
 GTGCAGCACCTAAACCAACTTCTGGGCTGCTATTGCCAGAAAGCCTGCAAAACCTCAGCCGAAACTTAA
 ACCCAAGGGCAATGTGGGAATTGGGGTTCTGCTGTGCCACCACCTCTATAAAAACAACATGAATATT
 GGAAGTTGGGATGAAAAGGGTCAAGTGGTAAAGGCTCCACCAACCAACCAAGTTCTGCCTCTCAAACCTA
 TAATCCAGCAGCCTCAGCCATTAATTCAACCACCACCATTTGGTCAAAGCCAAGTGCCTCAACAGCAGCC
 TCAGCCACCACAACCACAGCAGCAACAAGGACCTCAGCCACAGGCCCAGCCTCACCAAGTGCAGTCTCAA
 CAGCCACAGTTGCAGAATCGTTGGTGTGCTGCTGTAGTCTCACCTTCTAGTGTAGAGGTGCATCC
 AGGCAAGTGAACCTTTGGTTAGTGTGTGCTGTTAGTGTACCTTCTAGTGTAGAGGTGCATCC
 AGTGCTGGAAAACTAAAGGCCATAAACAAATTATAATCCCAAAGACTTTGATTGGAACCTGAAGAATGGA
 CGTGTGTTTATAATTAAGAGCTATTCTGAGGATGATATACATCGTTCCATCAAGTACTCTATCTGGTGT
 GACTGAGCATGGTAATAAGCGTTTGGATGCAGCTTATCGTTCCCTGAATGGGAAAGGCCACTCTATTT
 ACTCTTCAGTGTGAATGGCAGTGGACATTTTTGTGGAGTGGTGAATGAAGTCTGTTGTAGACTATAAT
 GCTTATGCTGGTGTCTGGTCTCAGGATAAGTGGAAAGGCAAAATTTGAAGTAAATGGATCTTTGTCAAAG
 ATGTTCCCAATAACCAATTACGACATATTCGCTTAGAAAAATAATGACAACAAACAGTAACCAATTCAAG
 GGACACTAAGAAGTACCCCTAGAAAAAGCAAAGCAAGTGTAAAATAATCGCTACTTTCAAGCATAACC
 ACCTCAATCTTTGATGACTTTGCACATTATGAAAAGCGTCAAGAGGAGGGAAGCCATGCGAAGGGAGA
 GAAATAGAAACAAGCAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209195 representing BC057158
 Red=Cloning site Green=Tags(s)

MFYLDL TLLHRATEETGEESFSVQNGSIHQKDAVNDDDFEPYLSSQTNQNNSYPPMSDPYMPYSYYAPSIG
 FPYSLGEAAWSTAGDQMPYLLTYGQMSNGEHYIPDGVFSQPGALGNTPPFLGQHGFNFFGNADFSTW
 GTSGSQGQSTQNSAYSSSYGYPPSSLGRAITDQAGFGNDLTKVPGISSIEQGMTGLKIGGDLTAAVTK
 TVGTALSSSGMTSIATNNVPPVSSAAPKPTSWAAIARKPAKPQPKLKPKNVIGGSAVPPPIKHNMI
 GTWDEKGSVVKAPPTQPVLPPQTIIQQPQPLIQPPPLVQSQLPQQQPQQPQQQPQAQPHVQSQ
 QPQLQNRWVAPRNRGTGFNQNNGTSENFGLVVVPVSASPSSVEVHPVLEKKAINNYPKDFDWNLNKNG
 RVFIIKSYSEDDIHRSIKYSIWCSIEHGNKRLDAAYRSLNGKGPLYLLFSVNGSGHFCGVAEMKSVVDYN
 AYAGVWSQDKWKGFVFKWIFVKDVPNNQLRHIRLENNNDNKPVTNSRDTQEVPLEKAKQVLKIIATFKHT
 TSIFDDFAHYEKRQEEEEAMRRERNRNKQ

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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:	BC057158 , AAH57158
RefSeq Size:	3173 bp
RefSeq ORF:	1769 bp
Locus ID:	229096
Cytogenetics:	3 A1
Gene Summary:	Specifically recognizes and binds N6-methyladenosine (m6A)-containing RNAs and promotes RNA translation efficiency (By similarity). M6A is a modification present at internal sites of mRNAs and some non-coding RNAs and plays a role in the efficiency of mRNA splicing, processing and stability (By similarity). Shares m6A-containing mRNAs targets with YTHDF1 and YTHDF2, and regulates different processes depending on the context (By similarity). Facilitates the translation of targeted mRNAs in cooperation with YTHDF1 by binding to m6A-containing mRNAs and interacting with 40S and 60S ribosome subunits (By similarity). Acts as a negative regulator of type I interferon response by down-regulating interferon-stimulated genes (ISGs) expression: acts by binding to FOXO3 mRNAs and promoting their translation (PubMed:30591559). Binds to FOXO3 mRNAs independently of METTL3-mediated m6A modification (PubMed:30591559). Can also act as a regulator of mRNA stability in cooperation with YTHDF2 by binding to m6A-containing mRNA and promoting their degradation (By similarity). Recognizes and binds m6A-containing circular RNAs (circRNAs) and promotes their translation (By similarity). circRNAs are generated through back-splicing of pre-mRNAs, a non-canonical splicing process promoted by dsRNA structures across circularizing exons (By similarity).[UniProtKB/Swiss-Prot Function]