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Product datasheet for RC232394

Dehydrodolichyl Diphosphate Synthase (DHDDS) (NM_001243565) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dehydrodolichyl Diphosphate Synthase (DHDDS) (NM_001243565) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DHDDS
Synonyms:	CIT; CPT; DEDSM; DS; hCIT; HDS; RP59
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC232394 representing NM_001243565 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTCATGGATCAAGGAAGGAGAGCTGTCACTTTGGGAGCGGTTCTGTGCCAACATCATAAAGGCAGGCC CAATGCCGAAACACATTGCATTCATAATGGACGGGAACCGTCGCTATGCCAAGAAGTGCCAGGTGGAGCG GCAGGAAGGCCACTCACAGGGCTTCAACAAGCTAGCTGAGACTCTGCGGTGGTGTTTGAACCTGGGCATC CTAGAGGTGACAGTCTACGCATTCAGCATTGAGAACTTCAAACGCTCCAAGAGTGAGGTAGACGGGCTTA TGGATCTGGCCCGGCAGAAGTTCAGCCGCTTGATGGAAGAAAAGTGTTTCCTGAATGTCTGTTTTGCATA CACATCCCGTCATGAGATCAGCAATGCTGTGAGAGAGATGGCCTGGGGGGTGGAGCAAGGCCTGTTGGAT CCCAGTGATATCTCTGAGTCTCTGCTTGATAAGTGCCTCTATACCAACCGCTCTCCTCATCCTGACATCT TGATACGGACTTCTGGAGAAGTGCGGCTGAGTGACTTCTTGCTATGGCAGACCTCTCACTCCTGCCTGGT GTTCCAACCCGTTCTGTGGCCAGAGTATACATTTTGGAACCTCTTCGAGGCCATCCTGCAGTTCCAGATG AACCATAGCGTGCTTCAGAAGGCCCGAGACATGTATGCAGAGGAGCGGAAGAGGCAGCAGCTGGAGAGGG ACCAGGCTACAGTGACAGAGCAGCTGCTGCGAGAGGGGCTCCAAGCCAGTGGGGACGCCCAGCTCCGAAG GACACGCTTGCACAAACTCTCGGCCAGACGGGAAGAGCGAGTCCAAGGCTTCCTGCAGGCCTTGGAACTC AAGCGAGCTGACTGGCTGGCCCGTCTGGGCACTGCATCAGCC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

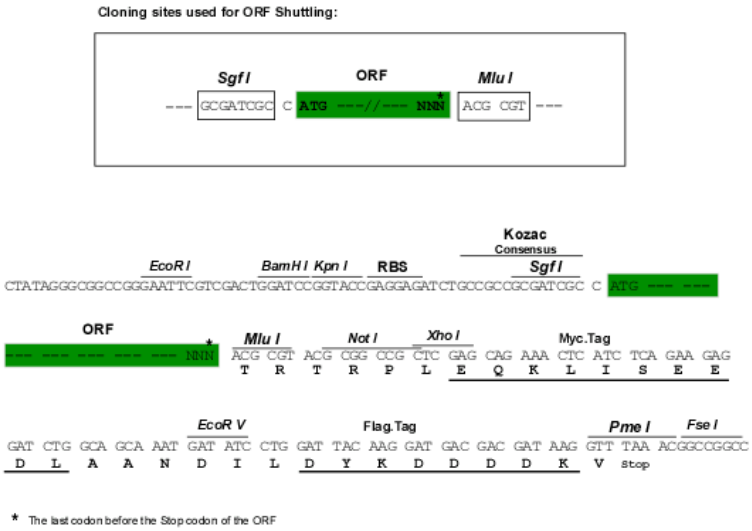
>RC232394 representing NM_001243565
Red=Cloning site Green=Tags(s)

MSWIKEGELSLWERFCANIIKAGPMPKHIAFIMDGNRRYAKKCQVERQEGHSQGFNKLAETLRWCLNLGI
LEVTVYAFSIENFKRSKSEVDGLMDLARQKFSRLMEEKCFLNVCFAYTSRHEISNAVREMAWGVEQGLLD
PSDISESLLDKCLYTNRSPHPDILIRTSGEVRLSDFLLWQTSHSCLVFQPVLWPEYTFWNLFEAILQFQM
NHSVLQKARDMYAEERKRQQLERDQATVTEQLLREGLQASGDAQLRRTRLHKLSARREERVQGFLQALEL
KRADWLARLGTASA

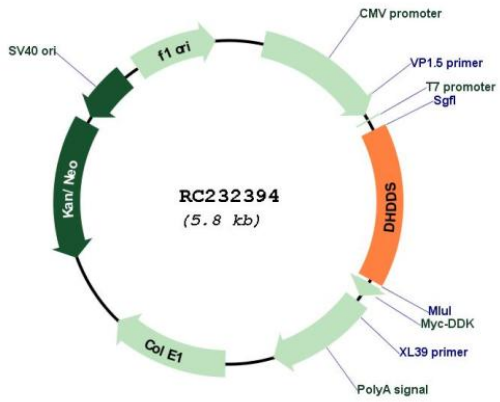
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001243565

ORF Size: 882 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:	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_001243565.1, NP_001230494.1
RefSeq Size:	3223 bp
RefSeq ORF:	885 bp
Locus ID:	79947
UniProt ID:	Q86SQ9
Cytogenetics:	1p36.11
Protein Pathways:	Terpenoid backbone biosynthesis
MW:	34.7 kDa
Gene Summary:	The protein encoded by this gene catalyzes cis-prenyl chain elongation to produce the polyprenyl backbone of dolichol, a glycosyl carrier lipid required for the biosynthesis of several classes of glycoproteins. Mutations in this gene are associated with retinitis pigmentosa type 59. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Aug 2011]