

Product datasheet for **MC218605**

Ythdf3 (BC057158) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ythdf3 (BC057158) 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: >BC057158
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTCTATCTTGATTTGACTTTGCTTCATAGGGCAACAGAGAAACAGGCGAAGAATCATTTTCAGTAC
 AAAATGGTTCGATTCATCAAAAAGATGCTGTAATGATGATGATTTTGAGCCATACTTAAGTAGCCAGAC
 AAATCAGAATAACAGCTATCCACCAATGTCAGATCCATATATGCCTAGTACTATGCTCCGTCCATTGGA
 TTTCCATATTCTCTGGGGAAGCAGCATGGTCCACGGCTGGAGATCAGCCTATGCCATATCTGACAACT
 ATGGACAAATGAGTAATGGAGAATCATTATATACCAGATGGTGTTCAGTCAACCAGGGGCATTAGG
 AAATACCCCTCCATTTCTGGTCAACATGGATTTAACTTTTTCTGGTAAATGCTGATTTCTACATGG
 GGAACAAGTGGATCTCAGGGACAATCAACACAAAATTCTGCTTATAGTAGCAGTTACGGCTATCCACCTA
 GTTCTCTGGGAGAGCTATTACTGATGGACAGGCCGATTTGGCAATGATACTTTGAGTAAGGTGCCTGG
 CATTAGTAGTATTGAGCAAGGCATGACTGGACTGAAAATTTGGTGGTACCTGACAGCTGCGGTGACGAAA
 ACTGTAGGTACAGCCTTGAGCAGCAGTGGTATGACTAGCATTGCAACCAATAATGTGCCCCCTGTTAGCA
 GTGCAGCACCTAAACCACTTCTGGGCTGCTATTGCCAGAAAGCCTGCAAAAACCTCAGCCGAAACTTAA
 ACCCAAGGGCAATGTGGGAATGGGGTCTGCTGTGCCACCACCTCCTATAAAAACAACATGAATATT
 GGAAGTGGGATGAAAAGGGTCAAGTGGTAAAGGCTCCACCAACCAACCAAGTTCGCCTCCTCAAACCTA
 TAATCCAGCAGCCTCAGCCATTAATTCAACCACCACCATTTGGTGCAGCAAGCAACTGCCTCAACAGCAGCC
 TCAGCCACCACAACCACAGCAGCAACAAGGACCTCAGCCACAGGCCAGCCTCACCAAGTGCAGTCTCAA
 CAGCCACAGTTGCAGAATCGTTGGTGTGCTCCTCGGAATAGGGGAACCGGCTTCAACCAGAACAATGGAA
 CAGGCAGTAAAACTTTGGTTAGGTGTTGTGCCTGTTAGTCTCACCTTCTAGTGTAGGGTGCATCC
 AGTGCTGGAAAACTAAAGGCCATAAACAATTATAATCCCAAAGACTTTGATTGGAACCTGAAGAATGGA
 CGTGTGTTTATAATTAAGAGCTATTCTGAGGATGATATACATCGTTCATCAAGTACTCTATCTGGTGT
 GACTGAGCATGGTAATAAGCGTTGGATGCAGCTTATCGTTCCTGAATGGGAAAGGCCACTCTATTT
 ACTCTTCAGTGTGAATGGCAGTGGACATTTTGTGGAGTGGCTGAAATGAAGTCTGTTGTAGACTATAAT
 GCTTATGCTGGTCTGGTCTCAGGATAAGTGGAAAGGCAAAATTTGAAGTAAATGGATCTTTGTCAAAG
 ATGTTCCCAATAACCAATTACGACATATTCGCTTAGAAAATAATGACAACAAACAGTAACCAATTCAG
 GGACACTAAGAAGTACCCCTAGAAAAAGCAAAGCAAGTGTAAAATAATCGCTACTTTCAAGCATACC
 ACCTCAATCTTTGATGACTTTGCACATTATGAAAAGCGTCAAGAGGAGGGAAGCCATGCGAAGGGAGA
 GAAATAGAAACAAGCAATAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** BC057158
- Insert Size:** 1770 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: [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]