

## Product datasheet for SC106349

### UXS 1 (UXS1) (BC009819) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	UXS 1 (UXS1) (BC009819) Human Untagged Clone
Tag:	Tag Free
Symbol:	UXS 1
Synonyms:	SDR6E1; UGD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC106349 sequence for BC009819 edited (data generated by NextGen Sequencing)

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ATGGTGAGCAAGCGCTGCTGCGCCTCGTGTCTGCCGTCAACCGCAGGAGATGAAGCTG
CTGCTGGGCATCGCCTTCTGCTGGCCTACGTCGCCTCTGTTTGGGGCAACTTCGTTAATATG
AGGTCTATCCAGGAAAATGGTGAATAAAAATTGAAAGCAAGATTGAAGAGATGGTTGAA
CCACTAAGAGAGAAAATCAGAGATTTAGAAAAAGCTTTACCCAGAAATACCCACAGTA
AAGTTTTTATCAGAAAAGGATCGGAAAAGAATTTTGATAACAGGAGGCGCAGGGTTCGTG
GGCTCCCATCTAACTGACAACTCATGATGGACGGCCACGAGGTGACCGTGGTGGACAAT
TTCTTCACGGGCAGGAAGAGAAACGTGGAGCACTGGATCGGACATGAGAATTTCGAGTTG
ATTAACCACGACGTGGTGGAGCCCTCTACATCGAGTTGACCAGATATACCATCTGGCA
TCTCCAGCCTCCCCTCCAACTACATGTATAATCCTATCAAGACATTAAGACCAATACG
ATTGGGACATTAACATGTTGGGCTGGCAAAACGAGTCGGTGCCCGTCTGCTCCTGGCC
TCCACATCGGAGGTGTATGGAGATCCTGAAGTCCACCCTCAAAGTGAGGATTAAGGGGC
CACGTGAATCCAATAGGACCTCGGGCCTGCTACGATGAAGGCAAACGTGTTGCAGAGACC
ATGTGCTATGCCTACATGAAGCAGGAAGGCGTGGAAAGTGCAGTGGCCAGAACTTCAAC
ACCTTTGGGCCACGCATGCACATGAACGATGGGCGAGTAGTCAGCAACTTCATCTGCAG
GCGCTCCAGGGGGAGCCACTCACGGTATACGGATCCGGTCTCAGACAAGGGCGTCCAG
TACGTCAGCGATCTAGTGAATGGCCTCGTGGCTCTCATGAACAGCAACGTCAGCAGCCCG
GTCAACCTGGGGAACCCAGAAGAACACACAATCCTAGAATTTGCTCAGTTAATAAAAAC
CTTGTTGGTAGCGGAAGTGAATTCAGTTTCTCTCCGAAGCCAGGATGACCCACAGAAA
AGAAAACCAGACATCAAAAAAGCAAAGCTGATGCTGGGGTGGGAGCCCGTGGTCCCCTG
GAGGAAGGTTTAAACAAAGCAATTCACACTTCCGTAAGAAGTACGAGTACCAGGCAAT
AATCAGTACATCCCCAAACCAAAGCCTGCCAGAAATAAGAAAGGACGGACTCGCCACAGC
TGA

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Clone variation with respect to BC009819.2



