

Product datasheet for **MG207903**

Ugdh (NM_009466) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ugdh (NM_009466) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ugdh
Synonyms:	Udpgdh
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG207903 representing NM_009466
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTTGAGATTAAGAAGATCTGTTGCATTGGTGCGGCTATGTCGGCGGACCCACGTGCAGTGTCAATTG
 CTCACATGTGCCCTGAAATCAGGGTTACGGTTGTGGATGTCAACGAGGCAAGGATCAATGCATGGAATTC
 TCCAACCTTCCTATTTATGAGCCTGGATTAAGAAGAGTGTGCAATCCTGTCGAGGAAAAACCTATTT
 TTTTCTACCAATATTGATGATGCCATCAGAGAAGCCGATCTAGTATTTATTTCTGTGAACACACCAACAA
 AAACATATGGGATGGGAAAAGGCCGGCAGCAGACCTGAAGTATATCGAAGCTTGTGCTCGCCGATTGT
 GCAGAACTCAAATGGGTACAAAATTGTCACGGAGAAAAGCACAGTCCCTGTGCGGGCAGCAGAAAGCATC
 CGCCGCATATTTGATGCCAACACAAAGCCCACTTGAATTTACAGGTGCTGTCCAATCCTGAGTTCTTGG
 CAGAGGGAACAGCCATCAAGGACCTAAAGAACCCGGACAGAGTCCCTGATTGGAGGGGATGAAACTCCAGA
 GGCCAGAAAAGCCGTTCCGGCTCTGTGTCTGTGTATGAGCACTGGGTTCTAAGGAAAAGATCCTCACC
 ACCAACACCTGGTCTCGGAGCTTTCGAAGCTGGCAGCCAATGCATTTCTTGCGCAGAGGATCAGCAGCA
 TCAACTCCATCAGCGCTCTGTGTGAAGCAACAGGCCCGGATGTGGAAGAGGTGGCAACGGCCATCGGGAT
 GGACCAAGAATTGGGAATAAGTTTCTAAAGGCCAGCGTTGGTTTTGGTGGAAAGCTGTTCCAAAAAGAT
 GTTCTGAATTTGGTTTATCTCTGTGAGGCTCTGAATCTGCCCAGTAGCTCGTTACTGGCAGCAGGTCA
 TAGACATGAATGACTACCAGAGGAGGAGTTTGCATCACGGATCATAGATAGCCTGTTTAAACAGTGAC
 CGATAAGAAGATAGCTATCTTGGGGTTGCATTCAAAAGGATACTGGTGATACCAGAGAATCCTCCAGT
 ATCTACATTAGCAAGTACCTGATGGACGAGGGTGCACACCTCCACATATATGATCCAAAAGTACCCAGGG
 AACAAATAGTGGTGGACCTTTCTCATCCGGGTCTCAGCGGATGACCAAGTGTCCAGATGGTGACCAT
 TTCCAAGGACCCATACGAAGCGTGTGATGGCGCCCATGCCCTCGTTATCTGCACTGAGTGGGACATGTTT
 AAGGAACTGGATTACGAACGGATTACATAAAAAAATGCTGAAGCCAGCCTTTATCTTTGATGGTGGCGTG
 TCCTGGATGGGCTCCACAGTGAGCTACAGACCATTGGCTTCCAGATTGAAACAATTGGCAAAAAGGTGTC
 TTCCAAGAGAATCCGTACACTCCTGGTGGATTCGAAGTTTAGTCTTCAGGACCCACCTAACAAAGAAA
 CCCAAAGTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207903 representing NM_009466
 Red=Cloning site Green=Tags(s)

MVEIKKICIGAGYVGGPTCSVIAHMCPEIRVTVVDVNEARINAWNSPTLPIYEPGLKEVVEVESCGRKNLF
 FSTNIDDAIREADLVFISVNTPTKYGMKGRAADLKYIEACARRIVQNSNGYKIVTEKSTVPVRAAESI
 RRIFDANTKPNLNLQVLSNPEFLAEGTAIKDLKNPDRVLIGGDETPGQKAVRALCAVYEHWPKEKILT
 TNTWSSELSKLAANAFLAQRISINSISALCEATGADVVEEVATAIGMDQRIGNKFLKASVFGGSCFQKD
 VLNLVYLCEALNLPEVARYWQQVIDMNDYQRRRFASRIIDSLFNTVTDKKAIALGFATKDTGDTRESSS
 IYISKYLMDEGAHLHIYDPKVPREQIVVDLSHPGVSADDQVSRLVTISKDPYEACDGAHALVICTEWD MF
 KELDYERIHKKMLKPAFIFDGRRLDGLHSELQITGFQIETIGKKVSSKRIPYTPGEIPKFLQDPPNKK
 PKV

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Kozac
Consensus

EcoR I BamH I Kpn I RBS Sgf I Asc I

CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT

Hind III Nhe I Rsr II Mlu I Not I Xho I GFP Tag

CAAGCTTAACTAGCTAGCGGACCG ACG CGT ACG CGG CTC GAG ATG GAG AGC GAC --- --- ---

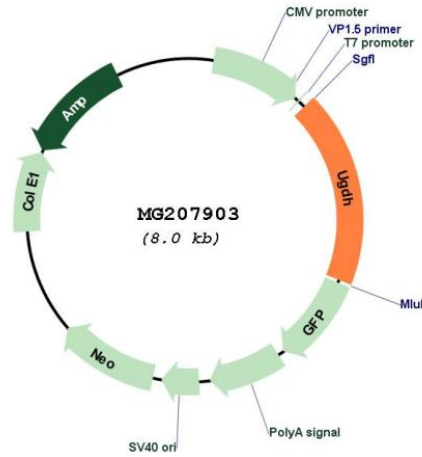
T R T R P L E M E S D - - -

Pme I Fse I

--- --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT

- - - E E R V Stop

Plasmid Map:



ACCN: NM_009466

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_009466.2](#), [NP_033492.1](#)

RefSeq Size: 2461 bp

RefSeq ORF: 1482 bp

Locus ID: 22235

UniProt ID: [O70475](#)

Cytogenetics: 5 33.67 cM

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]