

## Product datasheet for RC214341

### IDI1 (NM\_004508) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IDI1 (NM_004508) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IDI1
Synonyms:	IPP1; IPP11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC214341 representing NM_004508 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGGCGTGGACTGGCGCTGGCGCGAGCGATTGGCTGCGCGGCCCGGGGCGGGGCCAGTGGGCGGTGC  
GCGCCGCGAGACTGTGCTCAAAGCGGGCCATCCGGGACCGCGGTTGTCTGTGGCCGAGGCTGATCAG  
TGTTCTAGAACAGATCAGACATTTGTAATGATGCCTGAAATAAACACTAACCCCTCGACAAGCAACAG  
GTTCAACTCCTGGCAGAGATGTGTATCCTTATTGATGAAAATGACAATAAAATTGGAGCTGAGACCAAGA  
AGAATTGTCACCTGAACGAGAACATTGAGAAAGGATTATTGCATCGAGCTTTTAGTGTCTTCTTATTCAA  
CACCGAAAATAAGCTTCTGCTACAGCAAAGATCAGATGCTAAGATTACCTTTCCAGGTTGTTTTACGAAT  
ACGTGTTGTAGTCATCCATTAAGCAATCCAGCCGAGCTTGAGGAAAGTGACGCCCTTGGAGTGAGGCGAG  
CAGCACAGAGACGGCTGAAAGCTGAGCTAGGAATTCCTTGAAGAGGTTCCCTCCAGAAGAAATTAATTA  
TTAACACGAATCACTACAAAGCTCAGTCTGATGGTATCTGGGGTGAACATGAAATTGATTACATTTTG  
TTGGTGAGGAAGAATGTAACCTTTGAATCCAGATCCCAATGAGATTAAGCTATTGTTATGTGTCAAAGG  
AAGAACTAAAAGAACTTCTGAAAAAGCAGCCAGTGGTGAATTAAGATAACCCATGGTTTAAATTTAT  
TGCAGCGACTTTCTCTTTAAATGGTGGGATAACTTAAATCATTTGAATCAGTTTGTGACCATGAGAAA  
ATATACAGAATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC214341 representing NM\_004508  
 Red=Cloning site Green=Tags(s)

MWRGLALARAIGCAARGRGQWAVRAADCAQSGRHPGPAVVCGRRLISVLEQIRHFVMMPEINTNHLKDQQ  
 VQLLAEMCILIDENDNKIGAETKKNCHLNENIEKGLLHRAFSVFLFNTENKLLLQQRSDAKITFPGCFTN  
 TCCSHPLSNPAELEESDALGVRRAAQRRLKAEGLIPEEVPPEEINYLTRIHYKAQSDGIWGEHEIDYIL  
 LVRKNVTLNPDNPEIKSYCYVSKEELKELLKKAASGEIKITPWFKIIAATFLFKWWDNLNHLNQFVDHEK  
 IYRM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8030\\_f04.zip](https://cdn.origene.com/chromatograms/mk8030_f04.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**ACCN:** NM\_004508

**ORF Size:** 852 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:** [NM\\_004508.3](#), [NP\\_004499.2](#)

**RefSeq Size:** 2150 bp

**RefSeq ORF:** 855 bp

**Locus ID:** 3422

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

**Cytogenetics:** 10p15.3

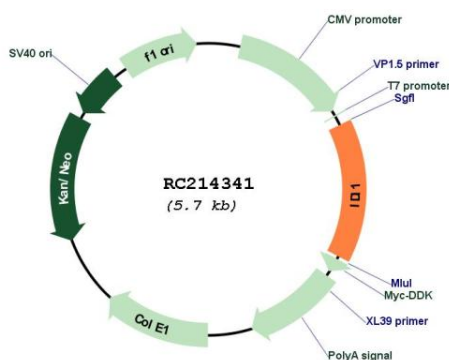
**Domains:** NUDIX

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

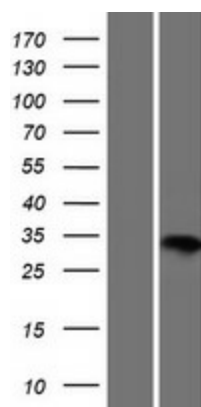
**MW:** 32.3 kDa

**Gene Summary:** 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]

### Product images:



Circular map for RC214341



Western blot validation of overexpression lysate (Cat# [LY417941]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214341 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).