

## Product datasheet for TP508856

### Ythdf1 (NM\_173761) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse YTH N6-methyladenosine RNA binding protein 1 (Ythdf1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR208856 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MSATSVDPQRTKQGQDNKVQNGSLHQKDAVHDNDFEPYLSGQSNPSNSYPSMSDPYLSSYPPSIGFPYSL SEAPWSTAGDPPPIPYLTTYGQLSNGDHHFMHDAVFGQPGGLGNNIYQHRNFFPENPAFAWGTSGSQGQ QTQSSAYGSSYTYPPSSLGGTVVDGQTGFHSDSLNKAPGMNSLEQGMVGLKIGDVTTSVAVKTGVSVNSV ALTGVLSGNGGTNVNMPVSKPTSWAAIASKPAKQPQPKMKTSGPIVGGALPPPIKHNDIGTWDNKGPA PKASAPQQTSPQAAPQPQQVAQPLVQPPPLVQPQYQSPQQPLQPRWVAPRNRNAAFGQSGGANSDSNS VGNAQPTSAPSVESHVLEKLKAAHSYNPKFEDWNLKSGRVFIKSYSEDDIHRSIKYSIWCSTEHGNKR LDGAFRSMSSKGPVYLLFSVNGSGHFCGVAEMKSPVDYGTSAQVWSQDKWKGKFDVKWIFVKDVPNNQLR HIRLENNDNKPVNTSRDTQEVPLEKAKQVLKIIASYKHTTSIFDDFSHYEKREEEEEVVRKERQNRNKQ</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
Tag:	C-MYC/DDK
Predicted MW:	60.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_776122</a>



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Locus ID: 228994

UniProt ID: [P59326](#)

RefSeq Size: 3199

Cytogenetics: 2 H4

RefSeq ORF: 1680

Synonyms: 2210410K23Rik; 8030473O16

**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]