

Product datasheet for **RC203014**

TM2D3 (NM_078474) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TM2D3 (NM_078474) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TM2D3
Synonyms:	BLP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203014 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGGAGGGGTGCGCCCGCTGAGGGGCCTCCGCGCCTTGTGTCGCGTGCTGCTTCTCTCGCAGT
TCTGCATTCTGTCGGGCGGTGAGCAATCGCAGGCGCTGGCTCAGTCAATAAAGGATCCGGGCCAACACG
CACATTCACAGTAGTTCCAGGGCAGCAGAAAGTACTGAAATCCACCTTATGTGATGAAGTGCCGAGC
AATGGTTTGTGTAGCAGGCTTCTGCAGACTGTATAGACTGCACAACAAATTTCTCTGTACCTATGGGA
AGCCTGCACTTTTACTGTGCAGTGAAACCATCTGTTACCTGTGTTGATCAAGACTTCAAATCCAAAA
GAACTTCATCATTAAACATGACTTGCAGATTTTGTCTGGCAGCTTCTGAAACAGATTACGAGTGTACCAAC
TCCACCAGCTGCATGACGGTGTCTGTCTCGGCAGCGCTACCCTGCCAACTGCACGGTGCGGGACCACG
TCCACTGCTTGGGTAACCGTACTTTTCCAAAAATGCTATATTGCAATTGGACTGGAGGCTATAAGTGGTC
TACGGCTCTGGCTCTAAGCATCACCTCGGTGGGTTTGGAGCAGACCGTTTCTACCTGGGCCAGTGGCGG
GAAGGCCCTCGGCAAGCTTTCAGCTTCGGTGGCCTGGGAATATGGACGCTGATAGACGTCCTGCTCATTG
GAGTTGGCTATGTTGGACCAGCAGATGGCTCTTTGTACATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC203014 protein sequence
 Red=Cloning site Green=Tags(s)

MAGGVRPLRGLRALCRVLLFLSQFCILSGGEQSQALAQSIKDPGPTRTFTVVPRAAESTEIPPYVMKPCS
 NGLCSRLPADCIDCTTNFSCTYKPVTFDCAVKPSVTCVDQDFKSQKNFIINMTCRCFWQLPETDYECTN
 STSCMTVSCPRQRYPANCTVRDHVHCLGNRTFPKMLYCNWTTGGYKWTALALSITLGGFGADRFYLGQWR
 EGLGKLSFGGLGIWTLIDVLLIGVGYVGPADGSLYI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6144_d09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_078474

ORF Size: 741 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_078474.1](#), [NP_510883.1](#)

RefSeq Size: 1421 bp

RefSeq ORF: 744 bp

Locus ID: 80213

UniProt ID: [Q9BRN9](#)

Cytogenetics: 15q26.3

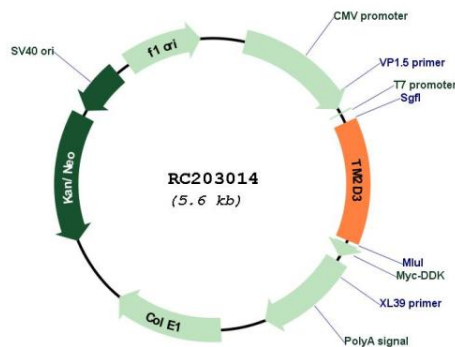
Domains: TM2

Protein Families: Druggable Genome, Transmembrane

MW: 27.2 kDa

Gene Summary: The protein encoded by this gene contains a structural module related to that of the seven transmembrane domain G protein-coupled receptor superfamily. This protein has sequence and structural similarities to the beta-amyloid binding protein (BBP), but, unlike BBP, it does not regulate a response to beta-amyloid peptide. This protein may have regulatory roles in cell death or proliferation signal cascades. Several alternatively spliced transcript variants of this gene are described but the full length nature of some variants has not been determined. Multiple polyadenylation sites have been found in this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC203014