

Product datasheet for **RG214341**

IDI1 (NM_004508) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IDI1 (NM_004508) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IDI1
Synonyms:	IPP1; IPP11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214341 representing NM_004508 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGCGTGGACTGGCGCTGGCGCGAGCGATTGGCTGCGCGGCCCGGGGCGGGGCCAGTGGGCGGTGC
GCGCCGACAGCTGTGCTCAAAGCGGGCCATCCGGGACCGCGGTTGTCTGTGGCCGAGGCTGATCAG
TGTTCTAGAACAGATCAGACATTTGTAATGATGCCTGAAATAAACACTAACCCCTCGACAAGCAACAG
GTTCAACTCCTGGCAGAGATGTGTATCCTTATTGATGAAAATGACAATAAAATTGGAGCTGAGACCAAGA
AGAATTGTCACCTGAACGAGAACATTGAGAAAGGATTATTGCATCGAGCTTTTAGTGTCTTCTTATTCAA
CACCGAAAATAAGCTTCTGCTACAGCAAAGATCAGATGCTAAGATTACCTTCCAGGTTGTTTTACGAAT
ACGTGTTGTAGTCATCCATTAAGCAATCCAGCCGAGCTTGAGGAAAGTGACGCCCTTGGAGTGAGGCGAG
CAGCACAGAGACGGCTGAAAGCTGAGCTAGGAATTCCTTGAAGAGGTTCCCTCCAGAAGAAATTAATTA
TTAACACGAATCACTACAAAGCTCAGTCTGATGGTATCTGGGGTGAACATGAAATTGATTACATTTTG
TTGGTGAGGAAGAATGTAACCTTTGAATCCAGATCCCAATGAGATTAAGATAACGCCATGGTTTAAATTTAT
TGCAGCGACTTTTCTCTTAAATGGTGGGATAACTTAAATCATTTGAATCAGTTTGTGACCATGAGAAA
ATATACAGAATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG214341 representing NM_004508
 Red=Cloning site Green=Tags(s)

MWRGLALARAIGCAARGRGQWAVRAADCAQSGRHGPAVVCGRRLISVLEQIRHFVMMPEINTNHLDKQQ
 VQLLAEMCILIDENDNKIGAETKKNCHLNENIEKGLLHRAFSVFLFNTENKLLLQQRSDAKITFPGCFTN
 TCCSHPLSNPAELEESDALGVRRAAQRRLKAELGIPLLEVPPEEINYLTRIHKAQSDGIWGEHEIDYIL
 LVRKNVTLNPDNEIKSYCYVSKHEELKELLKKAASGEIKITPWFKIIAATFLFKWWDNLNHLNQFVDHEK
 IYRM

TRTRPLE - GFP Tag - V

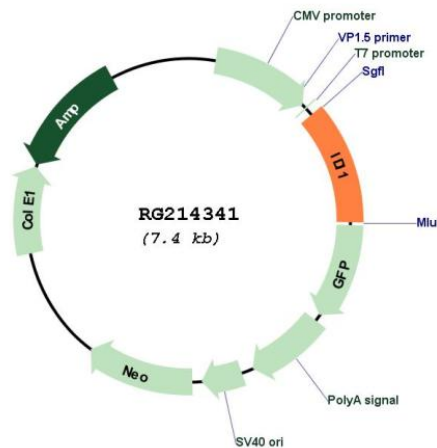
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



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:	<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:	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
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]