

## Product datasheet for RC213107

### TM2D2 (NM\_078473) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TM2D2 (NM_078473) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TM2D2
Synonyms:	BLP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC213107 representing NM_078473 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGCTAGGTGGTTGCCCGTTAGTTACTTACTTCTGTGCGGCCAGGCGGTTTTGCTGCTGGGAATT  
TACTTCTGCTGCATTGTGTCTCGGAGCCACTCGAAAATGCGACCGCTGAGCCTGAGCTCACATCCGC  
TGGCGCCGCCAGCCGGAGGGCCCCGGGGTGCTGCGAGCTGGGAATATGGCGACCCCACTCTCCGGTC  
ATCCTCTGCTCTTACCTACCTGATGAATTTATAGAATGTGAAGACCCAGTGGATCATGTTGAAAATGCAA  
CTGCATCCAGGAACCTTGTTATGGTTGTCTCAAGTTCGGCGGTCAGGCCTACAGCGACGTGGAACACAC  
TTCAGTCCAGTGCCATGCCTTAGATGGAATTGAGTGTGCCAGTCCTAGGACCTTTCTACGAGAAAATAAA  
CCTTGATAAAAGTATACCGGACACTACTTCATAACCACCTTACTCTACTCCTTCTCCTGGGATGTTTTG  
GTGTGGATCGATTCTGTTTGGGACACACTGGCACTGCAGTAGGGAAGCTGTTGACGCTTGGAGGACTTGG  
GATTTGGTGGTTTGTGACCTTATTTTGCTAATTACTGGAGGGCTGATGCCAAGTATGCGACGAACTGG  
TGCCTGTTTAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC213107 representing NM\_078473  
Red=Cloning site Green=Tags(s)

MVLGGCPVSYLLLCGQAVLLGNLLLLHCVSRSHSQNATAEPELTSAGAAQPEGPGAASWEYGDPHSPV  
 ILCSYLPDEFIECEDPVDHVGNATASQELGYGCLKFGGQAYSDEHTSVQCHALDGI ECASPRTFLENK  
 PCIKYTGHYFITLLYSFFLGCFGVDRFCLGHTGTAVGKLLTLGGLGIWWFVDLILLITGGLMPSDGSNW  
 CTVY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6106\\_h10.zip](https://cdn.origene.com/chromatograms/mk6106_h10.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_078473

**ORF Size:** 642 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\\_078473.3](#)

**RefSeq Size:** 3252 bp

**RefSeq ORF:** 645 bp

**Locus ID:** 83877

**UniProt ID:** [Q9BX73](#)

**Cytogenetics:** 8p11.22

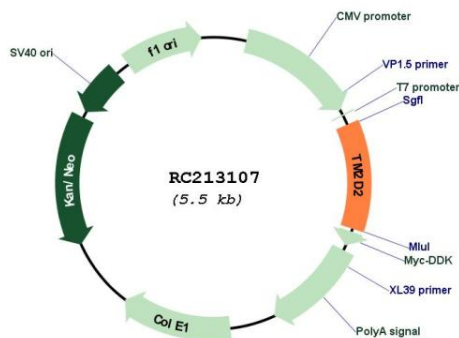
**Domains:** TM2

**Protein Families:** Druggable Genome, Transmembrane

**MW:** 22.7 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. This gene has multiple alternatively spliced transcript variants which encode two different isoforms. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RC213107