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Product datasheet for RC209015

DUS1L (NM_022156) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	DUS1L
Synonyms:	DUS1; PP3111
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC209015 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCAAAGCTGCAGGGCTTCGAGTTCTGGAGCCGCACCCTGCGAGGGGCCCGCCACGTCGTGGCCCCCA
TGGTGGACCAGAGCGAGCTGGCCTGGAGGCTGCTGAGCCGGCGCCACGGGGCACAGCTCTGCTACACGCC
CATGCTGCATGCCCAGGTCTTTGTCCGCGACGCCAACTACCGGAAGGAGAACCTGTACTGCGAGGTGTGC
CCCGAGGACCGGCCCCTCATCGTGCAGTTCTGTGCCAATGACCCGGAGGTGTTTGTTCAGGCGGCTCTCC
TGGCTCAGGATTACTGTGACGCCATTGACCTGAACTTGGGCTGCCCACAGATGATAGCCAAGAGAGGTCA
CTATGGCGCCTTTCTGCAGGACGAGTGGGACCTGCTCCAAAGAATGATTTTGCTGGCCCACGAGAAACTC
TCTGTTCCTGTCACGTGCAAAATCCGTGTCTTCCCGGAGATTGACAAGACCGTGAGGTACGCCCAGATGC
TGGAGAAGGCCGGCTGCCAGTTGCTGACGGTGCACGGACGCACCAAGGAGCAGAAGGGGCCCCTGTCGGG
TGCAGCGTCCTGGGAGCATATCAAGGCTGTGCGGAAGGCTGTGGCCATCCCTGTGTTTGCTAACGGGAAC
ATCCAGTGCCTGCAGGACGTGGAGCGCTGCCTCCGGGACACGGGTGTGCAGGGCGTCATGAGCGCAGAGG
GCAACCTGCACAACCCCGCCCTGTTCGAGGGCCGGAGCCCTGCCGTGTGGGAGCTGGCCGAGGAGTATCT
GGACATCGTGCGGGAGCACCCCTGCCCCCTGTCCTACGTCCGGGCCCACCTCTTCAAGCTGTGGCACCAC
ACGCTGCAGGTGCACCAGGAGCTGCGAGAGGAGCTGGCCAAGGTGAAGACCCTGGAGGGCATCGCTGCTG
TGAGCCAGGAGCTGAAGCTGCGGTGTCAGGAGGAGATATCCAGGCAGGAGGGAGCGAAGCCCACCGGCGA
CTTGCCCTTCCACTGGATCTGCCAGCCCTACATCCGGCCGGGGCCCAGGGAGGGGAGCAAGGAGAAGGCA
GGTGCGCGCAGCAAGCGGGCCCTGGAGGAAGAGGAGGGTGGCACGGAGGTCCTGTCCAAGAACAAGCAAA
AGAAGCAGCTGAGGAACCCCCACAAGACCTTCGACCCCTCTCTGAAGCCAAAATATGCAAAGTGTGACCA
GTGTGGAAACCCAAAGGGCAACAGATGTGTGTTCAGCCTGTGCCGCGGCTGCTGCAAGAAGCGAGCCTCC
AAAGAGACTGCAGACTGCCCAGGTCACGGATTGCTTTTTAAAACCAAATTGGAGAAGTCTCTGGCCTGGA
AAGAGGCCCAGCCTGAGCTGCAGGAGCCTCAGCCAGCAGCACCTGGAACACCAGGTGGCTTCTCCGAAGT
CATGGGCAGTGCCCTGGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC209015 protein sequence
Red=Cloning site Green=Tags(s)

