

Product datasheet for MC226798

Ispd (NM_001289504) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ispd (NM_001289504) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ispd
Synonyms:	4930579E17Rik; AV040780
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC226798 representing NM_001289504 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCCTGGGCGTGCAGCAGGCCCGCTGAGCCTGGGCATTGCGTGAGCGGCCCGCGGGCGCGGGCT
CAGCGTTCCTGGAGTCCCGTTGTCCGTCGCTGGGGCGGAGCCCGGAACCGCCTGGAACCGTGGCCGC
CGTGCTGCCGGTGGGGTTGCGGGGAAAGGATGGGCGTCCGCACCCGAAGCAGTTCTGCCGGTTCTG
GAAAGGCCGCTCATCAGCTACACTTTCAGGCTATGGAGAGAGTATGCTGGATAAAGGACATTGTTGTGA
CAGTGACAGGGGAGAACATGGAAGCAATGAGAAGTATCATCCAGAGGTATGGGCATAAGCGCATCTCACT
AGCTGAGGCTGGAGCCACGCGCCACAGATCAATTTTCAATGGACTGAAAGCCCTGGCAGAAGATCAGCCA
GACTGTAAACTACTAAGCCAGAAGTGGTGATTATCCATGACGCCGTGAGACCTTTTGTGAGGAAGATA
TCCTCCTGAGAGTTGTCTTAGCAGCTAAGGAACATGGGGCAGCAGGAGCAATTCGACCTCTGGTGCCAC
TGTCATCAGTCCCTCTGCTGATGGTCACTTAGACCACTCACTGGACCGTGCCAAGCATAGGGCAAGCGAA
ATGCCCCAGGCTTTTCTTTGATGTCTATGAAGCGTATCAGCAGTGTAGTGATTTTGACTTGGAAAT
TTGGAACAGAGTGCTTGCAAGTTGGCTCTAAAATACTGTACAGGAAAGCAAACTTGTAGAAGGGCCCC
TGCCCTCTGGAAGGTGACCTACAAACAAGACCTGTGTGACAGTGAAGCCATGATTAAAGGTGTGTCAAC
CTTGTGACTGTACAGCC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001289504
Insert Size:	861 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:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001289504.1, NP_001276433.1</u>
RefSeq Size:	3246 bp
RefSeq ORF:	861 bp
Locus ID:	75847
UniProt ID:	<u>Q5RIG7</u>
Cytogenetics:	12 A3
Gene Summary:	<p>Cytidylyltransferase required for protein O-linked mannosylation (By similarity). Catalyzes the formation of CDP-ribitol nucleotide sugar from D-ribitol 5-phosphate (By similarity). CDP-ribitol is a substrate of FKTN during the biosynthesis of the phosphorylated O-mannosyl trisaccharide (N-acetylgalactosamine-beta-3-N-acetylglucosamine-beta-4-(phosphate-6-)mannose), a carbohydrate structure present in alpha-dystroglycan (DAG1), which is required for binding laminin G-like domain-containing extracellular proteins with high affinity (By similarity). Shows activity toward other pentose phosphate sugars and mediates formation of CDP-ribulose or CDP-ribose using CTP and ribulose-5-phosphate or ribose-5-phosphate, respectively (By similarity). Not Involved in dolichol production (By similarity).</p> <p>[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (4) lacks several exons and its 3' terminal exon extends past a splice site that is used in variant 1. This results in a novel 3' coding region and 3' UTR, compared to variant 1. The encoded protein (isoform 4) is shorter and has a distinct C-terminus, compared to isoform 1.</p>