

Product datasheet for **MR207142**

Ispd (NM_178629) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Ispd (NM_178629) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Ispd |
| Synonyms: | 4930579E17Rik; AV040780 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>MR207142 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGCCTGGGCGTGCAGCAGGCCCGCTGAGCCTGGGCATTGCGTGAGCGGCCCGCGGGCGCGGGCT
 CAGCGTTCGCCGAGTCCCGTTGTCCGTCGCTGGGGCGGAGCCCGGAACCGCCCTGGAACCGTGGCCGC
 CGTGCTGCCGGCTGGGGTTGCGGGGAAAGGATGGGCGTCCGCACCCGAAAGCAGTTCTGCCGGTTCTG
 GAAAGGCCGCTCATCAGCTACACTTTGCAGGCTATGGAGAGAGTATGCTGGATAAAGGACATTGTTGTGA
 CAGTGACAGGGGAGAACATGGAAGCAATGAGAAGTATCATCCAGAGGTATGGGCATAAGCGCATCTCACT
 AGCTGAGGCTGGAGCCACGCGCCACAGATCAATTTTCAATGGACTGAAAGCCCTGGCAGAAGATCAGCCA
 GACTGTAACTACTAAGCCAGAAGTGGTATTATCCATGACGCCGTGAGACCTTTTGTGAGGAAGATA
 TCCTCCTGAGAGTTGCTTAGCAGCTAAGGAACATGGGGCAGCAGGCAATTCGACCTCTGGTGTCCAC
 TGTTCATCAGTCCCTCTGCTGATGGTCACCTAGACCACTACTGGACCGTCCCAAGCATAGGGCAAGCGAA
 ATGCCCCAGGCTTTTCTCTTTGATGTCATCTATGAAGCGTATCAGCAGTGTAGTATTTGACTTGGAAAT
 TTGGAACAGAGTCTTGCAGTTGGCTCTAAAATACTGTCACAGGAAAGCAAAACTTGTAGAGGGCCCCC
 TGCCCTCTGGAAGGTGACCTACAAAAGACCTGTGTGCAGCTGAAGCCATGATTAAGAGAAAAATTTCA
 CAAGAGATTTGTGTGGTCATGAACACAAAAGATGAAGAATCTGTAGGACATCTTCTTGAGGAAGCGCTAA
 GAAAGGAACTAAATTGTATGAAAATCACATCTACAGTTATGGATCACATAGGCGGAGACATTAGGAACTT
 CATAGAGCAATGTTACAGTTTCTCTGTGTGAATGTTGTGTCCCTGATAGTCAAGAAACCAGGAAGTTA
 CTGCGTATCCTCGAAGAGAGCAGCCTTCTCTTCTGTATCCTGTAGTTGTTGTTTGGTACACTGCTTTG
 ACTTCAGTCAGTGCCACTCGCTCAGAAGATGGAAGCCTGGTGTGGATTAGGGGGTTAGCAAAGGAAGT
 GAAAGAAAGGAATATTCTCCTAAGTGGACTCCTCCTAAACTACTCACAGGATGAGCAGAAGCTACAAGAG
 AGTTTAGGACAAAGTGCAGCCATCATAGCTGCCTTAGTTAAGGAAAGAAATTCTGCACCTGTTGGGCAGC
 TCCTGGTGGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207142 protein sequence
 Red=Cloning site Green=Tags(s)

MEPGPCSRPAEPGHCVSGPAGAGSAPFESPLSVAGAEPGNRPGTVAAVLPAGGCGERMVTRPKQFCRVL
 ERPLISYTLQAMERVWCWKIDIVVTVTGENMEAMRSIIQRYGHKRISLAEAGATRHRSIFNGLKALAEQDQ
 DCKLTKPEVVIHDAVRPFVEEDILLRVVLAKEHGAAGAIRPLVSTVISPADGHLHSLDRAKHRASE
 MPQAFLLFDVIYEAYQCSDFLEFGTECLQLALKYCHRKAKLVEGPPALWKVTKQDLCAAEAMIKEKIS
 QEICVVMNTKDEESVGHLLLEALRKELNCKMITSTVMDHIGGDIRNFIQCYSFICVNVVSPDSQETRKL
 LRILESSLPLLYPVVVVLVHCFDFTSVPLAQKMESLVWIRGLAKEVKERNILLSGLLLNYSQDEQKLQE
 SLGQSAIIAALVKERNALVGLLVA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

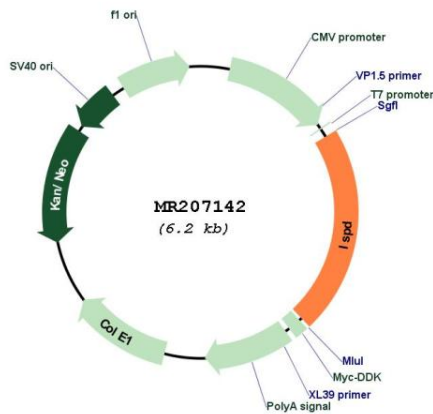
Sgfl-MluI

Cytogenetics: 12 A3

MW: 49.1 kDa

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]

Product images:



Circular map for MR207142