

Product datasheet for **SC106082**

Iduronate 2 sulfatase (IDS) (AF050145) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Iduronate 2 sulfatase (IDS) (AF050145) Human Untagged Clone
Tag:	Tag Free
Symbol:	IDS
Synonyms:	MPS2; SIDS
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for AF050145, the custom clone sequence may differ by one or more nucleotides

```
ATGCCGCCACCCCGACCGGCCGAGGCCTTCTCTGGCTGGGTCTGGTTCTGAGCTCCGTCTGCGTCGCC  
TCGGATCCGAAACGCAGGCCAACTCGACCACAGATGCTCTGAACGTTCTTCTCATCATCGTGGATGACCT  
GCGCCCCCTCCCTGGGCTGTTATGGGGATAAGCTGGTGAGGTCCCCAAATATTGACCAACTGGCATCCCAC  
AGCCTCCTCTCCAGAATGCCTTTGCGCAGCAAGCAGTGTGCGCCCCGAGCCGCTTTCTTCTCACTG  
GCAGGAGACCTGACACCACCCGCTGTACGACTTCAACTCTACTGGAGGGTGCACGCTGGAACCTTCTC  
CACCATCCCCAGTACTTCAAGGAGAATGGCTATGTGACCATGTCGGTGGGAAAAGTCTTTCACCCTGGT  
ACTGCTCCATGTCCAGAGTCTGGTTCTCTTGGTTTGTGGTGTCTGAATCCAGCATTCCCATCCTGGGGA  
TGGGGCTGCTTTGCAGAGCCCTTCTGGCTGGGCGAGTCCCTCGCTAG
```



[View online »](#)

5' Read Nucleotide Sequence:	>OriGene 5' read for AF050145 unedited GGGCGGCCCGGAATTCGCACGAGGGTCGCACGGACGCACTCGCGCTGCGGCCAGCGCCC GGGCCTGCGGGCCCGGGCGGGCGGTGTGTTGCGCAGTCTTCATGGGTTCCCGACGAGGAG GTCTCTGTGGCTGCGGGCGGGCTGCTAACTGCGCCACCTGTGCAGCCTGTCCCCGCCG CTCTGAAGCGGCCGCGTGAAGCCGAAATGCCGCCACCCGGACCGGCCGAGGCCCTTCTC TGGCTGGGTCTGGTTCTGAGCTCCGTCTGCGTCCGCCCTCGGATCCGAAACGCAGGCCAAC TCGACCACAGATGCTCTGAACGTTCTTCTCATCATCGTGGATGACCTGCGCCCCCTCCCTG GGCTGTTATGGGGATAAGCTGGTGAGGTCCCAATATTGACCAACTGGCATCCACAGC CTCCTCTTCCAGAATGCCTTTGCGCAGCAAGCAGTGTGCGCCCCGAGCCGCGTTTCTTTC CTCACTGGCAGGAGACCTGACACCACCCGCTGTACGACTTCACTCCTACTGGAGGGTG CACGCTGGAAACTTCTCCACCATCCCCAGTACTTCAAGGAGAATGGCTATGTGACCATG TCGGTGGGAAAAGTCTTTCACCCTGAGATATCTTCTAACCATACCGATGATTCTCCGTAT AGTAGTCTTTTCCACCTTATCATCCTTCTCTGAGAGTATGAAACACTAAAAGTGTGCA GGCCAGATGAGAACTCCTGCAACCTGCTTCCCTGGGATGGCTGGATGTCCCAGCCACT TGCTGACAACAGACACTGAGCAGCCATACAGTGTGGAAAAAGAAACGTNACCAGTCC TTTCTTCTGCCCGTGGTATATAAGCACCCCTCCCTCAGAACCCAAGAN
Restriction Sites:	NotI-NotI
ACCN:	AF050145
Insert Size:	4700 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:	AF050145.1 , AAC05984.1
RefSeq Size:	1098 bp
RefSeq ORF:	1098 bp
Locus ID:	3423
Cytogenetics:	Xq28
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]