

Product datasheet for **RG210799**

uronyl 2 sulfotransferase (UST) (NM_005715) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | uronyl 2 sulfotransferase (UST) (NM_005715) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | uronyl 2 sulfotransferase |
| Synonyms: | 2OST |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG210799 representing NM_005715 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGAAGAAGCAGCAGCATCCCGGGCGGGCGCGGATCCCTGGCCCCATGGGGCCCCTATGGGGGGCG
CCCCTCCGGGCTGGGCAGCTGGAAGCGTCGGGTGCCCTGCTGCCTTCTCCTGCGCTTCTCCCTCCGGGA
CTACGGCTTCTGCATGGCCACCCTGCTGGTCTTCTGCCTGGGCTCCCTCCTCTATCAGCTCAGCGGGGA
CCCCCTCGTTCTGCTCGACCTGCGGCAGTACTTGGAAATTCACCTACTTGGATGACCATGGACCAC
CTCCTAGTAAGGTACTACCTTTCCCAAGCCAGGTGGTGTACAACAGGGTAGGCAAGTGTGGGAGCCGTAC
TGTGGTCTTGCTTCTGAGAATCTTGTGGAGAAGCACGGATTTAATTTGGTCACATCAGACATTCACAAC
AAAACCAGGCTTACTAAAAATGAACAAATGGAAGTGAATAAAAATATAAGTACTGCCGAACAACCCATT
TATTCACCTCGACATGTTCACTTCTCAACTTCTCAAGGTTTGGAGGAGACCAGCCTGTCTACATCAACAT
CATTAGAGACCCCGTCAACCGGTTCTTATCCAATATTTTTCCGTCGCTTTGGAGACTGGAGAGGGGAA
CAAAATCATATGATCCGCACCCCGCAGATGAGGCAGGAGGAGCGCTACCTGGATATCAATGAGTGTATTC
TTGAAAATATCCCGAGTGCTCCAACCCAGGTTATTTTACATCATTCCGTACTTTTGTGGACAGCATCC
CAGATGCAGGGAGCCTGGTGAATGGGCCCTTGAGAGAGCAAAGCTGAACGTGAATGAAAATTCCTGCTC
GTGGGGATTCTGAAGAGTTGGAAGATGTGCTGCTGTTACTGAAAGATTTTTACCTCATTACTTCAAGG
GGGTGCTCAGTATCTACAAAGACCCAGAGCACAGGAAGCTTGGAAACATGACTGTGACGGTGAAGAAGAC
TGTCCTCTCCTGAGGCTGTGCAGATCCTCTACCAGCGGATGAGATACGAGTACGAGTTTTACCACTAC
GTCAAAGAGCAGTTCACCTGCTGAAGCGCAAGTTGGACTTAAGTCTCACGTGACGAAGCCCCCTGA
GGCCACACTTCTTTATCCCACTCCACTGGAAACCGAGGACCAATCGACGATGAAGAACAGGATGATGA
AAAGTGGCTGGAAGATATTTATAAGAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210799 representing NM_005715
 Red=Cloning site Green=Tags(s)

MKKKQQHPGGADPWPHGAPMGGAPPGLGSWKRRVLLPFLRFSLRDYGFCMATLLVFCLGSLLYQLSGG
 PPRFLLDLRQYLGNSTYLDHGGPPPSKVLFPFSQVYVNRVKGCSRTVVLLLRLSEKHGFNLVTSDIHN
 KTRLTKNEQMELIKNISTAEQPYLFRHVHFLNFSRFGGDQPVIINIRDPVNRFLSNYFFRRFGDWRGE
 QNHMIRTPSMRQEERYLDINECILENYPECSNPRLFYIIPYFCGQHPRCREPGEWALERAKLNVNENFLL
 VGILEELEDVLLLLERFLPHYFKVLSIYKDPEHRKLGNMVTVKKTVPSPPEAVQILYQRMRYEYEFYHY
 VKEQFHLLKRKFKGLKSHVSKPPLRPHFFIPTPLETEEPIIDDEEQDDEKWLEDIYKR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005715

ORF Size: 1218 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_005715.3](#)

RefSeq Size: 4196 bp

RefSeq ORF: 1221 bp

Locus ID: 10090

UniProt ID: [Q9Y2C2](#)

Cytogenetics: 6q25.1

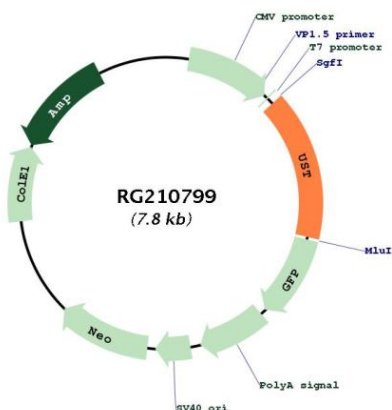
Domains: HS2ST

Protein Families: Transmembrane

Protein Pathways: Chondroitin sulfate biosynthesis

Gene Summary: Uronyl 2-sulfotransferase transfers sulfate to the 2-position of uronyl residues, such as iduronyl residues in dermatan sulfate and glucuronyl residues in chondroitin sulfate (Kobayashi et al., 1999 [PubMed 10187838]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RG210799