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Product datasheet for RC230062

UDP glucose dehydrogenase (UGDH) (NM_001184700) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UDP glucose dehydrogenase (UGDH) (NM_001184700) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	UDP glucose dehydrogenase
Synonyms:	DEE84; EIEE84; GDH; UDP-GlcDH; UDPGDH; UGD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC230062 representing NM_001184700
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTTGAAATTAAGAAGATCTGTTGCATCGGTGCAGGCTATGTTGGAGGACCCACATGTAGTGTCATTG
CTCATATGTGTCCTGAAATCAGGGTAACGGTTGTTGATGTCAATGAATCAAGAATCAATGCGTGGAATTC
TCCTACACTTCCTATTTATGAGCCAGGACTAAAAGAAGTGGTAGAATCCTGTCGAGGAAAAAATCTTTTT
TTTTCTACCAATATTGATGATGCCATCAAAGAAGCTGATCTTGTATTTATTTCTGTGCTGTCCAACCCTG
AGTTTCTGGCAGAGGGAACAGCCATCAAGGACCTAAAGAACCCAGACAGAGTACTGATTGGAGGGGATGA
AACTCCAGAGGGCCAGAGAGCTGTGCAGGCCCTGTGTGCTGTATATGAGCACTGGGTTCCCAGAGAAAAG
ATCCTCACCACTAATACTTGGTCTTCAGAGCTTTCCAAACTGGCAGCAAATGCTTTTCTTGCCCAGAGAA
TAAGCAGCATTAACTCCATAAGTGCTCTGTGTGAAGCAACAGGAGCTGATGTAGAAGAGGTAGCAACAGC
GATTGGAATGGACCAGAGAATTGGAAACAAGTTTCTAAAAGCCAGTGTTGGGTTTGGTGGGAGCTGTTTC
CAAAAGGATGTTCTGAATTTGGTTTATCTCTGTGAGGCTCTGAATTTGCCAGAAGTAGCTCGTTATTGGC
AGCAGGTCATAGACATGAATGACTACCAGAGGAGGAGGTTTGCTTCCCGGATCATAGATAGTCTGTTTAA
TACAGTAACTGATAAGAAGATAGCTATTTTGGGATTTGCATTCAAAAAGGACACTGGTGATACAAGAGAA
TCTTCTAGTATATATATTAGCAAATATTTGATGGATGAAGGTGCACATCTACATATATATGATCCAAAAG
TACCTAGGGAACAAATAGTTGTGGATCTTTCTCATCCAGGTGTTTCAGAGGATGACCAAGTGTCCCGGCT
CGTGACCATTTCCAAGGATCCATATGAAGCATGTGATGGTGCCCATGCTGTTGTTATTTGCACTGAGTGG
GACATGTTTAAGGAATTGGATTATGAACGCATTCATAAAAAAATGCTAAAGCCAGCCTTTATCTTCGATG
GACGGCGTGTCCTGGATGGGCTCCACAATGAACTACAAACCATTGGCTTCCAGATTGAAACAATTGGCAA
AAAGGTGTCTTCAAAGAGAATTCCATATGCTCCTTCTGGTGAAATTCCGAAGTTTAGTCTTCAAGATCCA
CCTAACAAGAAACCTAAAGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC230062 representing NM_001184700
Red=Cloning site Green=Tags(s)

MFEIKKICCIGAGYVGGPTCSVIAHMCPEIRVTVVDVNESRINAWNSPTLPIYEPGLKEVVESCRGKNLF
FSTNIDDAIKEADLVFISVLSNPEFLAEGTAIKDLKNPDRVLIGGDETPEGQRAVQALCAVYEHWVPREK
ILTTNTWSSELSKLAANAFLAQRISSINSISALCEATGADVEEVATAIGMDQRIGNKFLKASVGFGGSCF
QKDVLNLVYLCEALNLPEVARYWQQVIDMNDYQRRRFASRIIDSLFNTVTDKKIAILGFAFKKDTGDTRE
SSSIYISKYLMDEGAHLHIYDPKVPREQIVVDLSHPGVSEDDQVSRLVTISKDPYEACDGAHAVVICTEW
DMFKELDYERIHKKMLKPAFIFDGRRVLDGLHNELQTIGFQIETIGKKVSSKRIPYAPSGEIPKFSLQDP
PNKKPKV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8059_b02.zip