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for BC009819 unedited</p> <pre>TCAGGATTTTGTACTACGATTCACTATAGGNNCGGCCGCAATTCGGCACGAGGCGGG CCCCCGCGCGGCAGGGCCCTGGACCCGCGCGGCTCCCGGGGATGGTGAGCAAGGCCTGC TGCGCCTCGTGTCTGCCGTCAACCGCAGGAGGATGAAGCTGCTGCTGGGCATCGCCTTG TGGCCTACGTCGCTCTGTTTGGGGCACTTCGTTAATATGAGGTCTATCCAGGAAAATG GTGAATTAATAAATGAAAGCAAGATTGAAGAGATGGTTGAACCACTAAGAGAGAAAATCA GAGATTTAGAAAAAAGCTTTACCCAGAAAATACCCACCAGTAAAGTTTTTATCAGAAAAGG ATCGGAAAAGAATTTTGATAACAGGAGGCGCAGGGTTCGTGGGCTCCCATCTAACTGACA AACTCATGATGGACGCCACGAGGTGACCGTGGTGGACAATTTCTTACGGGCAGGAAGA GAAACGTGGAGCACTGGATCGGACATGAGAACTTCGAGTTGATTAACCACGACGTGGTGG AGCCCCTCTACATCGAGGTTGACCAGATATACCATCTGGCATCTCCAGCCTCCCTCCAA ACTACATGTATAATCCTATCAAGACATTAAGACCAATACGATTGGGACATTAACATGT TGGGGCTGGCAAACGAGTCGGTGCCCGTCTGCTCCTGGCCTCCACATCGGAGGTGATG GAGATCCTGCAGTCCACCCTCAAAGTGAGGATTACTGTNGCCACGTGAATCCAATAGGAC CCTGGGCTGCTACCATGAAAGCAAACGTGTTGCANAAACCATGTGCTATGCCTACATGA CCCAAGAACGCGTGGAAGTGCCAGTGCCANAATCTTCAACACCTTTGGCCACGCTGCA CATGACCGATGGCGAGTAGTCACAACCTCTTCTGCAGCGCTCCAGGGAAGCACTACGT</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for BC009819 unedited</p> <pre>NACTATGTACGCGCCGCTTTCTANAGTCGAGTTATATCTTTTTTTTTTTTTTTCATAGTA TAACGACTCATTATTAAGTACCCACTTTTATAAATAAAATCGGCATTTTTTGTCCCGCT TAATGTTCTTTTCAGTTCACAAAGAAACCAGTAAATAAAACTGTCAACGACAGTCACA ACATATGCTCTCACAGCAAGATAAAAAAAGTAAATACGCAGAGATGCATCTACGCTA TTTTACATAAAAAAGAGAGATTCAAAAAGTGCAAGGCAAAATCTGCAGTTTTTTGAGGGGA GCTTTTAGGCACATCCATTTTATTAAAGCAAGCTTCAGAATGAAATTCAGTTTGTCTT CATGACACCTGTTAAAGTCTTTCTTTAAACGACAACAAAAAAGCCAAAAATACATCCC ATCAAGGTACAATGGTAGTCTTGTGTCCTAAAAGTGAGGAGTTCAGCTGTGGCGAGTCC GTCCTTTCTTTATTCTGGCAGGCTTTGGTTTGGGGATGTACTGATTATTTGCCTGGTACT CGAGTTCTTTACGGAAGTAGTGAATTGCTTTGTTAAACCTTCTCCAGCGGGACCACGG GCTCCCACCCAGCATCAGCTTTGCTTTTTTGTGTCTGGGTTCTTTTCTGTGGGTCAT CCTGGGCTTCGGAGAGAACTGAATTTCACTTCCGCTACCAACAAGTTTTTAATTAAC GAGCAAATTTCTAGGGATGTGTGTTCTTCTGGGTTCCCCAGGTTGACCGGGCTGCTGACGT TGCTGTTTCAAGACGAGGCCATTCACTAGATCGCTGACGTACTGGAACGCCCTGT CTGAAACCGGATCGTATACCGTGAGTGCTCCCTGAAGCGCTGCAGGATGAAATGCTG CTACTCCCATCGTAATGTGCAGCGCGCCAAAGG</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	BC009819
<b>Insert Size:</b>	2000 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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:** [BC009819.2](#), [AAH09819.2](#)

**RefSeq Size:** 2031 bp

**RefSeq ORF:** 1263 bp

**Locus ID:** 80146

**Cytogenetics:** 2q12.2

**Domains:** Epimerase

**Protein Families:** Transmembrane

**Protein Pathways:** Amino sugar and nucleotide sugar metabolism, Metabolic pathways, Starch and sucrose metabolism

**Gene Summary:** This gene encodes an enzyme found in the perinuclear Golgi which catalyzes the synthesis of UDP-xylose used in glycosaminoglycan (GAG) synthesis on proteoglycans. The GAG chains are covalently attached to proteoglycans which participate in signaling pathways during development. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2014]