

Product datasheet for RC205969

TM2D1 (NM 032027) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: TM2D1 (NM_032027) Human Tagged ORF Clone

Tag: Myc-DDK TM2D1

BBP Synonyms:

Mammalian Cell Neomycin

Selection:

Symbol:

Vector: pCMV6-Entry (PS100001) E. coli Selection: Kanamycin (25 ug/mL) **ORF Nucleotide** >RC205969 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s) Sequence:

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCGGCCGCCTGGCCGTCTGGTCCGTCTGCTCCGGAGGCCGTGACGGCCAGACTCGTTGGTGTCCTGT GGTTCGTCTCAGTCACTACAGGACCCTGGGGGGGCTGTTGCCACCTCCGCCGGGGGGCGAGGAGTCGCTTAA GTTAACTGTACAAACTACACAGCTCATGTTTCCTGTTTTCCAGCACCCAACATAACTTGTAAGGATTCCA GTGGCAATGAAACACATTTTACTGGGAACGAAGTTGGTTTTTTCAAGCCCATATCTTGCCGAAATGTAAA TGGCTATTCCTACAAAGTGGCAGTCGCATTGTCTCTTTTTCTTGGATGGTTGGGAGCAGATCGATTTTAC CTTGGATACCCTGCTTTGGGTTTGTTAAAGTTTTGCACTGTAGGGTTTTGTGGAATTGGGAGCCTAATTG ATTTCATTCTTATTTCAATGCAGATTGTTGGACCTTCAGATGGAAGTAGTTACATTATAGATTACTATGG AACCAGACTTACAAGACTGAGTATTACTAATGAAACATTTAGAAAAACGCAATTATATCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

>RC205969 protein sequence **Protein Sequence:**

Red=Cloning site Green=Tags(s)

MAAAWPSGPSAPEAVTARLVGVLWFVSVTTGPWGAVATSAGGEESLKCEDLKVGQYICKDPKINDATQEP VNCTNYTAHVSCFPAPNITCKDSSGNETHFTGNEVGFFKPISCRNVNGYSYKVAVALSLFLGWLGADRFY LGYPALGLLKFCTVGFCGIGSLIDFILISMQIVGPSDGSSYIIDYYGTRLTRLSITNETFRKTQLYP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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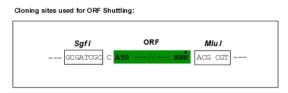


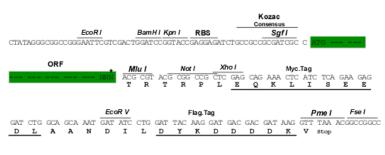
Chromatograms: https://cdn.origene.com/chromatograms/mk6074 h06.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

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.

RefSeg: 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

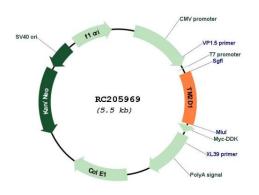
MW: 22.3 kDa

Gene Summary: The protein encoded by this gene is a beta-amyloid peptide-binding protein. It contains a

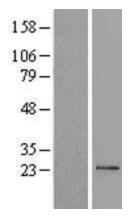
structural module related to that of the seven transmembrane domain G protein-coupled receptor superfamily and known to be important in heterotrimeric G protein activation. Beta-amyloid peptide has been established to be a causative factor in neuron death and the consequent diminution of cognitive abilities 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 RC205969



Western blot validation of overexpression lysate (Cat# [LY410360]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205969 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).