

Product datasheet for **RG210431**

Steroid sulfatase (STS) (NM_000351) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Steroid sulfatase (STS) (NM_000351) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Steroid sulfatase
Synonyms:	ARSC; ARSC1; ASC; ES; SSDD; XLI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG210431 representing NM_000351
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCTTTAAGGAAGATGAAGATCCCTTCTCTACTGTCTTTCTGTGGGAAGCCGAGAGCCACGCAG
 CATCAAGGCCGAACATCATCCTGGTGATGGCTGACGACCTCGGCATTGGAGATCTGGGTCTATGGGAA
 CAAAATATCAGGACTCCCAATATCGACCGGTTGGCCAGTGGGGGAGTAAACTCACTCAGCACCTGGCA
 GCATCACCCTGTGCACACCAAGCAGGGCAGCCTTCATGACTGGCCGGTACCCTGTCCGATCAGGAATGG
 CATCTTGGTCCCAGCTGGAGTTTTCTCTTACAGCCTCTTCGGGAGGACTTCCACCGATGAGATTAC
 CTTTGCTAAGCTTCTGAAGGATCAAGGTTATTCAACAGCACTGATAGGGAAATGGCACCTTGGGATGAGC
 TGTCACAGCAAGACTGACTTCTGTCACCACCCTTACATCAGGGCTTCAATATTTCTATGGGATCTCTT
 TGACCAATCTGAGAGACTGCAAGCCCGGAGAGGGCAGTGTCTTACCACGGGCTTCAAGAGGCTGGTCTT
 CCTCCCCCTGCAGATCGTCGGGGTACCCTCCTTACCCTTGCTGCACTCAATTGTCTGGGGCTACTCCAC
 GTGCCTCTAGGCGTTTTTTTTCAGCCTTCTCTCTAGCAGCCCTAATCCTGACCCTTTTCTTGGGCTTCC
 TTCATTACTTCCGGCCCTGAAGTGTTCATGATGAGGAACTACGAGATCATTCAGCAGCCCATGTCCCTA
 TGACAATCTACCCAGAGGCTAACGGTGGAGGGCGCCAGTTCATACAGCGGAACACTGAGACTCCGTTC
 CTGCTTGTCTTGTCTACCTCCACGTGCACACAGCCCTGTTCTCCAGCAAAGACTTTGCTGGCAAAGTC
 AACACGGAGTCTACGGGGATGCTGTTGAGGAAATGGACTGGAGTGTGGGGCAGATCTTGAACCTTCTGGA
 TGAGCTGAGATTGGCTAATGATACCCTCATCTACTTACATCGGACCAGGGAGCAGATGTAGAAGAAGTG
 TCTTCAAAGGAGAAAATTCATGGCGGAAGTAATGGGATCTATAAAGGAGGAAAAGCAAACAACCTGGGAAG
 GAGGTATCCGGGTTCCAGGCATCCTTCGTTGGCCAGGGTGATACAGGCTGGCCAGAAGATTGATGAGCC
 CACTAGCAACATGGACATATTTCTACAGTAGCCAAGCTGGCTGGAGCTCCCTTGCTGAGGACAGGATC
 ATTGATGGACGTGATCTGATGCCCTGCTTGAAGGAAAAAGCCAACGCTCCGATCATGAGTTTCTCTTCC
 ATTACTGCAACGCCTACTTAAATGCTGTGCGCTGGCACCCCTCAGAACAGCACATCCATCTGGAAGCCCTT
 TTTCTTACCCCCAACTTCAACCCCGTGGGTTCCAACGGATGCTTGGCCACACAGTGTGCTTCTGTTTT
 GGGAGTTATGTCACCCATCAGGACCCACCTTACTCTTTGATATTTCAAAGATCCAGAGAGAGAAACC
 CACTAACTCCAGCATCCGAGCCCGTTTTATGAAATCCTCAAAGTCATGCAGGAAGCTGCGGACAGACA
 CACCCAGACCCTGCCAGAGGTGCCCGATCAGTTTTCATGGAACAACCTTTCTTGGAGCCCTGGCTTCCAG
 CTGTGCTGCTCTCCACCGCCTGTCTTCCAGTGTGATAGAGAAAAACAGGATAAGAGACTGAGCCGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG210431 representing NM_000351
 Red=Cloning site Green=Tags(s)

MPLRKMKIPFLLLFFLWEAESHASRPNIILVMADDLIGIDPGCYGNKTI RTPNIDRLASGGVKLTQHLLA
 ASPLCTPSRAAFMTGRYPVRSVMASWSRTGVFLFTASSGGLPTDEITFAKLLKDQGYSTALIGKWHLGMS
 CHSKTDFCHHPLHHGFNYFYGISLTNLRDCKPGEESVFTTGFKRLVFLPLQIVGVTLTLLAALNCLGLLH
 VPLGVFFSLLFLAALILTLFLGFLHYFRPLNCFMMRNIEIIQQPMSYDNLQRLTVEAAQFIQRNTEPF
 LLVLSYLVHTALFSSKDFAGKSQHGVDYDAVEEMDWSVGQILNLLDELRLANDTLIYFTSDQGAHVEEV
 SSKGEIHGGSNGIYKGGKANNWEGGIRVPGILRWPRVIQAGQKIDEPTSNMDIFPTVAKLAGAPLPEDRI
 IDGRDLMPLEGGKQSRSDHEFLFHYCNAYLNAVRWHPQNSTSIWKAFFFTPNFNPVGSNGCFATHVCF
 GSYVTHHDPPLLDIISKDPRERNP LTPASEPRFYEILKVMQEAADRHTQTLPEVPDQFSWNNFLWKPWLQ
 LCCPSTGLSCQCDREKQDKRLSR

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_000351

ORF Size: 1749 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:

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_000351.6](#)

RefSeq Size: 6366 bp

RefSeq ORF: 1737 bp

Locus ID: 412

UniProt ID: [P08842](#)

Cytogenetics: Xp22.31

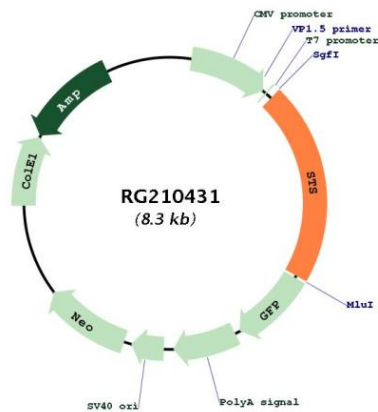
Domains: Sulfatase

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Androgen and estrogen metabolism

Gene Summary: This gene encodes a multi-pass membrane protein that is localized to the endoplasmic reticulum. It belongs to the sulfatase family and hydrolyzes several 3-beta-hydroxysteroid sulfates, which serve as metabolic precursors for estrogens, androgens, and cholesterol. Mutations in this gene are associated with X-linked ichthyosis (XLI). Alternatively spliced transcript variants resulting from the use of different promoters have been described for this gene (PMID:17601726). [provided by RefSeq, Mar 2016]

Product images:



Circular map for RG210431