

Product datasheet for **MR204923**

Dhdds (NM_026144) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dhdds (NM_026144) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dhdds
Synonyms:	3222401G21Rik; CIT; DS; HDS; W91638
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204923 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGTCATGGATCAAAGAAGGAGAGCTGTCACTGTGGGAACGGTTCTGTGCTAACATCATAAAGGCTGGCC
CAGTACCCAAACATATCGCGTTCAATGGACGGCAACCGTCGCTATGCCAAGAAGTGTCAGGTGGAGCG
CCAGGAGGGCCACACACAGGGCTTCAATAAGCTTGCTGAGACTCTCCGCTGGTGTGTAACCTGGGCATC
CTAGAAGTGACTGTCTACGCATTGAGCAATTGAGAACTTCAAACGTTCCAAGAGTGAGGTTGACGGACTCC
TGGATCTAGCCAGACAGAAGTTCAGCTGCTTGATGGAAGAACAGGAGAAGTTGCAGAAGCACGGGGTGTG
CATCCGCGTCCTGGGTGATCTGCATCTGCTGCCCTTGGACCTCCAGGAGAAGATTGCGCATGCCATCCAG
GCTACTAAGAACTACAATAAGTGTTCCTCAATGTCTGCTTTGCATACACATCACGTCATGAGATTGCCA
ATGCTGTGAGAGAGATGGCCTGGGGCGTGGAACAAGGTCTGCTGGAACCCAGTGATGTCTCCGAGTCTCT
GCTCGATAAGTGCCTCTATAGCAACCACTCTCCTCATCCCGACATCCTGATCCGGACTTCTGGGGAGGTG
CGGCTGAGTGACTTCTTGCTCTGGCAGACGTCCCATTCCTGCCTCGTGTCCAGCCTGTCTGTGGCCAG
AATACACATTTTGAACCTGTGTGAGGCAATTCTGCAGTTTCAGAGGAACCATGGTGCACTTCAGAAGGC
CCGAGACATGTACGCTGAGGAGCGGAAGAGGCGCCAGCTGGAGAGGGACCAGGCCGAGTGACAGAGCAG
CTGCTTCGAGAGGGGCTCCAGGCCAGTGGGGATGCCAACTCCGACGGACACGCTTGACAAAACCTCTCCA
CCAAACGGGAAGAGCGAGTCCAAGGCTTCTGAAGGCCTTGGAACCTTAAACGGGCCAACTGGCTGGCACT
TTGGGGCACTGCATCTGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204923 protein sequence
 Red=Cloning site Green=Tags(s)

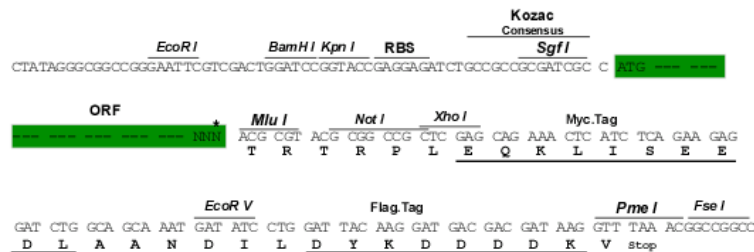
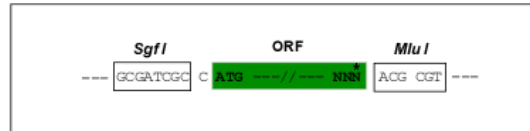
MSWIKEGELSLWERFCANIIKAGPVPKHIAFIMDGNRRYAKKCQVERQEGHTQGFNKLAEFLRWCLNLGI
 LEVTVYAFSIEFKRSKSEVDGLDLARQKFSCLMEEQKQLKHGVCIRVLGDLHLLPLDLQEKIAHAIQ
 ATKNNKCFNLNVCFAYSRHEIANAVREMAWGVEQGLLEPSDVSESLDKCLYSNHSHPHDILIRTSGEV
 RLSDFLLWQTSLSCLVFQPVLPWEYTFWNLCAILQFQRNHGALQKARDMYAEERKRRQLERDQAAVTEQ
 LLREGLQASGDAQLRRLRLHKLSTKREERVQGFLKALELKRWLALWGTASA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_026144

ORF Size: 999 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_026144.2](#), [NM_026144.3](#), [NM_026144.4](#), [NP_080420.2](#)

RefSeq Size: 3110 bp

RefSeq ORF: 1002 bp

Locus ID: 67422

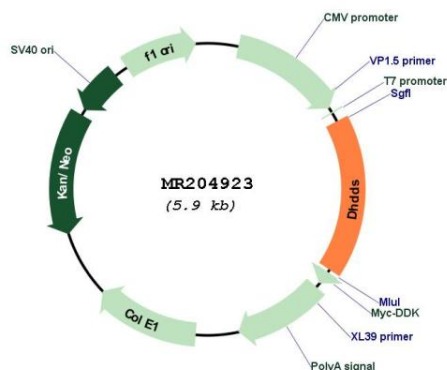
UniProt ID: [Q99KU1](#)

Cytogenetics: 4 D3

MW: 38.5 kDa

Gene Summary: With NUS1, forms the dehydrodolichyl diphosphate synthase (DDS) complex, an essential component of the dolichol monophosphate (Dol-P) biosynthetic machinery. Both subunits contribute to enzymatic activity, i.e. condensation of multiple copies of isopentenyl pyrophosphate (IPP) to farnesyl pyrophosphate (FPP) to produce dehydrodolichyl diphosphate (Dedol-PP), a precursor of dolichol phosphate which is utilized as a sugar carrier in protein glycosylation in the endoplasmic reticulum (ER). Regulates the glycosylation and stability of nascent NPC2, thereby promoting trafficking of LDL-derived cholesterol. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204923