Restriction Sites: SgfI-MluI

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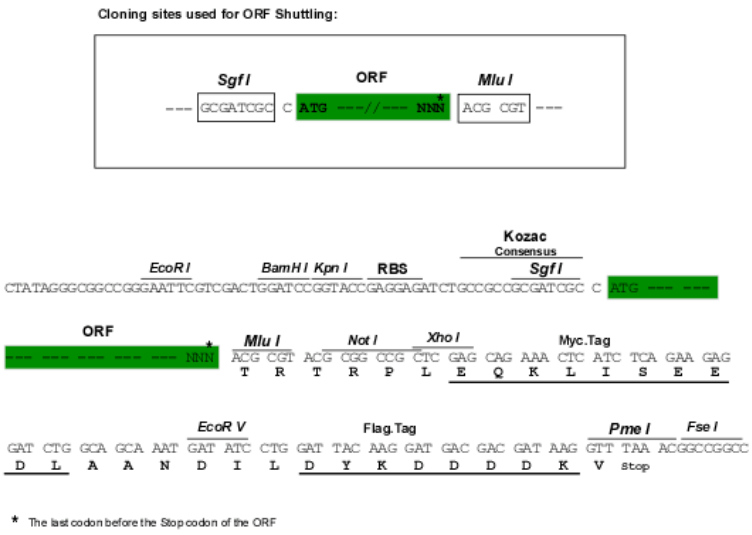
Cloning Scheme:



ACCN: NM_001184700

ORF Size: 1281 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_001184700.2

RefSeq ORF: 1284 bp

Locus ID: 7358

UniProt ID: O60701

Cytogenetics: 4p14

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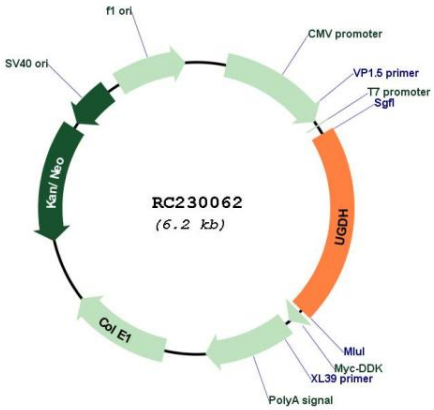
Protein Pathways: Amino sugar and nucleotide sugar metabolism, Ascorbate and aldarate metabolism, Metabolic pathways, Pentose and glucuronate interconversions, Starch and sucrose metabolism

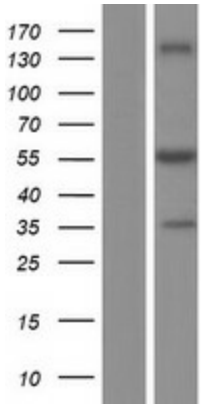
MW: 48.1 kDa

Gene Summary: The protein encoded by this gene converts UDP-glucose to UDP-glucuronate and thereby participates in the biosynthesis of glycosaminoglycans such as hyaluronan, chondroitin sulfate, and heparan sulfate. These glycosylated compounds are common components of the extracellular matrix and likely play roles in signal transduction, cell migration, and cancer growth and metastasis. The expression of this gene is up-regulated by transforming growth factor beta and down-regulated by hypoxia. Alternative splicing results in multiple transcript variants.[provided by RefSeq, May 2010]

Product images:



Circular map for RC230062



Western blot validation of overexpression lysate (Cat# [LY433062]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC230062 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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