

Specifications:

Gene:	<i>hIDS</i>
Accession:	NP_000193.1
Insert size:	1666bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

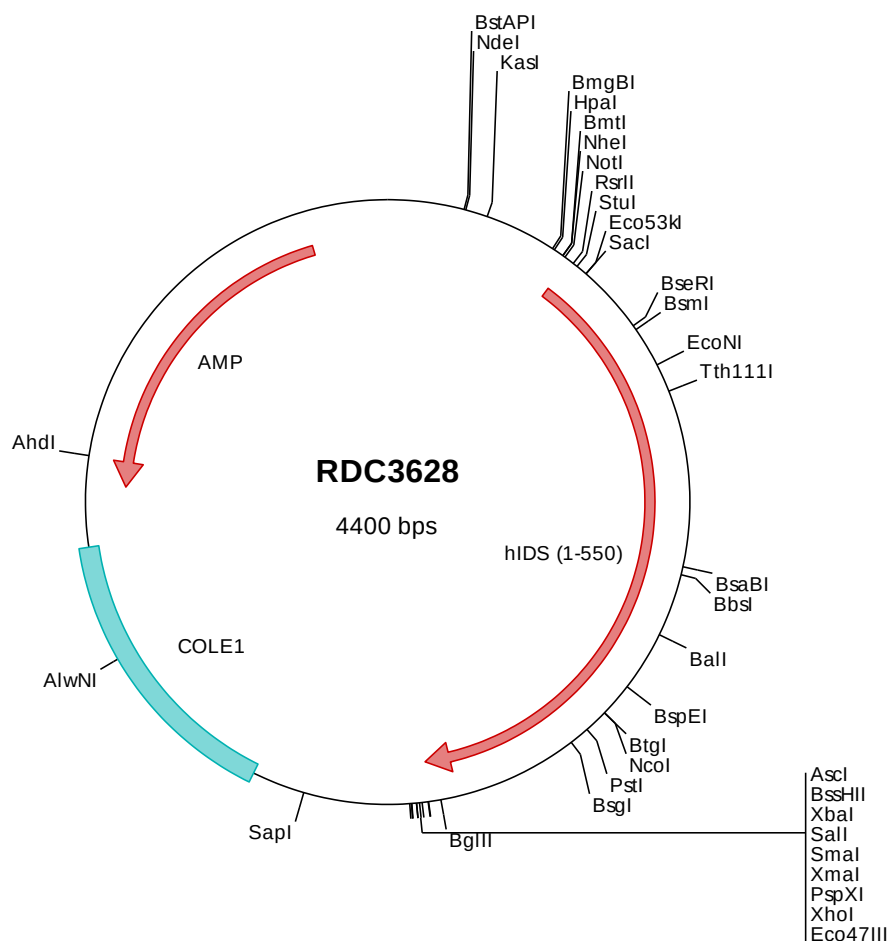
hIduronate 2-Sulfatase cDNA Plasmid

IDS iduronate 2-sulfatase
[*Homo sapiens* (human)]

Also known as: ID2S; MPS2; SIDS

Summary:

Iduronate 2-Sulfatase a member of the sulfatase family of proteins. Iduronate 2-Sulfatase is proteolytically processed to generate two polypeptide chains. It is involved in the lysosomal degradation of heparan sulfate and dermatan sulfate. Mutations in Iduronate 2-Sulfatase 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.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC3628 Plasmid DNA Sequence

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1   tcgcgcgcttt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacgggtc cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg ctttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaggg ggaatgtctg caaggcgatt aagttgggta atgccagggt tttcccgatc acgacgttgt aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagctt ggaatcgata tcgctagcgc ggcgcgcacc atgcgcgcac cccggaaccg ccgagggcct ctctggctgg gtctggttct
501  gagctccgctc tgcgtcgccc tccgatccga aacgcaggcc aactcgacca cagatgtctc gaacgttctt ctcatcatcg tggatgaact gcgccctcc
601  ctgggctggt atggggataa gctggtgagg tcoccaata ttgaccaact ggcatccacc agcctcctct tcagaaatgc ctttgcgcag caagcagtgt
701  gcgcgccgag ccgcgcttct ttcctcactg gcaggagacc tgacaccacc cgctgttacg acttcaactc ctactggagg gtgcacgctg gaaacttctc
801  cacctatccc cagtacttca aggagaatgg ctatgtgacc atgtcggtgg gaaaagtctt tcacctgggg atatcttcta accatactga tgattctccg
901  tatagctggt cttttccacc ttatcatcct tcctctgaga agtatgaaa cactaagaca tgctgagggc cagatggaga actccatgcc aacctgcttt
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1501 tttgatgttg ctacccatgt tcocctgata ttctatgttc ctggaaggac ggcttcaact coggaggcag gcgagaagct tttcccttac ctcgaccttt
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2201 aattgtttat cgctcaacaat tcacacaca atcacgagcc gaagcataaa gtgtaaagcc tggggtgctt aatgagttag ctaactcaca tttaattgct
2301 tgccgtcact gcccgttttc cagtcgggaa acctgtcgtg ccagctgcac taatgaatcg gccaacgcgc ggggagaggg ggttttcgta ttggcgctc
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2501 ggggataacg caggaaagaa catgtgagca aaaggccagc aaaaggccag gaacccgtaa aaggccgcgt tgctggcgtt tttccatagg ctccgcccc
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4201 actcttctct tttcaatatt attgaagcat ttatcagggt tattgtctca tgagcggata catatttgaa tgatatttag aaaataaaca aatagggtgt
4301 ccgcgcacat ttccccgaaa agtgcacct gacgtctaag aaaccattat tatcatgaca ttaacctata aaaataggcg tatcacgagg ccctttcgtc

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> RDC3628 Translated Insert Sequence

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1   mppprtgrgl lwlglvlssv cvalgsetqa nsttdalnlv liivddlrps lgcygdklvr spnidqlash slfqnafaq qavcapsrvs fltgrrrpdt
101  rlydfnsywr vhagnfstip qyfkengyvt msvgkvfhpg issnhtddsp yswsfppyp ssekyentkt crgpdgelha nllcpvdvld vpegtlpdkq
201  steqaiqlle kmktsasppf lavgyhkphi pfrypkfegk lylenitla pdpevpdglp pvaynpwmdi rqredvqaln isvpygpiqv dfqrkirkqsy
301  fasvsyldtq vgrllsaldd lqlanstiia ftsdhgwalg ehgewakysn fdvathvpli fyvpgrtasl peageklfpy ldpfdsasql mepgrqsmld
401  velvslfptl aglaglqvpp rcpvpsfhve lcregnllk hfrfrdlead pylpgnprel iaysqyrps dipqwnsdxp slkdikimgy sirtidyryt
501  vvwgfnpdef lanfedsihag elyfvdsdpl qdhnmynds qgdldfqlmp

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