

Product datasheet for **RR215586**

Ugdh (NM_031325) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ugdh (NM_031325) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ugdh
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR215586 representing NM_031325
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTTGAGATCAAGAAGATCTGTTGCATTGGTGCGGGCTACGTGCGCGGACCCACATGCAGTGTCAATTG
 CTCGCATGTGCCCTGAAATCAGGGTAACGGTTGTGGATGTCAATGAGGCCAGGATCAATGCATGGAATTC
 TCCAACGCTTCCTATTTATGAGCCTGGACTAAAAGAAGTAGTCGAATCCTGTCGAGGGAAAAACCTCTTT
 TTTTCTACCAATATTGATGATGCCATCAGAGAAGCCGATCTAGTGTTTATTTCTGTGAACACACCAACAA
 AAACATATGGAATGGGAAAAGGCCGGCGGCAGATCTGAAGTATATCGAAGCTTGTGCTCGCCGATTGT
 GCAGAACTCAAATGGGTACAAAATTGTGACTGAGAAAAGCACAGTCCCTGTGCGGGCAGCGGAAAGCATC
 CGCCGCATATTTGATGCCAACACAAAGCCCACTTGAATCTACAGTTCTGTCCAATCCTGAGTTCTTGG
 CAGAGGGAACAGCCATCAAGGACCTAAAGAACCAGACAGAGTCTGATTGGAGGGGATGAGACCCAGA
 GGGCCAGAGAGCTGTTCCAGGCACCTGTGCTGTGTACGAGCACTGGGTTCCCAAGGAAAAGATCCTCACC
 ACCAACACTTGGTCTCAGAGCTTCCAACTGGCAGCCAATGCTTTTCTTGCCAGAGGATCAGCAGCA
 TTAACCTCATAAGTGCTCTGTGTGAAAGCACAGGCCGCGATGTGGAAGAGGTGGCAACGGCTATCGGGAT
 GGACCAAGAATTGAAATAAGTTTCTAAAAGCCAGCGTTGGTTTTGGTGGGGGCTGCTTCCAAAAAGAT
 GTTCTGAATTTGGTTTATCTCTGTGAGGCTCTGAATCTGCCCAGTAGCTGTTACTGGCAGCAGGTCA
 TAGACATGAATGACTACCAGAGGAGGAGTTTGCATCACGGATCATAGACAGCCTGTTTAAACAGTGAC
 TGATAAGAAGATAGCTATCTTGGGGTTTGCCTTCAAAAAGGATACTGGTGATACCAGGGAGTCTCCAGT
 ATCTACATTAGCAAATACCTGATGGACGAGGGTGCACCTCCACATCTACGACCCAAAAGTACCCAGGG
 AGCAGATAGTGGTGGATCTTTCTCATCCAGGCGTCTCAGCGGATGACCAAGTGTCCAGACTGGTGACCAT
 TTCCAAGGATCCATATGAAGCATGTGATGGCGCCCATGCCCTCGTTATCTGCACAGAGTGGGACATGTTT
 AAGGAACTGGATTATGAACGGATTCTAAAAGAATGCTGAAGCCAGCCTCATATTTGATGGCCGGCGTG
 TCCTGGATGGGCTCCACAATGAGCTACAGACCATTGGCTTCCAGATTGAAACAATTGGCAAAAAGGTATC
 TTCCAAGAGAATTCCATACACTCCTGGTGAATTCCAAAGTTTAGTCTTCAGGATCCACCTAACAAAGAAG
 CCCAAAGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR215586 representing NM_031325
 Red=Cloning site Green=Tags(s)

MVEIKKICIGAGYVGGPTCSVIARMCPEIRVTVVDVNEARINAWNSPTLPIYEPGLKEVVESCRGKNLF
 FSTNIDDAIREADLVFISVNTPTKTYGMKGRAADLKYIEACARRIVQNSNGYKIVTEKSTVPVRAAESI
 RRIFDANTKPNLNLQVLSNPEFLAEGTAIKDLKNPDRVLIGGDETPEGQRAVQALCAVYEHWPKEKILT
 TNTWSSELSKLAANAFLAQRISINSISALCESTGADVEEVATAIGMDQRIGNKFLKASVFGGGCFQKD
 VLNLVYLCEALNLPEVARYWQQVIDMNDYQRRRFASRIIDSLFNTVTDKKAAILGFAPKKTGDTRESSS
 IYISKYLMDEGAHLHIYDPKVPREQIVVDLSHPGVSADDQVSRLVTISKDPYEACDGAHALVICTEWDMF
 KELDYERIHKRLKPAFIFDGRRLDGLHNELQTIQFQIETIGKKVSSKRIPYTPGEIPKFSLQDPPNKK
 PKV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

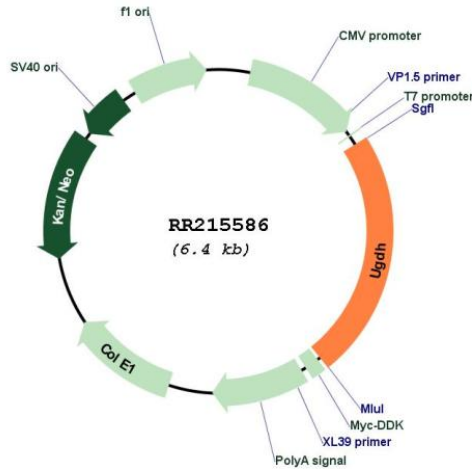
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM_031325

ORF Size: 1479 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_031325.1](#), [NP_112615.1](#)

RefSeq Size: 2318 bp

RefSeq ORF: 1482 bp

Locus ID: 83472

UniProt ID: [O70199](#)

Cytogenetics: 14p11

MW: 54.9 kDa

Gene Summary: Catalyzes the formation of UDP-alpha-D-glucuronate, a constituent of complex glycosaminoglycans (By similarity). Required for the biosynthesis of chondroitin sulfate and heparan sulfate. Required for embryonic development via its role in the biosynthesis of glycosaminoglycans (By similarity).[UniProtKB/Swiss-Prot Function]