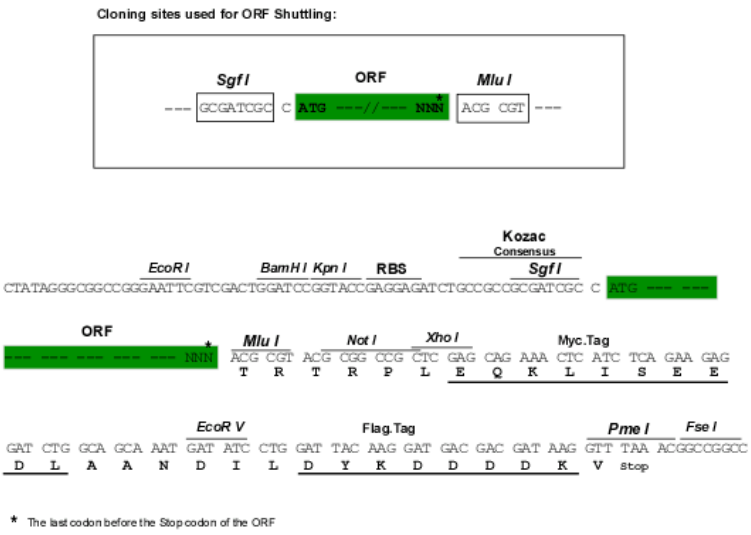
MPKLQGFEFWSRTLRGARHVVAPMVDQSELAWRLLSRRHGAQLCYTPMLHAQVFVRDANYRKENLYCEVC
PEDRPLIVQFCANDPEVFVQAALLAQDYCDAIDLNLGCPQMIAKRGHYGAFLQDEWDLLQRMILLAHEKL
SVPVTCKIRVFPEIDKTVRYAQMLEKAGCQLLTVHGRTKEQKGPLSGAASWEHIKAVRKAVAIPVFANGN
IQCLQDVERCLRDTGVQGVMSAEGNLHNPALFEGRSPAVWELAEEYLDIVREHPCPLSYVRAHLFKLWHH
TLQVHQELREELAKVKTLEGIAAVSQELKLRCQEEISRQEGAKPTGDLPFHWICQPYIRPGPREGSKEKA
GARSKRALEEEEGGTEVLSKNKQKKQLRNPHKTFDPSLKPKYAKCDQCGNPKGNRCVFSLCRGCCKKRAS
KETADCPGHGLLFKTKLEKSLAWKEAQPELQEPQPAAPGTPGGFSEVMGSALA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6356_d07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022156

ORF Size: 1419 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.

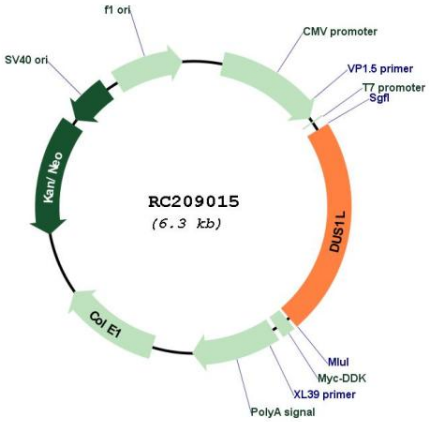
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_022156.5

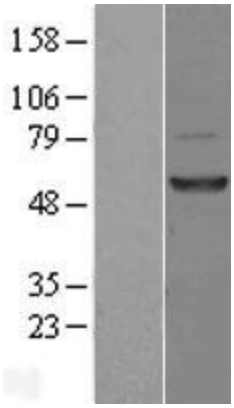
RefSeq Size: 1904 bp

RefSeq ORF:	1422 bp
Locus ID:	64118
UniProt ID:	Q6P1R4
Cytogenetics:	17q25.3
MW:	53.2 kDa
Gene Summary:	Catalyzes the synthesis of dihydrouridine, a modified base found in the D-loop of most tRNAs. [UniProtKB/Swiss-Prot Function]

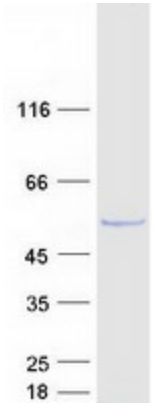
Product images:



Circular map for RC209015



Western blot validation of overexpression lysate (Cat# [LY411733]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209015 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DUS1L protein (Cat# [TP309015]). The protein was produced from HEK293T cells transfected with DUS1L cDNA clone (Cat# RC209015) using MegaTran 2.0 (Cat# [TT210002]).