

## Product datasheet for **SC117309**

### **IDI1 (NM\_004508) Human Untagged Clone**

#### **Product data:**

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | IDI1 (NM_004508) Human Untagged Clone   |
| Tag:                      | Tag Free  |
| Symbol:                   | IDI1  |
| Synonyms:                 | IPP1; IPP11   |
| Mammalian Cell Selection: | None  |
| Vector:                   | <u><a href="#">pCMV6-XL5</a></u>  |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| Fully Sequenced ORF:      | >NCBI ORF sequence for NM_004508, the custom clone sequence may differ by one or more nucleotides |

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ATGTGGCGTGGACTGGCGCTGGCGCGAGCGATTGGCTGCGCGGCCCGGGGCGGGGCCAGTGGGCGGTGC
GCGCCGCAGACTGTGCTCAAAGCGGGCGCCATCCGGGACCGCGGTTGTCTGTGGCCGGAGGCTGATCAG
TGTTCTAGAACAGATCAGACATTTTGAATGATGCCTGAAATAAACACTAACCCCTCGACAAGCAACAG
GTTCAACTCCTGGCAGAGATGTGTATCCTTATTGATGAAAATGACAATAAAATTGGAGCTGAGACCAAGA
AGAATTGCACCTGAACGAGAACATTGAGAAAGGATTATTGCATCGAGCTTTTAGTGTCTTCTTATTCAA
CACCGAAAATAAGCTTCTGCTACAGCAAAGATCAGATGCTAAGATTACCTTTCCAGGTTGTTTTACGAAT
ACGTGTTGTAGTCATCCATTAAGCAATCCAGCCGAGCTTGAGGAAAGTGACGCCCTTGGAGTGAGGCGAG
CAGCACAGAGACGGCTGAAAGCTGAGCTAGGAATCCCTTGAAGAGGTTCTCCAGAAGAAATTAATTA
TTAACACGAATTCACACAAAGCTCAGTCTGATGGTATCTGGGGTGAACATGAAATTGATTACATTTTG
TTGGTGAGGAAGAATGTAACCTTTGAATCCAGATCCCAATGAGATTAAGCTATTGTTATGTGTCAAAGG
AAGAACTAAAAGAAGCTTCTGAAAAAGCAGCCAGTGGTGAATTAAGATAACGCCATGGTTTAAATTTAT
TGCAGCGACTTTTCTTTAAATGGTGGGATAACTTAAATCATTGATCAGTTTGTGACCATGAGAAA
ATATACAGAATGTGA
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|                                     |  |
|-------------------------------------|--|
| <b>5' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 5' read for NM_004508 unedited</p> <pre>GGTGCAAATTTGTATACGACTACTATAGGCGGCCGGAATTCGCACGAGGCGGAGGCTG ATCAGTGTCTAGAACAGATCAGACATTTTGTAAATGGATGCCTGAAATAAACACTAACCA CCTCGACAAGCAACAGGTTCACTCCTGGCAGAGATGTGTATCCTTATTGATGAAATGA CAATAAAATTGGAGCTGAGACCAAGAAGATTGTACCTGAACGAGAACATTGAGAAAGG ATTATTGCATCGAGCTTTTAGTGTCTTCTTATTCAACACCGAAAAAAGCTTCTGCTACA GCAAAGATCAGATGCTAAGATTACCTTTCCAGGTTGTTTTACGAATACGTGTTGTAGTCA TCCATTAAGCAATCCAGCCGAGCTTGAGGAAAGTGACGCCCTTGAGTGAGGCGAGCAGC ACAGAGACGGCTGAAAGCTGAGCTAGGAATTCCTTGGAAGAGGTTCTCCAGAAGAAAT TAATTATTTAACACGAATCACTACAAAGCTCAGTCTGATGGTATCTGGGGTGAACATGA AATTGATTACATTTTGTGGTGAGGAAGAATGTAACCTTTGAATCCAGATCCCAATGAGAT TAAAAGCTATTGTATGTGTCAAAGGAAGAACTAAAAGAAGCTTCTGAAAAAGCAGCCAG TGGTGAATTAAGATAACGCCATGGTTTAAAATTATTGCAGCGACTTTTCTTTAAATG GTGGGATAACTTANATCATTTGAATCAGTTTGTGACCATGAGAAAATATACAGAAATGTG AATATGTAGGTAATGATTACCAGAAAATTTATCTGCTTAACAACTTAGATGACTCTNT CCTTTTAAATTAGTTCTATCATTAAATNTATCATTAAATTTAGTTCTATCATTTGGTACTA TCATTAATGTATTATATACC</pre>   |
