

Product datasheet for **SC126598**

uronyl 2 sulfotransferase (UST) (NM_005715) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	uronyl 2 sulfotransferase (UST) (NM_005715) Human Untagged Clone
Tag:	Tag Free
Symbol:	uronyl 2 sulfotransferase
Synonyms:	2OST
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_005715 edited
 ATGAAGAAGAAGCAGCAGCATCCCGGCGCGCGGATCCCTGGCCCCATGGGGCCCT
 ATGGGGGCGCCCTCCGGCCTGGGAGCTGGAAGCGTGGGTCGCCCTGCTGCCTTC
 CTGCGCTTCTCCCTCCGGACTACGGCTTCTGCATGGCCACCCTGCTGGTCTTCTGCCTG
 GGCTCCCTCCTCTATCAGCTCAGCGGGGACCCCTCGCTTCTGCTCGACCTGCGGCAG
 TACTTGGGAAATCCACTACTTGGATGACCATGGACCACCTCCTAGTAAGGTACTACCT
 TTCCCAAGCCAGGTGGTGTACAACAGGGTAGGCAAGTGTGGGAGCCGACTGTGGTCTTG
 CTTCTGAGAATCTGTGCGGAGAAGCACGGATTTAATTTGGTCACATCAGACATTCACAAC
 AAAACCAGGCTTACTAAAAATGAACAAATGGAAGTATTAAAAATAAGTACTGCCGAA
 CAACCCTATTTATCACTCGACATGTTCAATTCCTCAACTTCTCAAGTTTGGAGGAGAC
 CAGCCTGTCTACATCAACATCATTAGAGACCCCGTCAACCGTTCTTATCCAACATTTTT
 TTCCGTCGCTTTGGAGACTGGAGAGGGGAACAAAATCACATGATCCGCACCCCCAGCATG
 AGGCAGGAGGAGCGCTACCTGGATATCAATGAGTGTATTCTTGAAAATATCCCGAGTGC
 TCCAACCCAGGTTATTTTACATCATTCCGTACTTTTGTGGACAGCATCCCAGATGCAGG
 GAGCCTGGTGAATGGGCCCTTGAGAGAGCAAAGCTGAACGTGAATGAAAACCTTCCTGCTC
 GTGGGGATTCTTGAAGAGTTGGAAGATGTGCTGCTGTTACTGGAAAGATTTTACCTCAT
 TACTTCAAGGGCGTGTGCTCAGTATCTACAAAGACCCAGAGCACAGGAAGCTTGAAACATG
 ACTGTGACGGTGAAGAAGACTGTCCCTCTCCTGAGGCTGTGCAGATCCTTACCAGCGG
 ATGAGATACGAGTACGAGTTTTACCCTACGTCAAAGAGCAGTTCCACCTGCTGAAGCGC
 AAGTTTGGACTTAAGTCTCACGTCAAGCAAGCCCCCTGAGGCCACACTTCTTTATCCCA
 ACTCCAAGTGAACCCGAGGAGCCAAATCGACGATGAAGAACAGGATGATGAAAAGTGGCTG
 GAAGATATTTATAAGAGGTGA



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_005715 unedited CGGCCGCAATTCGGCACGAGCGGGCGGGCGCCCGTACAGGGCAGCGCCCGAACCGG GGCCGGACACCTCGGCCGCTCGGGCCGCGGGCGGGGACCATGCCGAAGAAAGTCTCCT GAGCCCGCAACTTCGGCCCTCCCCGCCCCACCCGGCTGCCCTCCGCGGGCCCTCCC CATGTGCAGCCGCCAGCCGGGCTCTCTCCTCGCGCGGATGGGTGACCTTTTCCTGGC ACGGGCAGGCTGTGGGAGGCAGCGGAGCAGGCGATGAAGAAGAAGCAGCAGCATCCCGGC GGCGCGCGGATCCCTGGCCCATGGGGCCCTATGGGGGGCGCCCTCCGGGCCTGGGC AGCTGGAAGCGTCGGGTGCCCTGCTGCCCTTTCCTGCGCTTCTCCCTCCGGGACTACGGC TTCTGCATGGCCACCCTGCTGGTCTTCTGCCTGGGCTCCCTCCTATCAGCTCAGCGGG GGACCCCTCGTTCCTGCTCGACCTGCGGCAGTACTTGGGAAATTCCACTTACTTGGAT GACCATGGACCACCTCCTAGTAAGGTAACCTTTCCCAAGCCAGGTGGTGTACAACAGG GTAGGCAAGTGTGGGAGCCGTAAGTGTGGTCTTGTCTGAGAATCTTGTGCGGAGAAGCAC GGATTTAATTTGGTCACATCAGACATTCACAACAAAACAGGCTTACTAAAAATGAACAA ATGGAAGTATTAN</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_005715 unedited CCTGATGGCTGCAGGCCCTTTTATTTCCGCTGTCAACAGGCAGGTAATAAATTGTCAACTT ATTTATATTTATTTATTTATATGGGTGATGAATAAGTTAAGGAACGCTTCATCTCAAACA CAGATTGCTTTTTATTTAGCTAAGTTAATGTTTCAGTTCCATATATTTTTGAATTTCC ATCAACGTCAAACACCATTTTTTCTTTCTTAAAAAAGATTTACAAGCAC TTTTACGGCGCTCAAGAAAGTAGGCTGAAGTTCATAATAAATTTTCTTTAAAAA CATCCATCAGACAAAAATAAATCATTTAATTAACCTTCTGAGTAATAAACCTT GGATGTGCTGAAAGTTATAATAAATAACACAGTCAAAGATCAACTAGCTTAAAGGTA TTTCTTAAATTAACATATGTAATAATGTACAATATGTTTCATGAATTACAACTGTTGGGC CCAGGGCCAAAAAACGTTTCGATGCTTCGCCAAATAAACTGAGGTCCCTGACTTTTA CGACCTACAGGGTCGTCGCTGGGACCACAATAACATTAAGGGGCTGCACGTAAATCTC CCCCCACCCTTCTTTGGTGAAGTTCTCATTGATCCCTGTTTAAAAACAAACCGCTCTT TTTACCACTCCTGGTACAATGTCCCTCCACATCCTTTTCAGTCAAAGGATCGCAGCT CTTCTACCCACCCACTTCTCCCCCGCTCCCCACCCAGCCGTAGCCCTCCCATAC TCCCCCACCCTCCTTCCACATTGCCGAGCATTGCTCTCTGCGGCTCCCTTATCAC TCCCGCTTCTCGGCCATCTCCCTAATATGCACCTCCTTGGGCTCCACCGCTCACCC TCCCGCCATCCCGTCTCTGAACCTTACCTTGACTCACCTCCTTCCGCTTCTCTTAAC GATTATGTTTCAGCGAGGGCGGGTCCGTGTGGCAGCN</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_005715
Insert Size:	4500 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_005715.1](#), [NP_005706.1](#)

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]