

Product datasheet for **RG201773**

THUMPD1 (NM_017736) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	THUMPD1 (NM_017736) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	THUMPD1
Synonyms:	Tan1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201773 representing NM_017736 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCCCTGCCAGCAGACTACTCAGCCTGGCGCGGGAAGCGCAAAGGCAAGGCTCAGTATGTGC
TGGCCAAGCGCGCTCGGCGCTGCGACGCTGGCGGGCCCCGTAGCTAGAGCCCGGCTACAGGGCATCCT
CATCACCTGCAATATGAACGAGCGCAAGTGCCTGGAGGAGGCTACAGCCTCCTCAACGAATACGGCGAC
GACATGTATGGCCAGAAAAGTTTACAGACAAGGATCAGCAGCCCTCTGGAAGTGAGGGAGAGGATGATG
ATGCGGAGGCTGCCTTGAAGAAAGAAGTTGGTGACATTAAGGCATCTACAGAGATGAGGTTAAGAAGATT
CCAGTCAGTGGAAAGTGGAGCAAATAACGTTGTCTTCATCAGGACACTTGGGATAGAGCCTGAGAAATTG
GTGCATCATATTCTCCAGGATATGTACAAAACCAAGAAAAAGAAGACTCGAGTTATTTGCGAATGTTAC
CCATCTCAGGCACATGCAAGGCTTTTTTGAAGATATGAAAAATATGCAGAAACATTTTTGGAACCCTG
GTTTAAAGCTCCAAACAAAGGGACATTTTTCAGATTGTGTACAAATCTCGAAATAACAGTCATGTGAATAGA
GAAGAAGTTATCAGAGAATTGGCAGGAATAGTGTGCACCCTCAATTCAGAAAAATAAGTGGATCTCACCA
ATCCACAGTACACAGTGGTAGTAAATCATCAAAGCTGTCTGTTGCCTGAGTGTGTGAAAAGATTACAT
GTTGTTTAGAAAAACAATCTCCAGGAGGTGGTGAAGAGCCCTAAGGATCCGTCACAGCTTAACCTCAAAG
CAGGAAAATGGAAAGAAGCTAACTGGAATCTGCGGACAAATCAGACAAAACAACACAGCAGAAGGAA
AAAATAACCAGCAGGTACCAGAGAATACTGAGGAGCTGGGGCAGACAAAACCAACGCTCTAATCCACAGGT
GGTAAATGAGGGAGGAGCCAAACCTGAACTTGCAAGTCAAGCCACAGAAGGATCCAAGTCAAATGAAAAT
GACTTCTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201773 representing NM_017736
 Red=Cloning site Green=Tags(s)

MAAPAQQTTPGGGKRKGAQYVLAKRARRCDAGGPRQLEPGLQGILITCNMNERKCVEEAYSLLNEYGD
 DMYGPEKFTDKDQQPSGSEGEDDDAEALKKEVGDIAKSTEMLRRFQSVESGANNVVFIRTLGIEPEKL
 VHHILQDMYKTKKKKTRVILRMLPISGTCKAFLEDMKKYAETFLEPWFKAPNKGTFQIVYKSRNNSHVNR
 EEVIRELAGIVCTLNSENKVDLTNPQYTVVVEIIKAVCCLSVVKDYMLFRKYNLQEVVKS PKDPSQLNSK
 QGNGKEAKLESADKSDQNNTAEGKNNQVPEPENTEELGQTKPTSNPQVVNEGGAKPELASQATEGSKSNEN
 DFS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_017736

ORF Size: 1059 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_017736.5](#)

RefSeq Size: 4416 bp

RefSeq ORF: 1062 bp

Locus ID: 55623

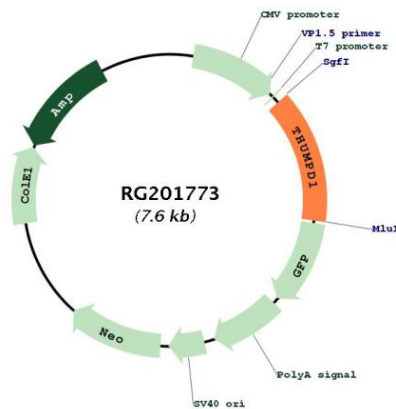
UniProt ID: [Q9NXG2](#)

Cytogenetics: 16p12.3

Domains: THUMP

Gene Summary: Functions as a tRNA-binding adapter to mediate NAT10-dependent tRNA acetylation (PubMed:25653167).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG201773