| <b>3' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 3' read for NM_004508 unedited</p> <pre>CTATGGACCGCGGCACGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTGAAGAAAAA ATTTTTATTTTTCTTCATTATCATAACAGCATTTAAGAATAATAAATCTGTCTTGAGGTTT CAAATCTGAGATATCTATGGCAAGTTTATAAAAAGTACATTGATCAAGGTACAATTTTTA ACATTAATATACACATTCATAATCTCATCTATTTAACATTAACACAGGCCTTTGTGTGTT GTTATTTTTTCTCCCTACAATATTTCCCTGACTCTGTAGGACAGTGGTCCCTCAGTTGGGG GTTGACTCTGTCCCTAGGGCATCTGGCAACATCCGGCATAACTGTGGGTGTCACATGA GAGGGACGCTGCTCACCATCCTGCAATGCACAGCACAGACCCACCACAGGGGTTTTATC CAGCCCAAATGTCAACAGTGTCAAGTTTAAAGCAACTCTTACCGAGTGGGACTCAATTTCC ATTTTATGAACACCTCTGTGCTCACTGTAATTCTGAAAACACAGACTTTGCTAACTGGTA AATACTATTTACAAGAAGATTCAACCTAATCAATCACTTATCAAAAGCAGTGGCTGAC TGTAAGTATCAACATGTTTCCAGAATGAATAAACACACAATCACTCAGAATGATACAA ATTANGTCCATATCATTAAATTTCCCTTGAACCTGCTCTGACTAGTTTAACTGCTAATA TGAAAGNTAATTAAGACTGGTTTGAAAGAGCGANGACATAGNNTCTTTGCACATTNNTC TGGACTATGAGAAAAATTAATGATACATANAGCACCCCTGGCAATAGCAAGTCCCTGNC AGTGCTCCNGAAATGTTNATCACAGCCTACTAAAAACACANAGTCACTATTTGTCAA TTTCCATAAGATGGATCTGCAAAGATAAAATAAGTTTATTTGCCGCTCTAATTTACATAA TCTCAACAAAGTCGCTANAACAGAA</pre> |
| <b>Restriction Sites:</b>           | NotI-NotI  |
| <b>ACCN:</b>                        | NM_004508  |
| <b>Insert Size:</b>                 | 1950 bp  |
| <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>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).   |

**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\\_004508.1](#), [NP\\_004499.1](#)

**RefSeq Size:** 2150 bp

**RefSeq ORF:** 687 bp

**Locus ID:** 3422

**UniProt ID:** [Q13907](#)

**Cytogenetics:** 10p15.3

**Domains:** NUDIX

**Protein Pathways:** Metabolic pathways, Terpenoid backbone biosynthesis

**Gene Summary:** IDI1 encodes a peroxisomally-localized enzyme that catalyzes the interconversion of isopentenyl diphosphate (IPP) to its highly electrophilic isomer, dimethylallyl diphosphate (DMAPP), which are the substrates for the successive reaction that results in the synthesis of farnesyl diphosphate and, ultimately, cholesterol. It has been shown in peroxisomal deficiency diseases such as Zellweger syndrome and neonatal adrenoleukodystrophy that there is reduction in IPP isomerase activity. [provided by RefSeq, Jul 2008]  
Transcript Variant: This variant (1) encodes the longest isoform (a).