

Product datasheet for **MC227196**

Ispd (NM_001289503) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ispd (NM_001289503) Mouse Untagged Clone
Tag: Tag Free
Symbol: Ispd
Synonyms: 4930579E17Rik; AV040780
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC227196 representing NM_001289503
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAAGCAATGAGAAGTATCATCCAGAGGTATGGGCATAAGCGCATCTCACTAGCTGAGGCTGGAGCCA
CGCGCCACAGATCAATTTTCAATGGACTGAAAGCCCTGGCAGAAGATCAGCCAGACTGTAACTCACTAA
GCCAGAAGTGGTATTATCCATGACGCCGTGAGACCTTTTGTGAGGAAGATATCCTCCTGAGAGTTGTC
TTAGCAGCTAAGGAACATGGGGCAGCAGGAGCAATTCGACCTCTGGTGTCCACTGTCATCAGTCCCTCTG
CTGATGGTCACTTAGACCACTCACTGGACCGTGCCAAGCATAGGGCAAGCGAAATGCCCCAGGCTTTTCT
CTTTGATGTATCTATGAAGCGTATCAGCAGTGTAGTATTTGACTTGGAAATTTGGAACAGAGTGCTTG
CAGTTGGCTCTAAAATACTGTACAGGAAAGCAAACTTGTAGAAGGGCCCTGCCCTCTGGAAGGTGA
CCTACAAACAAGACCTGTGTGCAGCTGAAGCCATGATTAAGAGAAAATTCACAAGAGATTTGTGTGGT
CATGAACACAAAAGATGAAGAATCTGTAGGACATCTTCTTGAGGAAGCGCTAAGAAAGGAACTAAATTGT
ATGAAAATCACATCTACAGTTATGGATCACATAGGCGGAGACATTAGGAATTCATAGAGCAATGTTACA
GTTTCATCTGTGTAATGTTGTGCCCTGATAGTCAAGAAACCAGGAAGTTACTGCGTATCCTCGAAGA
GAGCAGCCTTCTCTTCTGTATCCTGTAGTTGTTGTTTGGTACACTGCTTTGACTTCACGTCAGTGCCA
CTCGCTCAGAAGATGAAAGCCTGGTGTGGATTAGGGGTTAGCAAAGGAAGTGAAGAAAGGAATATTC
TCCTAAGTGGACTCCTCTAACTACTCACAGGATGAGCAGAAGCTACAAGAGAGTTTAGGACAAAGTGC
AGCCATCATAGCTGCCTTAGTTAAGGAAAGAAATCTGCCTTGTGGGCAGCTCCTGGTGGCA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001289503



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Insert Size:	1047 bp
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.
RefSeq:	<u>NM_001289503.1</u> , <u>NP_001276432.1</u>
RefSeq Size:	2400 bp
RefSeq ORF:	1047 bp
Locus ID:	75847
UniProt ID:	<u>Q5RJG7</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). [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) contains an alternate 5' exon and uses a downstream translation start, compared to variant 1. The encoded protein (isoform 3) has a shorter N-terminus, compared to isoform 1.</p>