

Product datasheet for RC229814

TMIGD2 (NM_001169126) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMIGD2 (NM_001169126) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TMIGD2
Synonyms:	CD28H; IGPR-1; IGPR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC229814 representing NM_001169126 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGGGTCCCCGGGCATGGTGCTGGGCCTCCTGGTGCAGATCTGGGCCCTGCAAGAAGCCTCAAGCCTGA
 GCGTGACGACGGGGCCCACTTGTCTGCAGGTGAGGCAGGGCAGTCAGGCGACCCTGGTCTGCCAGGTGGA
 CCAGGCCACAGCCTGGGAACGGCTCCGTGTTAAGTGGACAAAGGATGGGGCCATCCTGTGTCAACCGTAC
 ATCACCACGGCAGCCTCAGCCTGGGGGTCTGCGGGCCCCAGGGACGGCTCTCCTGGCAGGCACCCAGCC
 ATCTCACCTGCAGCTGGACCCTGTGAGCCTCAACCACAGCGGGCGTACGTGTGCTGGGCGGCCGTAGA
 GATTCTGAGTTGGAGGAGGCTGAGGGCAACATAACAAGGCTCTTTGTGGACCCAGATGACCCACACAG
 AACAGAAACCGGATCGCAAGCTTCCCAGGATTCCTCTTCGTGCTGCTGGGGGTGGGAAGCATGGGTGTGG
 CTGCGATCGTGTGGGGTGCCTGGTTCTGGGGCCGCCGAGCTGCCAGCAAAGGGACTCAGGAAATGCATT
 CTACAGCAACGTCCTATACCGGCCCGGGGGGCCCAAGAAGAGTGAGGACTGCTCTGGAGAGGGGAAG
 GACCAGAGGGGCCAGAGCATTTATTCAACCTCCTTCCCGCAACCGGCCCGCCAGCCGACCTGGCGT
 CAAGACCCTGCCCCAGCCGAGACCCTGCCCCAGCCCCAGGCCCGGCCACCCCGTCTCTATGGTCAGGGT
 CTCTCTAGACCAAGCCCCACCCAGCAGCCGAGGCCAAAGGGTTCCCCAAAGTGGGAGAGGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >RC229814 representing NM_001169126
 Red=Cloning site Green=Tags(s)

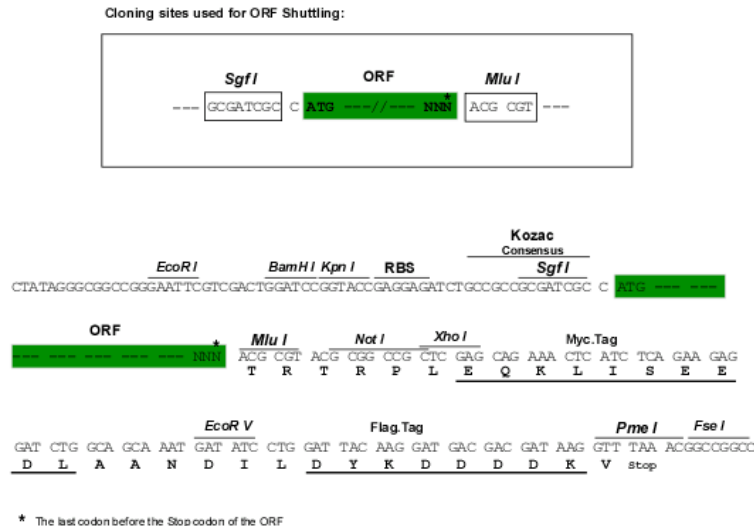
MGSPGMVLGLLVQIWALQEASSLSVQQGNLLQVRQGSQATLVCQVDQATAWERLRVKWKDGAILCQPY
 ITNGSLSLGVCQPQGRLSWQAPSHLTLQLDPVSLNHSYGAYVCWAAVEIPELEEAEGNITRLFVDPDDPTQ
 NRNRIASFPGFLFVLLGVGSMGVAAIIVGAWFWGRRSCQQRDSGNAFYSNVL YRPRGAPKKS EDCSGEGK
 DQRGQSIYSTSFPQAPRQPHLASRPCSPRPCSPRPGHPVSMVRVSPRPSPPTQQPRPKGF PKVGEE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8048_h06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001169126

ORF Size: 834 bp

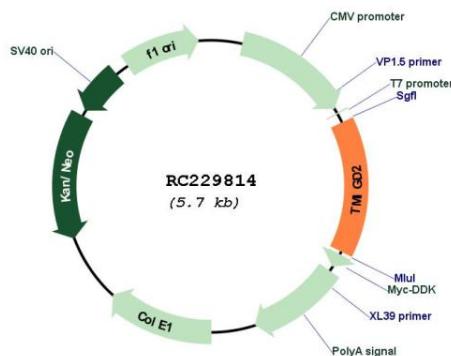
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

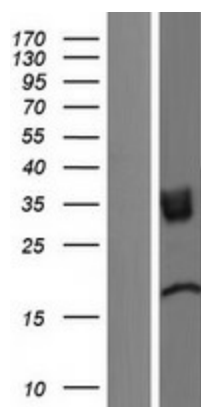
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001169126.1, NP_001162597.1</u>
RefSeq ORF:	837 bp
Locus ID:	126259
UniProt ID:	<u>Q96BF3</u>
Cytogenetics:	19p13.3
Protein Families:	Transmembrane
MW:	30.8 kDa
Gene Summary:	Plays a role in cell-cell interaction, cell migration, and angiogenesis. Through interaction with HHLA2, costimulates T-cells in the context of TCR-mediated activation. Enhances T-cell proliferation and cytokine production via an AKT-dependent signaling cascade. [UniProtKB/Swiss-Prot Function]

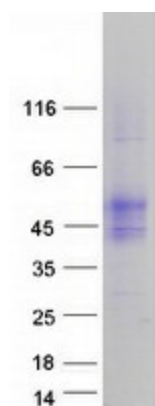
Product images:



Circular map for RC229814



Western blot validation of overexpression lysate (Cat# [LY432814]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC229814 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TMIGD2 protein (Cat# [TP329814]). The protein was produced from HEK293T cells transfected with TMIGD2 cDNA clone (Cat# RC229814) using MegaTran 2.0 (Cat# [TT210002]).