

## Product datasheet for **RG205969**

### TM2D1 (NM\_032027) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TM2D1 (NM\_032027) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** TM2D1  
**Synonyms:** BBP  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG205969 representing NM\_032027  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGGCCCGCTGGCCGTCTGGTCCGTCTGCTCCGGAGGCCGTGACGGCCAGACTCGTTGGTGTCTGT  
 GGTTTCGTCTCAGTCACTACAGGACCTGGGGGGCTGTTGCCACCTCCGCCGGGGCGAGGAGTCGCTTAA  
 GTGCGAGGACCTCAAAGTGGGACAATATATTTGTAAGATCCAAAAATAATGACGCTACGCAAGAACCA  
 GTTAACTGTACAACTACACAGCTCATGTTTCTGTTTTCCAGCACCCAACATAACTTGAAGGATTCCA  
 GTGGCAATGAAACACATTTTACTGGGAACGAAGTTGGTTTTTTCAAGCCCATATCTTGCCGAAATGTA  
 TGGCTATTCTACAAAGTGGCAGTCGCATTGTCTCTTTTTCTTGGATGGTTGGGAGCAGATCGATTTTAC  
 CTTGGATACCCTGCTTTGGGTTTGTAAAGTTTTGCACGTAGGGTTTTGTGGAATTGGGAGCCTAATTG  
 ATTTCAATCTTATTTCAATGCAGATTGTTGGACCTTCAGATGGAAGTAGTTACATTATAGATTACTATGG  
 AACCAGACTTACAAGACTGAGTATTACTAATGAAACATTTAGAAAAACGCAATTATATCCA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG205969 representing NM\_032027  
 Red=Cloning site Green=Tags(s)

MAAAWPSGPSAPEAVTARLVGVLWVSVTTGPWGAVATSAGGEEESLKCEDLKVGQYICKDPKINDATQEP  
 VNCTNYTAHVSCFPAPNITCKDSSGNETHFTGNEVGFKPISCRNVNGYSYKVAVALSLFLGWLGADRFY  
 LGYPALGLLKFCYVGFVCGIGSLIDFILISMQIVGPSDSSSYIIDYYGTRLTRLSITNETFRKTQLYP

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



[View online »](#)

**Cloning Scheme:**


**ACCN:** NM\_032027

**ORF Size:** 621 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\\_032027.3](#)

**RefSeq Size:** 1250 bp

**RefSeq ORF:** 624 bp

**Locus ID:** 83941

**UniProt ID:** [Q9BX74](#)

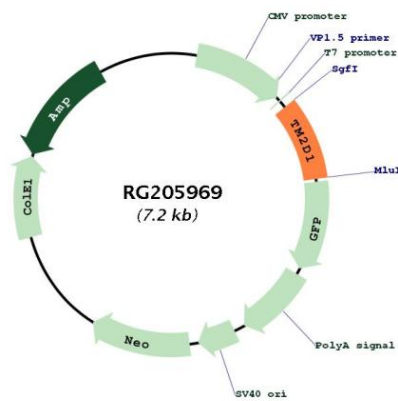
**Cytogenetics:** 1p31.3

**Domains:** TM2

**Protein Families:** Druggable Genome, Transmembrane

**Gene Summary:** The protein encoded by this gene is a beta-amyloid peptide-binding protein. It contains a structural module related to that of the seven transmembrane domain G protein-coupled receptor superfamily and known to be important in heterotrimeric G protein activation. Beta-amyloid peptide has been established to be a causative factor in neuron death and the consequent diminution of cognitive abilities observed in Alzheimer's disease. This protein may be a target of neurotoxic beta-amyloid peptide, and may mediate cellular vulnerability to beta-amyloid peptide toxicity through a G protein-regulated program of cell death. Several transcript variants have been found for this gene. [provided by RefSeq, Feb 2016]

**Product images:**



Circular map for RG205969