

Product datasheet for RC222488

DUS4L (NM_181581) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DUS4L (NM_181581) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DUS4L
Synonyms:	DUS4; PP35
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC222488 representing NM_181581 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGAAGAGTGACTGCATGCAAACGACAATATGTCAGGAAAGAAAAAAGATCCCATAGAAATGTTTCATTCTGGACAGCTGGTAAAAGTCTGTGCCCAATGGTTCGATATTCAAAAGTTGGCTTTTAGGACACTAGTAAGAAAATATAGTTGTGATCTGTGTTACACACCAATGATTGTTGCCGCTGATTTGTCAAATCTATAAAAGCCAGAGACAGCGAATTTACCACAAATCAAGGTGATTGCCATTGATTGTTTCAGTTTGCTGCTAACGATGCAGACTTTTATCTGATGCTGCTCGTATAGTCTGTCCTTATGCGAATGGAATAGACATTAAGTGTGGTTGCCCTCAGAGGTGGCAATGGCAGAAGTTATGGGGCTTGCTTAATAAAACAAGCCAGAGCTTGTTCAAGACATGTGAAACAAGTAAGAAATCAAGTGGAAACCCCTGGATTTTCAGTTTCTATTAATAAGGATCCATGATGACCTAAAAGAAGTGTAGATCTTTGTCAAAGGCTGAAGCAACAGGAGTTTCATGGATTACAGTCCATGGAAGAACTGCTGAAGAAAGACATCAGCCAGTGCATGATTCCATTAATAAATTAAGGAAAAATATGTCTATACCTGTAATTGCTAATGGAGACATCAGAAGCTTAAAGGAAGCAGAAAAATGTGTGGCGGATTACTGGGACAGATGGTGTGATGGTTGCAAGAGGACTTTAGCAAACCCGGCCATGTTTGCTGGATATGAGGAAACCCACTGAAATGCATCTGGGACTGGTTGACATTGCTTTGAACCTGGGACTCCTTACATGTGTTCCATCAACATTTAATGTACATGATGAAAAAGATAACTTCAAGGCAGGAAAAAAGGATTTAATGCTCTGTCAAGCATCAGCAATCATAGATTACCTTACAGACCATTATGGCATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC222488 representing NM_181581
Red=Cloning site Green=Tags(s)

MKSDCMQTTICQERKKDPIEMFHSGQLVKVCAPMVRYSKLAFRTLVRKYSCDLCYTPMIVAADFVKSIIKARDSEFTTNQGDCLIVQFAANDARLLSDAARIVCPYANGIDINCGCPQRWAMAEGYGACLINKPELVQDMVKQVRNQVETPGFSVSIKIRIHDDLKRTVDLCQKAEATGVSWITVHGRTAERHQPVHYDSIKI IKENMSIPVIANGDIRSLKEAENVWRITGTDGVMVARGLLANPAMFAGYEETPLKCIWDWDVIALELGTPLYMCFHQHLMYMMEKITSRQEKRVFNALSSTSIAIDYLDHYGI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6477_c05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_181581

ORF Size: 951 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_181581.3](#)

RefSeq Size: 2252 bp

RefSeq ORF: 954 bp

Locus ID: 11062

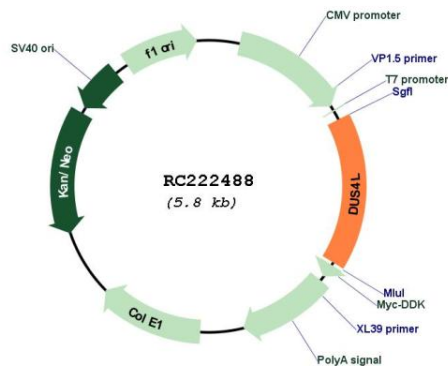
UniProt ID: [O95620](#)

Cytogenetics: 7q22.3

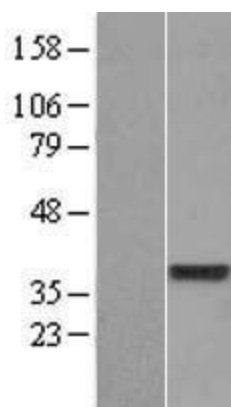
MW: 35.6 kDa

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 RC222488



Western blot validation of overexpression lysate (Cat# [LY405709]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222488 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).