

Product datasheet for **MG204923**

Dhdds (NM_026144) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dhdds (NM_026144) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Dhdds
Synonyms: 3222401G21Rik; CIT; DS; HDS; W91638
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG204923 representing NM_026144
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCATGGATCAAAGAAGGAGAGCTGTCACTGTGGGAACGGTTCTGTGCTAACATCATAAAGGCTGGCC
CAGTACCCAAACATATCGCGTTCATAATGGACGGCAACCGTCGCTATGCCAAGAAGTGTGAGGTGGAGCG
CCAGGAGGGCCACACACAGGGCTTCAATAAGCTTGCTGAGACTCTCCGCTGGTGTGAACTGGGCATC
CTAGAAGTGAAGTGTCTACGCATTCAGCATTGAGAACTTCAAACGTTCCAAGAGTGAGGTTGACGGACTCC
TGGATCTAGCCAGACAGAAGTTCAGCTGCTTGATGGAAGAACAGGAGAAGTTGCAGAAGCACGGGGTGTG
CATCCCGCTCCTGGGTGATCTGCATCTGCTGCCCTTGGACCTCCAGGAGAAGATTGCGCATGCCATCCAG
GCTACTAAGAACTACAATAAGTGTTCCTCAATGTCTGCTTTGCATACACATCACGTCATGAGATTGCCA
ATGCTGTGAGAGAGATGGCCTGGGGCGTGAACAAGGTCTGCTGGAACCCAGTGATGTCTCCGAGTCTCT
GCTCGATAAGTGCCTCTATAGCAACCACTCTCCTCATCCCGACATCCTGATCCGGACTTCTGGGGAGGTG
CGGCTGAGTGACTTCTTGCTCTGGCAGACGTCCATTCTGCCTCGTGTTCAGCCTGTCTGTGGCCAG
AATACACATTTTGAACCTGTGTGAGGCAATTCTGCAGTTTCAGAGGAACCATGGTGCACCTTCAGAAGGC
CCGAGACATGTACGCTGAGGAGCGGAAGAGGCCAGCTGGAGAGGGACCAGGCCGAGTGACAGAGCAG
CTGCTTCGAGAGGGGCTCCAGGCCAGTGGGGATGCCAACTCCGACGGACACGCTTGACAAAACCTCCA
CCAAACGGGAAGAGCGAGTCCAAGGCTTCTGAAGGCTTGAAGCTTAAACGGGCCAACTGGCTGGCACT
TTGGGGCACTGCATCTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204923 representing NM_026144
 Red=Cloning site Green=Tags(s)

MSWIKEGELSLWERFCANI I KAGPVPKHIAFIMDGNRRYAKKCQVERQEGHTQGFNKL AETLRWCLNLGI
 LEVTVYAFS IENFKRSKSEVDGLLDLARQKFSCLMEEQELQKHGVCIRVLGDLHLLPLDLQEKIAHAIQ
 ATKNYNKCFLNVCFAYTSRHEIANAVREMAWGVEQGLLEPSDVSESLDKCLYSNHSPHPDILIRTSGEV
 RLSDFLLWQTSHSCLVFQPVLPWEYTFWNLCEAILQFQRNHGALQKARDMYAEERKRRQLERDQAAVTEQ
 LLREGLQASGDAQLRRLRHLKLS TKREERVQGF LKALELKRANWLALWGTASA

TRTRPLE - GFP Tag - V

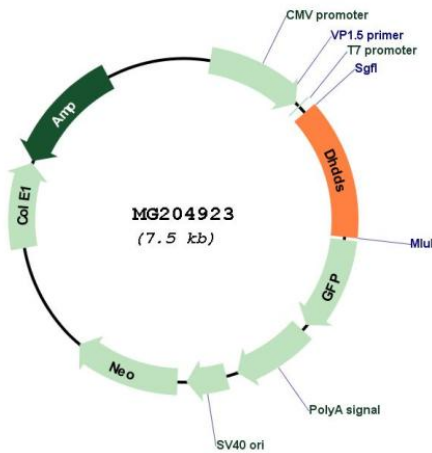
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



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:	<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_026144.2 , NP_080420.2
RefSeq Size:	3111 bp
RefSeq ORF:	1002 bp
Locus ID:	67422
UniProt ID:	Q99KU1
Cytogenetics:	4 D3
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]