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Product datasheet for MC216017

Ispd (NM_178629) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ispd (NM_178629) 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

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Fully Sequenced ORF:

>MC216017 representing NM_178629
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCCTGGGCCGTGCAGCAGGCCCGCTGAGCCTGGGCATTGCGTGAGCGGCCCCGCGGGCGCGGGCT
CAGCGTTCCCGGAGTCCCCGTTGTCCGTCGCTGGGGCGGAGCCCGGGAACCGCCCTGGAACCGTGGCCGC
CGTGCTGCCGGCTGGGGGTTGCGGGGAAAGGATGGGCGTCCGCACCCCGAAGCAGTTCTGCCGGGTTCTG
GAAAGGCCGCTCATCAGCTACACTTTGCAGGCTATGGAGAGAGTATGCTGGATAAAGGACATTGTTGTGA
CAGTGACAGGGGAGAACATGGAAGCAATGAGAAGTATCATCCAGAGGTATGGGCATAAGCGCATCTCACT
AGCTGAGGCTGGAGCCACGCGCCACAGATCAATTTTCAATGGACTGAAAGCCCTGGCAGAAGATCAGCCA
GACTGTAAACTCACTAAGCCAGAAGTGGTGATTATCCATGACGCCGTGAGACCTTTTGTTGAGGAAGATA
TCCTCCTGAGAGTTGTCTTAGCAGCTAAGGAACATGGGGCAGCAGGAGCAATTCGACCTCTGGTGTCCAC
TGTCATCAGTCCCTCTGCTGATGGTCACTTAGACCACTCACTGGACCGTGCCAAGCATAGGGCAAGCGAA
ATGCCCCAGGCTTTTCTCTTTGATGTCATCTATGAAGCGTATCAGCAGTGTAGTGATTTTGACTTGGAAT
TTGGAACAGAGTGCTTGCAGTTGGCTCTAAAATACTGTCACAGGAAAGCAAAACTTGTAGAAGGGCCCCC
TGCCCTCTGGAAGGTGACCTACAAACAAGACCTGTGTGCAGCTGAAGCCATGATTAAAGAGAAAATTTCA
CAAGAGATTTGTGTGGTCATGAACACAAAAGATGAAGAATCTGTAGGACATCTTCTTGAGGAAGCGCTAA
GAAAGGAACTAAATTGTATGAAAATCACATCTACAGTTATGGATCACATAGGCGGAGACATTAGGAACTT
CATAGAGCAATGTTACAGTTTCATCTGTGTGAATGTTGTGTCCCCTGATAGTCAAGAAACCAGGAAGTTA
CTGCGTATCCTCGAAGAGAGCAGCCTTCCTCTTCTGTATCCTGTAGTTGTTGTTTTGGTACACTGCTTTG
ACTTCACGTCAGTGCCACTCGCTCAGAAGATGGAAAGCCTGGTGTGGATTAGGGGGTTAGCAAAGGAAGT
GAAAGAAAGGAATATTCTCCTAAGTGGACTCCTCCTAAACTACTCACAGGATGAGCAGAAGCTACAAGAG
AGTTTAGGACAAAGTGCAGCCATCATAGCTGCCTTAGTTAAGGAAAGAAATTCTGCACTTGTTGGGCAGC
TCCTGGTGGCATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_178629

Insert Size: 1344 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).

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_178629.6, NP_848744.2
RefSeq Size:	2818 bp
RefSeq ORF:	1344 bp
Locus ID:	75847
UniProt ID:	Q5RJG7
Cytogenetics:	12 A3
Gene Summary:	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] Transcript Variant: This variant (1) encodes the longest protein (isoform 1).