

## Product datasheet for **MC227482**

### Ispd (NM\_001289502) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ispd (NM\_001289502) 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:** >MC227482 representing NM\_001289502  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGAGCCTGGGCGTGCAGCAGGCCCGCTGAGCCTGGGCATTGCGTGAGCGGCCCGGGCGCGGGCT  
CAGCGTCCCGGAGTCCCGTTGTCCGTCGCTGGGGCGGAGCCCGGAACCGCCCTGGAACCGTGGCCGC  
CGTGCTGCCGGCTGGGGTTGCGGGGAAAGGATGGCGTCCGCACCCGAAGCAGTTCTGCCGGTTCTG  
GAAAGGCCGCTCATCAGCTACACTTTGCAGGCTATGGAGAGAGTATGCTGGATAAAGGACATTGTTGTGA  
CAGTGACAGGGGAGAACATGGAAGCAATGAGAAGTATCATCCAGAGGTATGGGCATAAGCCATCTCACT  
AGCTGAGGCTGGAGCCACGCGCCACAGATCAATTTTCAATGGACTGAAAGCCCTGGCAGAAGATCAGCCA  
GACTGTAAACTACTAAGCCAGAAGTGGTGATTATCCATGACGCCGTGAGACCTTTTGTGAGGAAGATA  
TCCTCCTGAGAGTTGCTTAGCAGCTAAGGAACATGGGTGTAGTGATTTTACTTGGAAATTTGGAACAGA  
GTGCTTGCAGTTGGCTCTAAAACTGTGCACAGGAAAGCAAACCTGTAGAAGGGCCCCCTGCCCTCTGG  
AAGGTGACCTACAACAAGACCTGTGTGCAGCTGAAGCCATGATTAAGAGAAAAATTTACAAGAGATTT  
GTGTGGTCATGAACACAAAAGATGAAGAATCTGTAGGACATCTTCTTGAGGAAGCGCTAAGAAAGGAAT  
AAATTGTATGAAATCACATCTACAGTTATGGATCACATAGGCGGAGACATTAGGAACCTCATAGAGCAA  
TGTTACAGTTTCTGTGTGAATGTTGTGCCCTGATAGTCAAGAAACCAGGAAGTTACTGCGTATCC  
TCGAAGAGAGCAGCCTTCTCTTCTGTATCCTGTAGTTGTTGTTTTGGTACACTGCTTTGACTTCACGTC  
AGTGCCACTCGCTCAGAAGATGGAAGCCTGGTGTGGATTAGGGGGTTAGCAAAGGAAGTAAAGAAAGG  
AATATTCTCTAAGTGGACTCCTCCTAACTACTCACAGGATGAGCAGAAGCTACAAGAGAGTTTAGGAC  
AAAGTGACCCATCATAGCTGCCTTAGTTAAGGAAAGAAATTCTGCACCTGTTGGCAGCTCCTGGTGCC  
ATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001289502
<b>Insert Size:</b>	1194 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001289502.1</a> , <a href="#">NP_001276431.1</a>
<b>RefSeq Size:</b>	2668 bp
<b>RefSeq ORF:</b>	1194 bp
<b>Locus ID:</b>	75847
<b>UniProt ID:</b>	<a href="#">Q5RIG7</a>
<b>Cytogenetics:</b>	12 A3
<b>Gene Summary:</b>	<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 (2) lacks an exon in the 5' coding region, compared to variant 1. The resulting protein (isoform 2) is shorter, compared to isoform 1.</p>