

Product datasheet for **RG215294**

Iduronate 2 sulfatase (IDS) (NM_006123) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Iduronate 2 sulfatase (IDS) (NM_006123) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IDS
Synonyms:	ID2S; MPS2; SIDS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215294 representing NM_006123 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGCCACCCCGACCGCCGAGGCCTTCTCTGGCTGGGTCTGGTTCTGAGCTCCGTCTGCGTCGCCC
TCGGATCCGAAACGCAGGCCAACTCGACCACAGATGCTCTGAACGTTCTTCTCATCATCGTGGATGACCT
GCGCCCTCCCTGGGCTGTTATGGGGATAAGCTGGTGAGGTCCCAAATATTGACCAACTGGCATCCAC
AGCCTCCTTCCAGAATGCCTTTCGCGAGCAAGCAGTGTGCGCCCGAGCCGCTTCTTCTCCTCACTG
GCAGGAGACCTGACACCACCCGCTGTACGACTCAACTCCTACTGGAGGGTGCACGCTGAAACTTCTC
CACCATCCCCAGTACTTCAAGGAGAATGGCTATGTGACCATGTGCGTGGGAAAAGTCTTTCACCCTGGG
ATATCTTCTAACCATAACCGATGATTCTCCGTATAGCTGGTCTTTTCCACCTTATCATCCTTCTCTGAGA
AGTATGAAAACACTAAGACATGTGAGGGCCAGATGGAGAATCCATGCCAACCTGCTTTGCCCTGTGGA
TGTGCTGGATGTTCCCGAGGGCACCTTGCTGACAAACAGAGCACTGAGCAAGCCATACAGTTGTTGGAA
AAGATGAAAACGTCAGCCAGTCCCTTCTTCTGCGCGTTGGGTATCATAAGCCACACATCCCTTCAGAT
ACCCAAAGGAATTCAGAAGTTGTATCCCTTGGAGAATCACCCTGGCCCCGATCCCGAGGTCCCTGA
TGGCCTACCCCTGTGGCCTACAACCCCTGGATGGACATCAGGCAACGGGAAGACGTCCAAGCCTTAAAC
ATCAGTGTGCCGTATGGTCCAATTCCTGTGGACTTTCAGCGGAAAATCCGCCAGAGCTACTTTGCCTCTG
TGTCATATTTGGATACACAGGTGCGCCGCTCTTGAGTGTCTTGGACGATCTTCAGCTGGCCAACAGCAC
CATCATTGCATTTACCTCGGATCATGGTTTCTCATGAGGACAAATACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG215294 representing NM_006123
 Red=Cloning site Green=Tags(s)

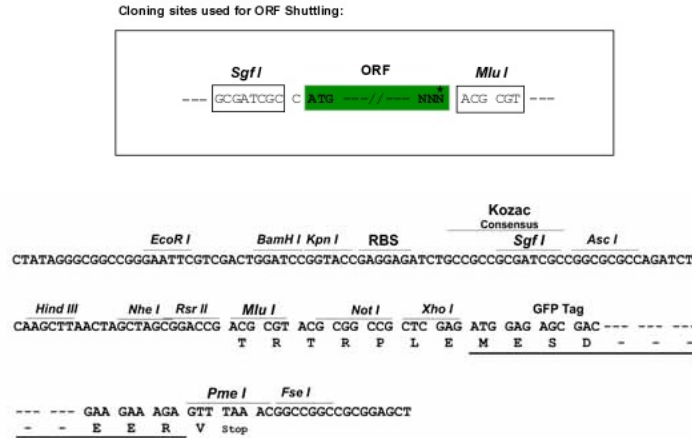
MPPPRTRGRLLWLGLVLSVVCVALGSETQANSTTDALNVLLIIVDDL RPSLGCYGDKLV RSPNIDQLASH
 SLLLFQNAFAQQAVCAPSRVSFLTGRRPDTRL YDFNSYWRVHAGNFSTIPQYFKENGYVTMSVGKVFHPG
 ISSNHTDDSPYSWSFPPYHPSSEKYENTKTCRGPDGELHANLLCPVDVLDVPEGLPKQSTEQAIQLLE
 KMKTSASPFLLAVGYHKPHIPFRYPKEFQKLYPLENITLAPDPEVPDGLPPVAYNPWMDIRQREDVQALN
 ISVPYGPVDFQRKIRQSYFASVSYLDTQVGRLLSALDDLQLANSTIIAFTSDHGFLMRTNT

TRTRPLE - GFP Tag - V

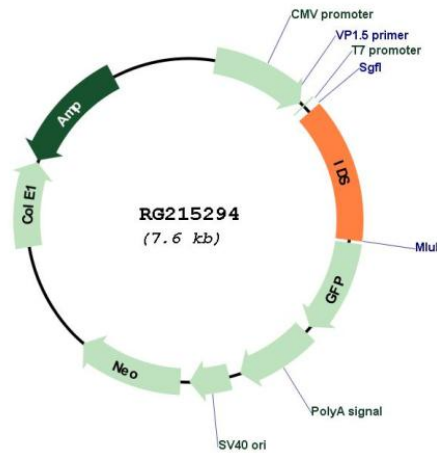
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_006123

ORF Size: 1029 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:	<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_006123.5
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]