

## Product datasheet for **MC219343**

### **Ythdf3 (NM\_001145919) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ythdf3 (NM_001145919) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ythdf3
Synonyms:	9130022A11Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC219343 representing NM\_001145919  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTCAGCCACTAGCGTGGATCAGAGACCTAAAGGGCAAGGAAATAAAGTTTCAGTACAAAATGGTTCGA  
TTCATCAAAAAGATGCTGTAAATGATGATGATTTTGGAGCCATACTTAAGTAGCCAGACAAATCAGAATAA  
CAGCTATCCACCAATGTCAGATCCATATATGCCTAGTTACTATGCTCCGTCCTATTGGATTCCATATTCT  
CTTGGGGAAGCAGCATGGTCCACGGCTGGAGATCAGCCTATGCCATATCTGACAACCTATGGACAAATGA  
GTAATGGAGAACATCATTATATACCAGATGGTGTTTTTAGTCAACCAGGGGCATTAGGAAATACCCCTCC  
ATTTCTTGGTCAACATGGATTTAACTTTTTCTGGTAATGCTGATTTCTCTACATGGGGAACAAGTGA  
TCTCAGGACAATCAACACAAAATCTGCTTATAGTAGCAGTTACGGCTATCCACCTAGTTCTCTGGGA  
GAGCTATTACTGATGGACAGGCCGATTGGCAATGATACTTTGAGTAAGTGCCTGGCATTAGTAGTAT  
TGAGCAAGGCATGACTGGACTGAAAATTTGGTGGTGACCTGACAGCTGCGGTGACGAAAACGTAGGTACA  
GCCTTGAGCAGCAGTGGTATGACTAGCATTGCAACCAATAATGTGCCCCCTGTTAGCAGTGCAGCACCTA  
AACCAACTTCTTGGGCTGCTATTGCCAGAAAGCCTGCAAAACCTCAGCCGAAACTTAAACCAAGGGCAA  
TGTGGGAATTGGGGTCTGCTGTGCCACCACCTCCTATAAAACACAACATGAATATTGGAACCTGGGAT  
GAAAAGGGTCAAGTGGTAAAGGCTCCACCAACCAACCAAGTCTGCTCCTCAAATAATCCAGCAGC  
CTCAGCCATTAATTCAACCACCACCTGGTGCAGGCAAGCCAACTGCCTCAACAGCAGCCTCAGCCACCACA  
ACCACAGCAGCAACAAGGACCTCAGCCACAGGCCAGCCTCACCAGTGCAGTCTCAACAGCCACAGTTG  
CAGAATCGTTGGTAGCTCCTCGGAATAGGGGAACCGGCTCAACCAGAACAATGGAACAGGCAGTGAAA  
ACTTTGGTTTGGTGTGCTGTTAGTGTTCACCTTCTAGTGTAGAGGTGCATCCAGTGTGGAAAA  
ACTAAAGGCCATAAACAATTATAATCCCAAGACTTTGATTGGAACCTGAAGAATGGACGTGTGTTATA  
ATTAAGAGCTATTCTGAGGATGATATACATCGTCCATCAAGTACTCTATCTGGTGTAGTACTGAGCATG  
GTAATAAGCGTTTGGATGCAGCTTATCGTTCCTGAATGGGAAAGGCCACTCTATTTACTTTCAGTGT  
GAATGGCAGTGGACATTTTGTGGAGTGGCTGAAATGAAGTCTGTTGTAGACTATAATGCTTATGCTGGT  
GTCTGGTCTCAGGATAAGTGGAAAGGCAAAATTTGAAGTAAATGGATCTTTGTCAAAGATGTTCCCAATA  
ACCAATTACGACATATTCGTTAGAAAATAATGACAACAACCAAGTAAACCAATTCAGGGGACTCAAGA  
AGTACCCCTAGAAAAAGCAAAGCAAGTGTAAAATAATCGCTACTTTCAAGCATACCACCTCAATCTTT  
GATGACTTTGCACATTATGAAAAGCGTCAAGAGGAGGAGGAAGCCATGCGAAGGGAGAGAAATAGAAACA  
AGCAATAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001145919

**Insert Size:** 1758 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:** [NM\\_001145919.1](#), [NP\\_001139391.1](#)

**RefSeq Size:** 5157 bp

**RefSeq ORF:** 1758 bp

**Locus ID:** 229096

**UniProt ID:** [Q8BYK6](#)

**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]