

Product datasheet for **MC205938**

Ythdf1 (BC061479) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ythdf1 (BC061479) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ythdf1
Synonyms:	2210410K23Rik; 8030473O16
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC061479
 CCGCGCCCCCTCAGCCTGTCCGCTACCTTCCGCTGCTTCCGCTGTTCCGGCCCCGCTGCCTACAGCTGC
 CGCCGCGCCCCGGCCGACCCGCGGAGTTGGCGCGGGGCACGGGGCCGCGCGGGCGTGACAGGCCCGGC
 CTCGTGGGAGGCCGAGCCGGCGCGCCCGGGTCCCGCGCCGCGCTGTTTCATGAAGCATGTCGGCCACCA
 GCGTGGACCCCAAGAAACAAAAGGACAAGATAATAAAGTACAAAATGGTCTTTGCATCAGAAGGATGC
 AGTTCATGACAATGACTTTGAGCCCTACCTTTCTGGACAGTCCAATCCGAGTAACAGTTACCCCTCGATG
 AGTGCCTTACCTGTCCAGTTACTATCCACCATCCATTGGATTTCCTTACTCCCTCAGCGAGGCACCAT
 GGTCCACTGCAGGGACCCTCCCATCCCGTATCTCACTACCTATGGACAACCTTAGTAATGGAGACCATCA
 CTTTCATGCATGATGCTGTTTTGGGCGAGCCTGGGGTCTGGGGAACAACATTTACCAGCAGAGTTTAAT
 TTTTTCCCTGAAAACCCTGCATTCTCAGCATGGGGACAAGTGGTTCTCAGGGCAGCAGACTCAGAGCT
 CAGCCTATGGGAGCAGTTACCTTACCCACCTAGCTCCCTGGTGGCACAGTTGTTGATGGGCGAGCAGG
 TTTTCACAGTGACTCCCTCAACAAGGCCCTGGGATGAACAGTCTGGAGCAGGCATGGTTGGCCTGAAG
 ATTGGGGATGTTACCACCTCTGCAGTTAAGACGGTGGGTTCAAGTGTCAACAGTGTGGCACTGACTGGT
 TCCTTTCTGGCAATGGTGGGACAAATGTAACATGCCAGTTTCAAACCAACTTCATGGGCAGCCATTGC
 TAGCAAGCCTGCAAAACCACAGCCTAAGATGAAAACAAAGAGTGGCCGATAGTTGGGGTGCCTGCCT
 CCTCCCTATCAAGCATAACATGGACATTTGGTACTTGGGATAACAAGGGCCCTGCTCAAAGGCCCTCCG
 CCCCCAGCAGACACCATCCCCCAGGCTGCCCCACAGCCCAGCAGGTAGCTCAACCTCTCCCTGTTCA
 GCCCCACCTTTGGTCCAGCCACAGTATCAGAGCCCTCAGCAGCCACTTCAACCCCGCTGGTGGCTCCT
 CGAAACAGAAATGCAGCATTGGGCGAGTGGAGGGCCAAACAGTACAGTAACTCTGTTGAAATGCC
 AACCTACTTCTGCCCCGAGTGTAGAATCCCACCCTGTCTGGAGAACTGAAAGCTGCCACAGCTATAA
 CCCTAAGAGTTGCACTGGAATCTAAGAGTGGCGGGTGTTCATCATCAAGAGCTATTCTGAGGACGAC
 ATCCACCGCTCCATCAAGTACTCCATCTGGTGTAGTACTGAACACGGCAACAAGCGCCTGGACGGCGCT
 TCCGCTCCATGAGCAGCAAGGGCGCTGTTTATCTCCTTTCAGTGTCAATGGGAGTGGCAATTTCTGTG
 GGTGGCAGAGATGAAGTCCCCTGTGGACTACGGCACAGCGCTGGGGTCTGGTCTCAGGACAAGTGGAA
 GAAAGTTTGATGTGAAGTGGATTTTTGTGAAGGATGTGCCCAACAACCAGCTGCGGCACATCAGACTGG
 AGAATAACGACAACAACCTGTCAAACTCCCGTATACACAGGAGGTGCCCTTAGAAAAAGCAAAAACA
 AGTGTGAAGATTATCGCTTCTATAAGCACACAACCTCTATCTTTGACGACTTTTCTCATTATGAGAAG
 CGCCAGGAGGAAGAGGAGGTGGTGCCTAAGGAAAGACAGAATCGAAACAAACAATAAGAACAAGCCAGT
 TGTTTTGGTTAATGGTTGACTTTGAAAACAGAGTTTTAAAGCTGTATGCTTGGTGTCTCCGAGTCA
 GCTCCAGTGTCTCCTCGTGGGGTGGATTGTTGCATCTTATCTTTGTAGTTTCTTTTCCAGATGG
 ATCTGCATTCATTGTATTTTTCTATGTATTATAATATTGTAGAACTACTAATAAAGGAGTATTTTGT
 TGTGAGCTTATCAGTCAAGTACCTAATGCAAAATATAAATATTCTTCAAACAAAACACCTAATACAT
 CCCAAAGATATTTTTATTTGGCAGAAATTATGTTCTTATTCTTATATCTAGCCATTTAATATCCCTATA
 GGATACTTCATATTTCTGCTCTCCTGCTTTACAGCAAAACAAAAGGCCATTACAGCATGTGCTGTTGA
 TGTCTCTTACAGTACTGAAGTGGCTTGCATTTTACTATCTGTGGTATCCATCATATTGCTGACCTGCC
 CTTTTGAGTTTCTACTAGACAAATAACTTTTAGTTTTAAGTGTGCTCACAGCTGTCTATGGGCAAGCTG
 TCCATAGTTTGTGCCCACAGAGCGGTGCTCCAGTTCTCCTTGCACCCTGCTGCCACTGCATGAGGTT
 TGGGCTCTGTGGCAAGGAACTAGAAGGTGTTTTAAGTCTGGTTCAGCTTTGCGACATTCTTAGTTGTTG
 TAGATCATTTTTAGTTGCTCTTCTTCTCTAGAGAATCCTGATGCTGTCTTAAGTTTTATACCAGTA
 ACGCTAAGCTTTAATTGTAGGAATCTGATAGTACAGGCAGTGTGATGGATGCTGCTGCCACTGTAAATT
 TCACTGTGTGCTATTTTTTTTTCTGTTGAATGGGTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AA
 AA

