

Product datasheet for **SC109337**

Iduronate 2 sulfatase (IDS) (NM_006123) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Iduronate 2 sulfatase (IDS) (NM_006123) Human Untagged Clone
Tag:	Tag Free
Symbol:	Iduronate 2 sulfatase
Synonyms:	ID2S; MPS2; SIDS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_006123, the custom clone sequence may differ by one or more nucleotides

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ATGCCGCCACCCCGACCGGCCGAGGCCTTCTCTGGCTGGGTCTGGTTCTGAGCTCCGTCTGCGTCGCC  
TCGGATCCGAAACGCAGGCCAACTCGACCACAGATGCTCTGAACGTTCTTCTCATCATCGTGGATGACCT  
GCGCCCCCTCCCTGGGCTGTTATGGGGATAAGCTGGTGAGGTCCCCAAATATTGACCAACTGGCATCCCAC  
AGCCTCCTCTCCAGAATGCCTTTGCGCAGCAAGCAGTGTGCGCCCCGAGCCGCTTTCTTCTCACTG  
GCAGGAGACCTGACACCACCCGCTGTACGACTTCAACTCCTACTGGAGGGTGCACGCTGGAACCTTCTC  
CACCATCCCCAGTACTCAAGGAGAATGGCTATGTGACCATGTCGGTGGGAAAAGTCTTTCACCCTGGG  
ATATCTTCTAACCATAACCGATGATTCTCGGTATAGCTGGTCTTTCCACCTTATCATCCTTCTCTGAGA  
AGTATGAAAACACTAAGACATGTCGAGGGCCAGATGGAGAACTCCATGCCAACCTGCTTTGCCCTGTGGA  
TGTGCTGGATGTTCCCGAGGGCACCTTGCTGACAAAACAGAGCACTGAGCAAGCCATACAGTTGTTGGAA  
AAGATGAAAACGTCAGCCAGTCCCTTTCTTCTGGCCGTTGGGTATCATAAGCCACACATCCCCTTCAGAT  
ACCCCAAGGAATTTGAGAAGTTGTATCCCTTGGAGAACATCACCTGGCCCCGATCCCAGGTCCTCGA  
TGGCCTACCCCTGTGGCTACAACCCCTGGATGGACATCAGGCAACGGGAAGACGTCCAAGCCTTAAAC  
ATCAGTGTGCCGTATGGTCCAATTCCTGTGGACTTTCAGCGGAAAATCCGCCAGAGCTACTTTCCTCTG  
TGTCATATTTGGATACACAGGTCGGCCGCTCTTGAGTGCTTTGGACGATCTTCAGCTGGCCAACAGCAC  
CATCATTGCATTTACCTCGGATCATGGTTTCCTCATGAGGACAAAATACCTGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_006123 unedited TCCAATAGGTATACGACTTACTATAGGGCGGCCGCGCAATTCGCACGAGGCGCCGCTCT GAACGGCCGCGTCGAACCGAATGCCGCCACCCCGACCGCCGAGGCCTTCTCTGGCTGG GTCTGGTTCTGAGCTCCGTCTGCGTCGCCCTCGGATCCGAAACGCAGGCCAACTCGACCA CAGATGCTCTGAACGTTCTTCTCATCATCGTGGATGACCTGCGCCCTCCCTGGGCTGTT ATGGGGATAAGCTGGTGAGGTCCCCAAATATTGACCAACTGGCATCCCACAGCCTCCTCT TCCAGAATGCCTTTGCGCAGCAAGCAGTGTGCGCCCCGAGCCGCTTTCTTTCTCACTG GCAGGAGACCTGACACCACCCGCTGTACGACTTCAACTCCTACTGGAGGTGCACGCTG GAAACTTCTCCACCATCCCCAGTACTTCAAGGAGAATGGCTATGTGACCATGTCGGTGG GAAAAGTCTTTCACCCTGGGATATCTTCTAACCATAACCGATGATTCTCCGTATAGCTGGT CTTTTCCACCTTATCATCTTCTCTGAGAAGTATGAAAACACTAAGACATGTTGAGGGC CAGATGGAGAATCCATGCCACCTGCTTTGCCCTGTGGATGTGCTGGATGTTCCCGAGG GCACCTTGGCTGTACAACAGAACTTGAGCAAGCCATACAGTTGTTGAAAAGATGAAA ACGTCAGTCAGTCCTTTCTTCTGGCCGCTGGGTTTCATAAGCACACAATCCCCTTAGAT ACCCCAAGAATTTCAAATTTGTCTCCCTTGAGGACATAACCTTGTCCCCGTTCCCGAA GCCTGTATGGCCTACACCCCGTGGGCTCAAACCCCGTGGGCTTATGGCACGGGGAGA CGTTCAAACCTTAACAATAATTGGCCCCGGGACACCCCTCGTGGCTTTATGCGGAATTT CTCCCACTTCT
Restriction Sites:	NotI-NotI
ACCN:	NM_006123
Insert Size:	3900 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<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:	NM_006123.1 , NP_006114.1
RefSeq Size:	1314 bp
RefSeq ORF:	1032 bp
Locus ID:	3423
UniProt ID:	P22304
Cytogenetics:	Xq28
Domains:	Sulfatase

Protein Families: Druggable Genome

Protein Pathways: Glycosaminoglycan degradation, Lysosome, Metabolic pathways

Gene Summary: This gene encodes a member of the sulfatase family of proteins. The encoded preproprotein is proteolytically processed to generate two polypeptide chains. This enzyme is involved in the lysosomal degradation of heparan sulfate and dermatan sulfate. Mutations in this gene are associated with the X-linked lysosomal storage disease mucopolysaccharidosis type II, also known as Hunter syndrome. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed. [provided by RefSeq, Jan 2016]
Transcript Variant: This variant (2) contains an alternate 3' terminal exon compared to variant 1. The encoded isoform (b) has a shorter and distinct C-terminus compared to isoform a.