

Product datasheet for SC317411

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:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC317411 representing NM_004508. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTGGCGTGGACTGGCCTGGCGCGAGCGATTGGCTGCGCGCCCGGGGCGGGGCCAGTGGGCGGTG
CGCGCCGAGACTGTGCTCAAAGCGGGCGCCATCCGGGACCGCGGTTGTCTGTGGCCGGAGGCTGATC
AGTGTCTAGAACAGATCAGACATTTTGTAAATGATGCCTGAAATAAACACTAACCCACTCGACAAGCAA
CAGGTTCAACTCCTGGCAGAGATGTGTATCCTTATTGATGAAAATGACAATAAAATTGGAGCTGAGACC
AAGAAGAATTGCACCTGAACGAGAACATTGAGAAAGGATTATTGCATCGAGCTTTTAGTGTCTTCTTA
TTCAACACCGAAAATAAGCTTCTGCTACAGCAAAGATCAGATGCTAAGATTACCTTCCAGTTGTTTT
ACGAATACGTGTTGTAGTCATCCATTAAGCAATCCAGCCGAGCTTGAGGAAAGTGACGCCCTTGGAGTG
AGGCGAGCAGCACAGAGACGGCTGAAAGCTGAGCTAGGAATCCCTTGGAAAGAGGTTCTCCAGAAGAA
ATTAATTTTAAACGAATTCACTACAAAGCTCAGTCTGATGGTATCTGGGGTGAACATGAAATTTGAT
TACATTTTGTGGTGAGGAAGAAATGTAATTTGAAATCCAGATCCCAATGAGATTAAGCTATTGTTAT
GTGTCAAAGGAAGAACTAAAAGAACTTCTGAAAAAGCAGCCAGTGGTGAATTAAGATAACGCCATGG
TTTAAATTTATGCAGCGACTTTTCTTTAAATGGTGGGATAACTTAAATCATTGAAATCAGTTTGT
GACCATGAGAAAATATACAGAATGTGA
ACGCGTACGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_004508
Insert Size:	855 bp



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OTI Disclaimer:	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).
OTI Annotation:	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.
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:	<ol style="list-style-type: none"> 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_004508.3</u>
RefSeq Size:	2996 bp
RefSeq ORF:	855 bp
Locus ID:	3422
UniProt ID:	<u>Q13907</u>
Cytogenetics:	10p15.3
Domains:	NUDIX
Protein Pathways:	Metabolic pathways, Terpenoid backbone biosynthesis
MW:	32.5 kDa
Gene Summary:	<p>ID11 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]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (a).</p>