

Product datasheet for **MR207903**

Ugdh (NM_009466) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ugdh (NM_009466) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ugdh
Synonyms:	Udpgdh
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207903 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTTGAGATTAAGAAGATCTGTTGCATTGGTGCGGCTATGTCGGCGGACCCACGTGCAGTGTCAATTG
 CTCACATGTGCCCTGAAATCAGGGTTACGGTTGTGGATGTCAACGAGGCAAGGATCAATGCATGGAATTC
 TCCAACCTTCCTATTTATGAGCCTGGATTAAGAAGAGTGTGCAATCCTGTCGAGGAAAAAACCTATTT
 TTTTCTACCAATATTGATGATGCCATCAGAGAAGCCGATCTAGTATTTATTTCTGTGAACACACCAACAA
 AAACATATGGGATGGGAAAAGGCCGGCAGCAGACCTGAAGTATATCGAAGCTTGTGCTCGCCGATTGT
 GCAGAACTCAAATGGGTACAAAATTGTCACGGAGAAAAGCACAGTCCCTGTGCGGCAGCAGAAAGCATC
 CGCCGCATATTTGATGCCAACACAAAGCCCACTGAATTTACAGGTGCTGTCCAATCCTGAGTTCTTGG
 CAGAGGGAACAGCCATCAAGGACCTAAAGAACCCGGACAGAGTCCCTGATTGGAGGGGATGAAACTCCAGA
 GGCCAGAAAGCCGTTCCGGCTCTGTGTCTGTGTATGAGCACTGGGTTCTAAGGAAAAGATCCTCACC
 ACCAACACCTGGTCTCGGAGCTTTCGAAGCTGGCAGCCAATGCATTTCTTGCGCAGAGGATCAGCAGCA
 TCAACTCCATCAGCGCTCTGTGTGAAGCAACAGGCCCGGATGTGGAAGAGGTGGCAACGGCCATCGGGAT
 GGACAAAGAATTGGGAATAAGTTTCTAAAGGCCAGCGTTGGTTTTGGTGAAGCTGCTTCCAAAAAGAT
 GTTCTGAATTTGGTTTATCTCTGTGAGGCTCTGAATCTGCCCAGTAGCTCGTTACTGGCAGCAGGTCA
 TAGACATGAATGACTACCAGAGGAGGAGTTTGCATCACGGATCATAGATAGCCTGTTTAAACAGTGAC
 CGATAAGAAGATAGCTATCTTGGGGTTGCATTCAAAAGGATACTGGTGATACCAGAGAATCCTCCAGT
 ATCTACATTAGCAAGTACCTGATGGACGAGGGTGCACACCTCCACATATATGATCCAAAAGTACCCAGGG
 AACAAATAGTGGTGGACCTTTCTCATCCGGGTCTCAGCGGATGACCAAGTGTCCAGATGGTGACCAT
 TTCCAAGGACCCATACGAAGCGTGTGATGGCGCCCATGCCCTCGTTATCTGCACTGAGTGGGACATGTTT
 AAGGAACTGGATTACGAACGGATTACATAAAAAAATGCTGAAGCCAGCCTTTATCTTTGATGGTGGCGTG
 TCCTGGATGGGCTCCACAGTGAAGTACAGACCATTGGCTTCCAGATTGAAACAATTGGCAAAAAGGTGTC
 TTCCAAGAGAATCCGTACACTCCTGGTGAAGTCCGAAGTTTAGTCTTCAGGACCCACCTAACAAAGAAA
 CCCAAAGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207903 protein sequence
 Red=Cloning site Green=Tags(s)

MVEIKKICIGAGYVGGPTCSVIAHMCPEIRVTVDVNEARINAWNSPTLPIYEPGLKEVVESECRGNLF
 FSTNIDDAIREADLVFISVNTPTKTYGMKGRAADLKYIEACARRIVQNSNGYKIVTEKSTVPVRAAESI
 RRIFDANTKPNLNLQVLSNPEFLAEGTAIKDLKNPDRVLIGGDETPGQKAVRALCAVYEHVWPKEKILT
 TNTWSSELKLAANAFLAQRISINSISALCEATGADVVEVATAIGMDQRIGNKFLKASVFGGSCFQKD
 VLNLVYLCEALNLPEVARYWQVIDMNDYQRRRFASRIIDSLFNTVTDKKAIAILGFATKDTGDTRESSS
 IYISKYLMDEGAHLHIYDPKVPREQIVVDLSHPGVSADDQVSRLVTISKDPYEACDGAHALVICTEWDMF
 KELDYERIHKKMLKPAFIFDGRRLDGLHSELQTIQIETIGKKVSSKRIPYTPGEIPKFSLQDPPNKK
 PKV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_009466

ORF Size: 1482 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_009466.2](#), [NP_033492.1](#)
RefSeq Size: 2461 bp

RefSeq ORF: 1482 bp

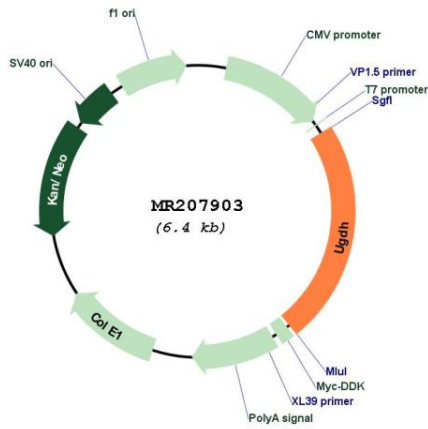
Locus ID: 22235

UniProt ID: [O70475](#)
Cytogenetics: 5 33.67 cM

MW: 54.8 kDa

Gene Summary: Catalyzes the formation of UDP-alpha-D-glucuronate, a constituent of complex glycosaminoglycans (PubMed:9737970). Required for the biosynthesis of chondroitin sulfate and heparan sulfate. Required for embryonic development via its role in the biosynthesis of glycosaminoglycans (PubMed:14505572).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207903