

## Product datasheet for **SC328452**

### TMIGD2 (NM\_001169126) Human Untagged Clone

#### Product data:

|                           |                                                                                            |
|---------------------------|--------------------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                                        |
| Product Name:             | TMIGD2 (NM_001169126) Human Untagged Clone                                                 |
| Tag:                      | Tag Free                                                                                   |
| Symbol:                   | TMIGD2                                                                                     |
| Synonyms:                 | CD28H; IGPR-1; IGPR1                                                                       |
| Mammalian Cell Selection: | Neomycin                                                                                   |
| Vector:                   | pCMV6-Entry (PS100001)                                                                     |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                                                       |
| Fully Sequenced ORF:      | >SC328452 representing NM_001169126.<br>Blue=Insert sequence Red=Cloning site Green=Tag(s) |

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GCTCGTTTGTAGTAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC
ATGGGGTCCCCGGGCATGGTGTGGGCCTCCTGGTGCAGATCTGGGCCCTGCAAGAAGCCTCAAGCCTG
AGCGTGCAGCAGGGGCCAACTTGCTGCAGGTGAGGCAGGGCAGTCAGGCGACCCTGGTCTGCCAGGTG
GACCAGGCCACAGCCTGGGAACGGCTCCGTGTTAAGTGGACAAAGGATGGGGCCATCCTGTGTCAACCG
TACATCACCAACGGCAGCCTCAGCCTGGGGGTCTGCGGGCCCCAGGGACGGCTCTCCTGGCAGGCACCC
AGCCATCTCACCTGCAGCTGGACCCTGTGAGCCTCAACCACAGCGGGGCGTACGTGTCTGGGCGGCC
GTAGAGATTCTGAGTTGGAGGAGGCTGAGGGCAACATAACAAGGCTCTTTGTGGACCCAGATGACCCC
ACACAGAACAGAAACCGGATCGCAAGCTTCCCAGGATTCTCTTCGTGCTGCTGGGGGTGGGAAGCATG
GGTGTGGCTGCGATCGTGTGGGGTGCTGTTCTGGGGCCGCGCAGCTGCCAGCAAAGGGACTCAGGA
AATGCATTCTACAGCAACGTCTATACCGGCCCGGGGGGCCCAAGAAGAGTGAGGACTGCTCTGGA
GAGGGGAAGGACCAGAGGGGCCAGAGCATTTATTCAACCTCCTTCCCGCAACCGGCCCCCGCCAGCCG
CACCTGGCGTCAAGACCTGCCCGAGCCGAGACCCTGCCCGAGCCCCAGGCCGGCCACCCCGTCTCT
ATGGTCAGGTCCTCTCTAGACCAAGCCCCACCCAGCAGCCGAGGCCAAAAGGGTTCCCCAAAGTGGGA
GAGGAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGCCGCGC

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|--------------------|--------------|
| Restriction Sites: | SgfI-MluI    |
| ACCN:              | NM_001169126 |
| Insert Size:       | 837 bp       |


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|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>OTI Disclaimer:</b>        | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).                                                                                                                                                                                |
| <b>OTI Annotation:</b>        | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.                                                                                                                                                                                                                                                            |
| <b>Components:</b>            | 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).                                                                                                                                                                                                                                                                                                                                          |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>       |
| <b>RefSeq:</b>                | <u>NM_001169126.1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>RefSeq Size:</b>           | 1270 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>RefSeq ORF:</b>            | 837 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Locus ID:</b>              | 126259                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>UniProt ID:</b>            | <u>Q96BF3</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Cytogenetics:</b>          | 19p13.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Protein Families:</b>      | Transmembrane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>MW:</b>                    | 30.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Gene Summary:</b>          | <p>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.</p> <p>[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1.</p> |