

Product datasheet for **MG205295**

Thumpd1 (BC004776) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Thumpd1 (BC004776) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Thumpd1
Synonyms:	MGC7161
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205295 representing BC004776 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGACCACCGCCAGCAGTCCCCTCAGCCTGTTGCCGAAAGCGCAAAGGCAAATCCCAGTTCCTGC
CGGCCAAGCGGGCCGACGCGGTGACGCAGGCGGCCCGCGGCAGCTGGAGCCCGCCTGCAGGGCATCCT
CATCACCTGCAACATGAACGAGCGCAAGTGCCTGGAGGAGGCCTACAGCCTGCTCAACGAGTACGGCGAC
GACATGTACGGGCGGAAAAGTTTATAGACAAGGACCAGCAGCCCTCTGGAAGTGAGGGAGAAGACGATG
ATGCAGAGGCTGCCTTGAAGAAAGAAGTTGGTGACATTAAGCCTTCTACAGAGAAGAGGCTGAGAAGATT
CCAGTCAGTGGAGAGTGGAGCGAATAATGTAGTCTTCATCAGGACGCTTGGGATAGAACCCTGAGAAATTA
GTGCATCATATTTCCAGGATATGTACAAAACCAAGAAAAAGAAGACAAGGGTTATTCTACGAATGCTGC
CCATCTCAGGCACATGTAAGCTTTTTTGAAGATATGAAAAATATGCAGAAACATTTCTGGAACCCTG
GTTTAAAGCCCCAAACAAGGGACATTTTCAGATTGTATACAAATCTCGAAACAATAGCCATATGAATAGA
GAAGAAGTTATTAAGAGTTGGCAGGAATAGTGGGCAGCCTCAATTCAGAAAAACAAGTGGATCTCACTA
ATCCAGAATACACGGTGGTAGTGAAATCATCAAAGCTGTGTGTTGCCTGAGTGTGTGAAAGATTATGT
GCTGTTTCAGAAAATACAACCTCCAAGAAGTGGTGAAGAGTGCAAAAGACTCGCAGCCTCACCAAAGCTG
GGAAATGGCAAAGAAGCAAAATTTGAACTGATAGCAAGTTGAGTCAGAGTGATCCCCCAGAAGGGAACC
AGGTGGCACCAGAGAGTATCGAGGAGCTCGGGCAGACAGAGCCGGGTCTGAAACCCAGGCGGGAGTGA
AGGAGACGCTAAACCTGAACCTGAAAGTCAAGTCTCAGAAGTACCAAGCAAAATGAAAATGAGCTCTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205295 representing BC004776
 Red=Cloning site Green=Tags(s)

MATTAQQSQPQPVAGKRKKGKSQLPAKRARRGDAGGPRQLEPGLQGILITCNMNERKCVVEEAYSLLNEYGD
 DMYGPEKFIKDKQQPSGSEGEDDDAEALKKEVGDIAKASTEKRLRRFQSVESGANNVVFIRTLGIEPEKL
 VHHILQDMYKTKKKKTRVILRMLPISGTCKAFLEDMKKYAETFLEPWFKAPNKGTFQIVYKSRNNSHMNR
 EEVIKELAGIVGSLNSENKVDL TNPEYTVVVEI IKA VCCLSVVKDYVLFRKYNLQE VVKS AKDSQPHPKL
 GNGKEAKLEPDSKLSQSDPPEGNQVAPESIEELGQTEPGSETQAGSEGDAPPEPEVQVSEVPKTNENELS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC004776

ORF Size: 1052 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: [BC004776](#), [AAH04776](#)

RefSeq Size: 2668 bp

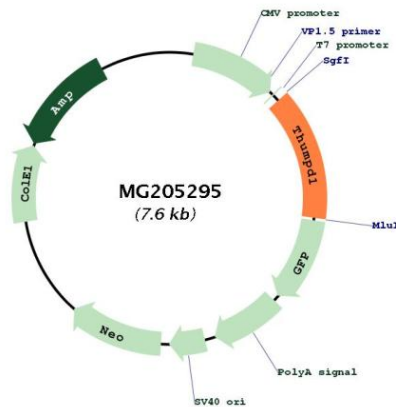
RefSeq ORF: 1052 bp

Locus ID: 233802

Cytogenetics: 7 64.13 cM

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

Product images:



Circular map for MG205295