

Product datasheet for **SC300024**

IDUA (NM_000203) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IDUA (NM_000203) Human Untagged Clone
Tag:	Tag Free
Symbol:	IDUA
Synonyms:	IDA; MPS1; MPSI
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_000203 edited
 GAATTCGCGTGGCCATGCGTCCCTGCGCCCCGCGCCGCGCTGCTGGCGCTCCTGGCC
 TCGTCTCTGGCCGCGCCCCGGTGGCCCCGGCCGAGGCCCCGCACCTGGTGCATGTGGAC
 GCGGCCCGCGCGCTGTGGCCCCGCGGCGCTTCTGGAGGAGCACAGGCTTCTGCCCCCG
 CTGCCACACAGCCAGGCTGACAGTACGTCCTCAGCTGGGACCAGCAGCTCAACCTCGCC
 TATGTGGGCGCCGTCCTCACCCGCGCATCAAGCAGGTCGGACCCACTGGCTGTGGAG
 CTTGTACACACCAGGGGTCACACTGGACGGGGCTGAGCTACAACCTCACCCACCTGGAC
 GGGTACCTGGACCTTCTCAGGGAGAACCAGCTCCTCCCAGGGTTTGGAGCTGATGGGCAGC
 GCCTCGGGCCACTTCACTGACTTTGAGGACAAGCAGCAGGTGTTTGGAGTGAAGGACTTG
 GTCTCCAGCCTGGCCAGGAGATACATCGGTAGGTACGGACTGGCGCATGTTTCCAAGTGG
 AACTTCGAGACGTGGAATGAGCCAGACCACCACGACTTTGACAACGTCTCCATGACCATG
 CAAGGCTTCTGAACTACTACGATGCCTGCTCGGAGGGTCTGCGCGCCGCCAGCCCCGCC
 CTGCGGCTGGGAGGCCCGGCGACTCCTCCACACCCACCGCATCCCCGCTGAGCTGG
 GGCCTCCTGCGCCACTGCCACGACGGTACCAACTTCTTCACTGGGAGGGGGCGTGGCG
 CTGGACTACATCTCCCTCCACAGGAAGGGTGGCGCAGCTCCATCTCCATCCTGGAGCAG
 GAGAAGGTCGTCGCGCAGCAGATCCGGCAGCTTTCCTCCAAAGTTCGCGGACACCCCCATT
 TACAACGACGAGGCGGACCCGCTGGTGGGCTGGTCCCTGCCACAGCCGTGGAGGGCGGAC
 GTGACCTACGCGGCCATGGTGGTGAAGGTCATCGCGCAGCATCAGAACCTGCTACTGGCC
 AACACCACCTCCGCTTCCCCTACGCGCTCCTGAGCAACGACAATGCCTTCTGAGCTAC
 CACCCGCACCCCTTCGCGCAGCGCACGCTCACCGCGCTTCCAGGTCAACAACACCCGC
 CCGCCGCACGTGCAGCTGTTGCGCAAGCCGGTGTACGGCCATGGGGCTGCTGGCGCTG
 CTGGATGAGGAGCAGCTCTGGCCGAAGTGTGCGAGGCCGGGACCGTCTGGACAGCAAC
 CACACGGTGGGCGTCTTGCCAGCGCCACCCGCCAGGGCCCGGCGACGCTGGCGC
 GCCGCGGTGCTGATCTACGCGAGCGACGACACCCGCGCCACCCCAACCGCAGCGTCGCG
 GTGACCTGCGGCTGCGCGGGTGCSCCCCGGCCCGGGCTGGTCTACGTACGCGCTAC
 CTGGACAACGGGCTCTGCAGCCCCGACGGCAGTGGCGCGCCTGGGCCGGCCCGTCTTC
 CCCACGGCAGAGCAGTTCGGCGCATGCGCGGGCTGAGGACCCGGTGGCCGCGGCGCC
 CGCCCCCTACCCGCGGCGGCGCCTGACCCTGCGCCCCGCGCTGCGGCTGCCGTGCTT
 TTGCTGGTGCACGTGTGCGCGCCCCGAGAAGCCGCCCGGCGAGGTACGCGGCTCCGC
 GCCCTGCCCTGACCCAAGGGCAGCTGGTCTGGTCTGGTGGATGAACACGTGGGCTCC
 AAGTGCCTGTGGACATACGAGATCCAGTCTCTCAGGACGGTAAGGCGTACACCCCGGT
 AGCAGGAAGCCATCGACCTTCAACCTCTTGTGTTGAGCCAGACACAGGTGCTGTCTCT
 GGCTCCTACCGAGTTCGAGCCCTGGACTACTGGGCCCGACCAGGCCCTTCTCGGACCT
 GTGCCGTACCTGGAGGTCCTGTGCCAAGAGGGCCCCATCCCCGGGCAATCCATGAGCC
 TGTGCTGAGCCCCAGTGGGTTGCACCTCCACCGGCGAGTCAGCGAGCTGGGGCTGCACTGT
 GCCCATGCTGCCCTCCCATACCCCTTTGCAATATATTTTTATATTTTTTAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_000203

Insert Size: 2100 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>The open reading frame of this clone has been fully sequenced and found to be a perfect match to the protein associated with this reference, NM_000203.3.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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:	<p>NM_000203.2, NP_000194.1</p>
RefSeq Size:	<p>2197 bp</p>
RefSeq ORF:	<p>1962 bp</p>
Locus ID:	<p>3425</p>
UniProt ID:	<p>P35475</p>
Cytogenetics:	<p>4p16.3</p>
Protein Families:	<p>Druggable Genome</p>
Protein Pathways:	<p>Glycosaminoglycan degradation, Lysosome, Metabolic pathways</p>
Gene Summary:	<p>This gene encodes an enzyme that hydrolyzes the terminal alpha-L-iduronic acid residues of two glycosaminoglycans, dermatan sulfate and heparan sulfate. This hydrolysis is required for the lysosomal degradation of these glycosaminoglycans. Mutations in this gene that result in enzymatic deficiency lead to the autosomal recessive disease mucopolysaccharidosis type I (MPS I). [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) encodes the functional protein.</p>