

Product datasheet for **RG229814**

TMIGD2 (NM_001169126) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMIGD2 (NM_001169126) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TMIGD2
Synonyms:	CD28H; IGPR-1; IGPR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG229814 representing NM_001169126 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGTCCCCGGGCATGGTGCTGGGCCTCCTGGTGCAGATCTGGGCCCTGCAAGAAGCCTCAAGCCTGA
 GCGTGACGACGGGGCCAACTTGCTGCAGGTGAGGCAGGGCAGTCAGGCGACCCTGGTCTGCCAGGTGGA
 CCAGGCCACAGCCTGGGAACGGCTCCGTGTTAAGTGGACAAAGGATGGGGCCATCCTGTGTCAACCGTAC
 ATCACCACGGCAGCCTCAGCCTGGGGGTCTGCGGGCCCCAGGGACGGCTCTCCTGGCAGGCACCCAGCC
 ATCTCACCTGCAGCTGGACCCTGTGAGCCTCAACCACAGCGGGCGTACGTGTGCTGGGCGGCCGTAGA
 GATTCTGAGTTGGAGGAGGCTGAGGGCAACATAACAAGGCTCTTTGTGGACCCAGATGACCCACACAG
 AACAGAAACCGGATCGCAAGCTTCCCAGGATTCCTCTTCGTGCTGCTGGGGGTGGGAAGCATGGGTGTGG
 CTGCGATCGTGTGGGTGCCTGGTTCTGGGGCCGCCGAGCTGCCAGCAAAGGGACTCAGGAAATGCATT
 CTACAGCAACGTCCTATACCGCCCCGGGGGGCCCCAAAGAAGAGTGAGGACTGCTCTGGAGAGGGGAAG
 GACCAGAGGGGCCAGAGCATTTATTCAACCTCCTTCCCGCAACCGGCCCGCCAGCCGACCTGGCGT
 CAAGACCCTGCCCCAGCCGAGACCCTGCCCCAGCCCCAGGCCCGGCCACCCCGTCTCTATGGTCAGGGT
 CTCTCTAGACCAAGCCCCACCCAGCAGCCGAGGCCAAAGGGTTCGCCAAAGTGGGAGAGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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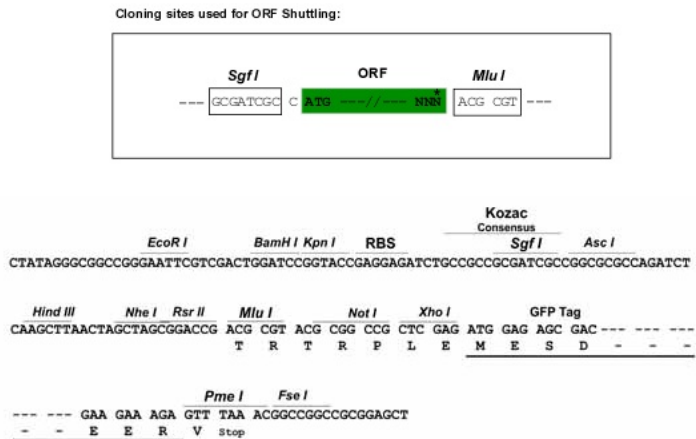
Protein Sequence: >RG229814 representing NM_001169126
 Red=Cloning site Green=Tags(s)

MGSPGMVLGLLVQIWALQEASSLSVQQGPNLLQVRQGSQATLVCQVDQATAWERLRVKWKDGAILCQPY
 ITNGSLSLGVCGPQGRLSWQAPSHLTLQLDPVSLNHSGAYVCWAAVEIPELEEAEGNITRLFVDPDDPTQ
 NRNRIASFPGFLFVLLGVGSMGVAAIIVGAWFWGRRSCQQQDSGNFYSNVLYRPRGAPKKSSEDCSGEGK
 DQRGQSIYSTSFPQAPRQPHLASRPCSPRPCSPRPGHPVSMVRVSPRPSPTQQPRPKGFPKVGEE

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001169126

ORF Size: 834 bp

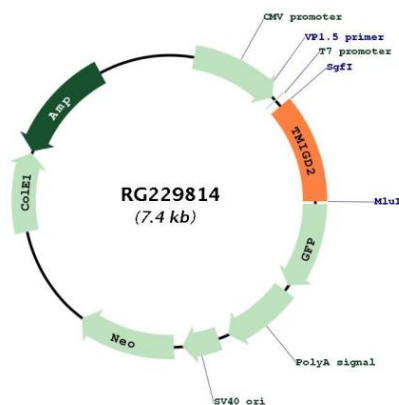
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
RefSeq:	<u>NM_001169126.1, NP_001162597.1</u>
RefSeq Size:	1270 bp
RefSeq ORF:	837 bp
Locus ID:	126259
UniProt ID:	<u>Q96BF3</u>
Cytogenetics:	19p13.3
Protein Families:	Transmembrane
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 RG229814