

Product datasheet for MR229693

Ispd (NM_001289502) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ispd (NM_001289502) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ispd
Synonyms: 4930579E17Rik; AV040780
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR229693 representing NM_001289502
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGCCTGGGCGTGCAGCAGGCCCGCTGAGCCTGGGCATTGCGTGAGCGGCCCGGGCGCGGGCT
CAGCGTCCCGGAGTCCCGTTGTCCGTCGCTGGGGCGGAGCCCGGAACCGCCCTGGAACCGTGGCCG
CGTGCTGCCGGCTGGGGTTGCGGGGAAAGGATGGCGTCCGCACCCGAAGCAGTCTGCCGGTTCTG
GAAAGGCCGCTCATCAGCTACACTTTGCAGGCTATGGAGAGAGTATGCTGGATAAAGGACATTGTTGTGA
CAGTGACAGGGGAGAACATGGAAGCAATGAGAAGTATCATCCAGAGGTATGGGCATAAGCCATCTCACT
AGCTGAGGCTGGAGCCACGCGCCACAGATCAATTTCAATGGACTGAAAGCCCTGGCAGAAGATCAGCCA
GACTGTAAACTACTAAGCCAGAAGTGGTATTATCCATGACGCCGTGAGACCTTTTGTGAGGAAGATA
TCCTCCTGAGAGTTGTCTTAGCAGCTAAGGAACATGGGTGTAGTATTTGACTTGAATTTGGAACAGA
GTGCTTGCAGTTGGCTCTAAAACTGTGCACAGGAAAGCAAACCTGTAGAAGGGCCCCCTGCCCTCTGG
AAGGTGACCTACAACAAGACCTGTGTGCAGCTGAAGCCATGATTAAGAGAAAAATTTACAAGAGATTT
GTGTGGTCATGAACACAAAAGATGAAGAACTGTAGGACATCTTCTTGAGGAAGCGCTAAGAAAGGAAC
AAATTGTATGAAATCACATCTACAGTTATGGATCACATAGGCGGAGACATTAGGAACCTCATAGAGCAA
TGTTACAGTTTCTGTGTGAATGTTGTGCCCTGATAGTCAAGAAACCAGGAAGTTACTGCGTATCC
TCGAAGAGAGCAGCCTTCTCTTCTGTATCCTGTAGTTGTTGTTTTGGTACACTGCTTTGACTTCACGTC
AGTGCCACTCGCTCAGAAGATGGAAGCCTGGTGTGGATTAGGGGGTTAGCAAAGGAAGTAAAGAAAGG
AATATTCTCTAAGTGGACTCCTCCTAACTACTCACAGGATGAGCAGAAGCTACAAGAGAGTTTAGGAC
AAAGTGACCCATCATAGCTGCCTTAGTTAAGGAAAGAAATTCTGCACCTGTTGGCAGCTCCTGGTGCC
A

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229693 representing NM_001289502
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MEPGPCSRPAEPGHCVSGPAGAGSAPFESPLSVAGAEPGNRPGTVAAVLPAGGCGERMGVRTPKQFCRVL
 ERPLISYTLQAMERVCWIKDIVVTVTGENMEAMRSIIQRYGHKRISLAEGATRHRISIFNGLKALAEQDP
 DCKLTKPEVVIHDAVRPFVEEDILLRVVLAAKEHGCSDFDLEFGTECLQLALKYCHRKAKLVEGPPALW
 KVTYKQDLCAAEAMIKEKISQEICVVMNTKDEESVGHLLLEEALRKELNCMKITSTVMDHIGGDIRNFIEQ
 CYSFICVNVVSPDSQETRKLRLIEESSPLLYPVVVVVLVHCFDFTSVPLAQKMESLVWIRGLAKEVKER
 NILLSGLLLNSQDEQKLQESLGGQSAIIAALVKERNALVGLLVA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

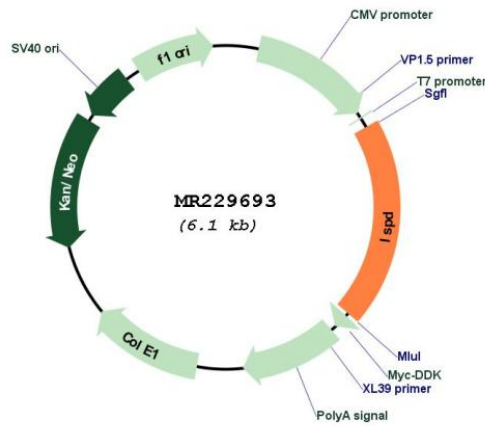
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001289502

ORF Size:	1191 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_001289502.1 , NP_001276431.1
RefSeq Size:	2668 bp
RefSeq ORF:	1194 bp
Locus ID:	75847
UniProt ID:	Q5RJG7
Cytogenetics:	12 A3
MW:	44.1 kDa
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>