

Product datasheet for MC200730

Ythdf2 (NM_145393) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ythdf2 (NM_145393) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ythdf2
Synonyms:	9430020E02Rik; HGRG8; NY-REN-2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

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This product is to be used for laboratory only. Not for diagnostic or therapeutic use.

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Fully Sequenced ORF: >BC014797 sequence for NM_145393
GCCGAGGCAGGGCTCCGAGTGTCAAGGACAAAGCCGCCGCCACCCCTCTGCTCCGTCGTCGGGCTC
ATCCGCCGCCGCCGTGCCGACGAGGACTCCGCCGCTGCCGAGGATCCGAGAGCCATGT
CGGCCAGCAGCCTCTTGAGCAGAGACAAAAGGTCAGGAACAAAGTACAAAATGGTTCTGTGATCA
AAAGGATGGACTAAATGATGATGATTTGAACCTTAAGGCCCACAGGCAAGGCCAATAATGCATAT
ACTGCCATGTCAAGCTCTACTTACCCAGTTACTACAGCCCTCCATTGGTTTCTATTCTTGGG
AAGCTGCTTGGTCACTGGAGGTGACAGCCATGCCCTACTAAGTCTATGGACAAGTCAACGG
AGAGCCCCACTTCTACCAGATGCAATGTTGGCAACCAGGAGCCCTAGGTAGCACTCCATTCTGGT
CAGCATGGTTTAATTTTCCAGTGGATTGACTCTCAGCATGGGAAATAACAGTTCTCAGGGAC
AGTCACTCAAAGCTGGATATAGTAGCAATTACGCTTATGCACCCAGCTCCTAGGTGGAGCCATGAT
TGATGGACAGTCAGCTTGGCAATGAGACCCCTAATAAGCTCAGGCATGAATACTATAGACCAAGGG
ATGGCAGCACTGAAACTAGGTAGCACAGAAGTTGCAAGCAGTGTCCAAAAGTTGAGGCTCTGTTG
GTAGTGGTCCATCACTAGTAACATTGTTGCTTAGCAGTTGCCAGCTACTATTGCTCCTCAA
ACCAGCATCTGGGCTGATATTGCTAGCAAGCCTGAAAACAACAGCCTAAACTGAAGACCAAGAATGGC
ATTGCAAGGATCAAGTCTCACCCACCCCCATAAAGCATAACATGGATATTGGAATTGGGATAACAAGG
GTCCTGTGGCAAAGCCCCCTCACAGGTTGGTCAAATAGGTCAAGCCAACCCAGGGATCTCTCA
GCCTGTTGGACAGCAGGCCATAATAGCCCACAGTGGCTCAGGCATCAGTAGGGCAACAGACGCCA
TTGCCCTCACCTCACACAGCCTGCTCAGCTCTCAGCCAGCAACAGGAGCTCAGCCAACTCGCTGG
TAGCACCTCGGAACCGTGGCAGTGGTTGGTCATAATGGGTTGGATGGTAATGGAGTAGGACAGTCTCA
GGCGGGTTCTGGATCTACTCCTCAGAGCCTCACCCGGTTGGAGAAACTCGGTCCATTAATAACTAT
AACCCCTAAAGATTCGACTGGAATCTGAAACATGGGGTTTCATCATTAAAGGCTACTCTGAGGACG
ATATCCACCGTTCATTAAGTATAATCTGGTCAGCACAGAGCATGGTAACAAGAGACTGGATGCCGC
CTATCGTTCCATGAATGGGAAGGGTCCCGTACTTACTTTCACTGTCACGGCAGTGGACACTCTGT
GGAGTTGCAGAGATGAAATCTGCTGTTGACTACAACACATGTGCAAGGTGTTGGCAGGACAAATGGA
AGGGTGTGTTGATGTCAAGATGGATTTGTGAAGGACGTTCCAATAGCCAATGCGACACATTGCT
AGAGAACACGAGAATAAACAGTGAACACTCTAGGGACACTCAGGAAGTGCCTGGAAAAGCTAAG
CAGGTGTTGAAATCATAGCCAGCTACAAGCACACCCTCCATTGATGACTTCACACTATGAGA
AACGCCAAGAGGAAGAAGAAGTGTAAAAAGGAACGTCAAGGTGTTGGAAATAGAAAGCGTTCTGCA
TAGACTGCAGCAACGGTTGCATCTCTTATCCTAAGAGGACACGATGACCTGCAAGAAAATTAGGACTT
TTTCTTAATTCATTGACTCAGAGACAATTGCAAATTGAGCTTGTATTGGAATTCAAAAAGA
CATAGGACTTAAGGAAATGGAAAAAAAAAAAAAA

Restriction Sites: RsrlI-NotI

ACCN: NM_145393

Insert Size: 1740 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:	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:	BC014797 , AAH14797
RefSeq Size:	2079 bp
RefSeq ORF:	1740 bp
Locus ID:	213541
UniProt ID:	Q91YT7
Cytogenetics:	4 D2.3
Gene Summary:	<p>Specifically recognizes and binds N6-methyladenosine (m6A)-containing RNAs, and regulates mRNA stability (PubMed:28867294, PubMed:29855337). M6A is a modification present at internal sites of mRNAs and some non-coding RNAs and plays a role in mRNA stability and processing (PubMed:28867294, PubMed:29855337). Acts as a regulator of mRNA stability by promoting degradation of m6A-containing mRNAs via interaction with the CCR4-NOT and ribonuclease P/MRP complexes, depending on the context (PubMed:30065315, PubMed:29855337). M6A-containing mRNAs containing a binding site for RIDA/HRSP12 (5'-GGUUC-3') are preferentially degraded by endoribonucleolytic cleavage: cooperative binding of RIDA/HRSP12 and YTHDF2 to transcripts leads to recruitment of the ribonuclease P/MRP complex (By similarity). Other m6A-containing mRNAs undergo deadenylation via direct interaction between YTHDF2 and CNOT1, leading to recruitment of the CCR4-NOT and subsequent deadenylation of m6A-containing mRNAs (By similarity). Required maternally to regulate oocyte maturation: probably acts by binding to m6A-containing mRNAs, thereby regulating maternal transcript dosage during oocyte maturation, which is essential for the competence of oocytes to sustain early zygotic development (PubMed:28867294). Also involved in hematopoietic stem cells specification by binding to m6A-containing mRNAs, leading to promote their degradation (PubMed:30065315, PubMed:30150673). Also acts as a regulator of neural development by promoting m6A-dependent degradation of neural development-related mRNA targets (PubMed:29855337). Regulates circadian regulation of hepatic lipid metabolism: acts by promoting m6A-dependent degradation of PPARG transcripts (By similarity). Regulates the innate immune response to infection by inhibiting the type I interferon response: acts by binding to m6A-containing IFNB transcripts and promoting their degradation (PubMed:30559377). Also acts as a promoter of cap-independent mRNA translation following heat shock stress: upon stress, relocates to the nucleus and specifically binds mRNAs with some m6A methylation mark at their 5'-UTR, protecting demethylation of mRNAs by FTO, thereby promoting cap-independent mRNA translation (By similarity). [UniProtKB/Swiss-Prot Function]</p>