

Product datasheet for **SC213819**

YTHDF1 (NM_017798) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	YTHDF1 (NM_017798) Human 3' UTR Clone
Symbol:	YTHDF1
Synonyms:	C20orf21
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_017798
Insert Size:	1309 bp



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Insert Sequence: >SC213819 3'UTR clone of NM_017798
The sequence shown below is from the reference sequence of NM_017798. The complete sequence of this clone may contain minor differences, such as SNPs.
Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
AAGGAACGGCAGAGTCGAAACAAACAATGAGGGCGAACCGATTTCTTACATGTTCTAACGTTTGACTTT
GAAAACAGTTTAAAACACGTGTGCTTGGTCAGCTCCAGTGTGCTGCCGTGCGGGGTTGAGTGTTC
ATCTTTGCCTTTCTTGTGCTTGATTTTTGCCAGATGGATCTGCATTTATTTGACTTTTTCTATGTAT
TATAATCTGTAGAAGTCACTAATAAAGGAGTATTTTTTTGTCAGCTTATCAATCAGACTGATCTAAT
GTGAAATGTAAGTATCCTTAAAAACAAAGCATCTATTTTGGCAGAAATTGTGTTCTAAATTCAGTCAT
TTGATATTCTGTGAGACTTCATATTTCTCATCCCTTTATTGCTTTTTAGCAAACATAAGAAACCATGAG
TCATTTTGTCAATTAGAGTATTCTGATAAAATCTCTTGAAAATACTGAAATCAAAGGTTAATGATTTT
TTGTTTCATTCTGATTTGTCAATTTATTATCTGTTATCGGTCTAAAGTGCTAATTTACCCATTTGATTTT
TCTGCTAGACAGATAACTTTTAAATTTTCAAATTTGGCAGACACTTTTTTTTTTTTTTGAATCTTT
CCTTCCAGATCTGTTGCCCACTGAACAGCCACCCGTCCCTCACTGTCCTGGTGTCCGATTGGGCTGGAT
GGTGTGGGGCATGATGTGTGGAGGAAGTGAAGGTGCTTTAGGTCTGGTTCAGGGTCGGGCATTCTTT
GTTGTTTGACATCTTTTAAATTTTACACCTTTTCTTAAGAATTCTAATGCCGTCTAAGTTTTTATA
CCAATAATGCTGAGCTTTAAGTGTAGGATCTGGTAGTACAGACAGTGTGATGGATGATGCTGCTGGTTG
TAAATTTTCATCGTGTGTCTAATTTTTTTCTGTTGAATGGGTAAAAACAAAACAAAATTTTTTTA
GAAGATGAATTTGCTGTGATGTTTGTGGAATGAGGGACCGTTGAGCTCACTACCACCTGGAGTTTGAG
TTGAAGCATGAAATGGTGCCCATGCCTGACGCTCCAGCGCTGGATCTGCACGTGCCCTTGAGAGGA
TCCTTACCGTCCCTAGAGAGCAGACGCTTTCTGAAAACACTTGGCTCCAAAAGACCCTCTGAGTTAACGT
TTCAGCTGTATCATTAGACTTGTATTTAGAGCGTGTCACTTCTCTGAACTGTTACTGCCTGAATGGAG
TCCTGGACGACATTGGGTTTTCTCTAGGAGAAATACAAGCCTTAATAAACAATACTATTTAGCAA
ACGCGTAAGCGGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCCTTCTATGAAAGG
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Restriction Sites: Sgfl-Mlul

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_017798.4](#)

Summary:

Specifically recognizes and binds N6-methyladenosine (m6A)-containing mRNAs, and promotes mRNA translation efficiency (PubMed:24284625, PubMed:26046440, PubMed:26318451). 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:24284625). 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 (PubMed:26046440). 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 (By similarity). Acts as a regulator of axon guidance by binding to m6A-containing ROBO3 transcripts, thereby promoting their translation (By similarity). Acts as a negative regulator of antigen cross-presentation in myeloid dendritic cells (By similarity). 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 (By similarity). In the context of tumorigenesis, negative regulation of antigen cross-presentation limits the anti-tumor response by reducing efficiency of tumor-antigen cross-presentation (By similarity).[UniProtKB/Swiss-Prot Function]

Locus ID:

54915

MW:

50.1