Restriction Sites: RsrII-NotI
ACCN: BC061479
Insert Size: 1680 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	BC061479 , AAH61479
RefSeq Size:	2915 bp
RefSeq ORF:	1680 bp
Locus ID:	228994
Cytogenetics:	2 H4
Gene Summary:	Specifically recognizes and binds N6-methyladenosine (m6A)-containing mRNAs, and promotes mRNA translation efficiency (PubMed:30401835). 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 (PubMed:30401835). Acts as a regulator of mRNA translation efficiency: promotes ribosome loading to m6A-containing mRNAs and interacts with translation initiation factors eIF3 (EIF3A or EIF3B) to facilitate translation initiation (By similarity). Required to facilitate learning and memory formation in the hippocampus by enhancing protein synthesis upon neuronal stimulation: in response to neuronal stimulation, binds to m6A-containing neuronal mRNAs, promoting their translation, thereby contributing to learning and memory (PubMed:30401835). Acts as a regulator of axon guidance by binding to m6A-containing ROBO3 transcripts, thereby promoting their translation (PubMed:30843071). Acts as a negative regulator of antigen cross-presentation in myeloid dendritic cells (PubMed:30728504). Acts by binding and promoting translation of m6A-containing transcripts encoding proteins involved in lysosomal degradation and phagosome maturation, leading to increased antigen degradation in myeloid dendritic cells (PubMed:30728504). In the context of tumorigenesis, negative regulation of antigen cross-presentation limits the anti-tumor response by reducing efficiency of tumor-antigen cross-presentation (PubMed:30728504).[UniProtKB/Swiss-Prot Function]