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# Product datasheet for SC110868

## UXS 1 (UXS1) (NM_025076) Human Untagged Clone

### Product data:

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|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | UXS 1 (UXS1) (NM_025076) Human Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | UXS 1 |
| **Synonyms:** | SDR6E1; UGD |
| **Mammalian Cell Selection:** | None |
| **Vector:** | pCMV6-XL5 |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

**Fully Sequenced ORF:**

>OriGene ORF within SC110868 sequence for NM_025076 edited (data generated by NextGen Sequencing)

ATGGTGAGCAAGGCGCTGCTGCGCCTCGTGTCTGCCGTCAACCGCAGGAGGATGAAGCTG
CTGCTGGGCATCGCCTTGCTGGCCTACGTCGCCTCTGTTTGGGGCAACTTCGTTAATATG
AGGTCTATCCAGGAAAATGGTGAACTAAAAATTGAAAGCAAGATTGAAGAGATGGTTGAA
CCACTAAGAGAGAAAATCAGAGATTTAGAAAAAAGCTTTACCCAGAAATACCCACCAGTA
AAGTTTTTATCAGAAAAGGATCGGAAAAGAATTTTGATAACAGGAGGCGCAGGGTTCGTG
GGCTCCCATCTAACTGACAAACTCATGATGGACGGCCACGAGGTGACCGTGGTGGACAAT
TTCTTCACGGGCAGGAAGAGAAACGTGGAGCACTGGATCGGACATGAGAACTTCGAGTTG
ATTAACCACGACGTGGTGGAGCCCCTCTACATCGAGGTTGACCAGATATACCATCTGGCA
TCTCCAGCCTCCCCTCCAAACTACATGTATAATCCTATCAAGACATTAAAGACCAATACG
ATTGGGACATTAAACATGTTGGGGCTGGCAAAACGAGTCGGTGCCCGTCTGCTCCTGGCC
TCCACATCGGAGGTGTATGGAGATCCTGAAGTCCACCCTCAAAGTGAGGATTACTGGGGC
CACGTGAATCCAATAGGACCTCGGGCCTGCTACGATGAAGGCAAACGTGTTGCAGAGACC
ATGTGCTATGCCTACATGAAGCAGGAAGGCGTGGAAGTGCGAGTGGCCAGAATCTTCAAC
ACCTTTGGGCCACGCATGCACATGAACGATGGGCGAGTAGTCAGCAACTTCATCCTGCAG
GCGCTCCAGGGGGAGCCACTCACGGTATACGGATCCGGGTCTCAGACAAGGGCGTTCCAG
TACGTCAGCGATCTAGTGAATGGCCTCGTGGCTCTCATGAACAGCAACGTCAGCAGCCCG
GTCAACCTGGGGAACCCAGAAGAACACACAATCCTAGAATTTGCTCAGTTAATTAAAAAC
CTTGTTGGTAGCGGAAGTGAAATTCAGTTTCTCTCCGAAGCCCAGGATGACCCACAGAAA
AGAAAACCAGACATCAAAAAAGCAAAGCTGATGCTGGGGTGGGAGCCCGTGGTCCCGCTG
GAGGAAGGTTTAAACAAAGCAATTCACTACTTCCGTAAAGAACTCGAGTACCAGGCAAAT
AATCAGTACATCCCCAAACCAAAGCCTGCCAGAATAAAGAAAGGACGGACTCGCCACAGC
TGA

Clone variation with respect to NM_025076.3



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM_025076 unedited
ATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGTCGCCTTGCTGGCCTACGTC
GCCTCTGTTTGGGGCAACTTCGTTAATATGAGGTCTATCCAGGAAAATGGTGAACTAAAA
ATTGAAAGCAAGATTGAAGAGATGGTTGAACCACTAAGAGAGAAAATCAGAGATTTAGAA
AAAAGCTTTACCCAGAAATACCCACCAGTAAAGTTTTTATCAGAAAAGGATCGGAAAAGA
ATTTTGATAACAGGAGGCGCAGGGTTCGTGGGCTCCCATCTAACTGACAAACTCATGATG
GACGGCCACGAGGTGACCGTGGTGGACAATTTCTTCACGGGCAGGAAGAGAAACGTGGAG
CACTGGATCGGACATGAGAACTTCGAGTTGATTAACCACGACGTGGTGGAGCCCCTCTAC
ATCGAGGTTGACCAGATATACCATCTGGCATCTCCAGCCTCCCCTCCAAACTACATGTAT
AATCCTATCAAGACATTAAAGACCAATACGATTGGGACATTAAACATGTTGGGGCTGGCA
AAACGAGTCGGTGCCCGTCTGCTCCTGGCCTCCACATCGGAGGTGTATGGAGATCCTGAA
GTCCACCCTCAAAGTGAGGATTACTGGGGCCACGTGAATCCAATAGGACCTCGGGCCTGC
TACGATGAAGGCATACGTGTTGCAGAGACCATGTGCTATGCCTACATGAAGCAGGAAGGC
GTGGAAGTGCGAGTGGCCAGAATCTTCACACCTTTGGGCCACGCATGCACATGATCGATG
GGCGAGTAGTCAGCAACTTCATCCTGCAGGGCGCTCAGGGGGAGCCACTCACGTATACGG
ATCCGGGTCTCAGAAAGGGCGTTCCAGTACGTCAGCGATCTAGTGAATGGCCTCGTGGCT
CTCATGAACAGAACGTCAGCAGCCGGGTCATCTGGGGAAACCANATGACCACATNCTAGA
TTT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM_025076 unedited
TCTTGGCCGCGGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTGAGTTTCAATAT
TTTATTAAAATAGCATATTTAACCATGGTTAACCAAGAATATGTTAACTTTGTGCCCCCC
AACCTGCCCCCGCCCCAGATACGCAGCAAAACACAGTAGTGATTTCAAATATCCTTGATC
ATGACCAACAGGAATATTTCAAAGTCAAGTTTGCAACTCAAAAGTAGACCTTGGAAAAAC
TCTGAATTAAAAGAGAAACATAAAGCTCTCACACAGAATTCTTTTATCTGCCCTAAAATC
AATGCCGGCGCACCACCACCTGACAATACTGCTAGGATTTTTCTTTATGCATAGTATAAC
GACTCATTTATTAAGTACCCACTTTTATAAATAAAATCGGCATTTTTTGTCCCGCTTAAT
GTTCCTTTTCAGCTTCACAAAGAAACCAGTAAATAAAACTGTCAACGACAGTCACAACAT
ATGCTCTCACAGCAAGATAAAAAAACTTGAAAATACGCAGAGATGCATCTACGCTATTTT
ACATAAAAAGAGAGATTCAAAAAGTGCAAGGCAAAATCTGCAGTTTTTTGAGGGGAGCTT
TTAGGCACATCCATTTCATTAAAAGCAGCTTCAGAATGAANATCCAGTTTGTTCTTCATG
ACACCTGGTNAAGTCTTTCTTTTAACGACNNACAAAAAAAGCCAAAAATACATCCCATCA
AGTGTACAATGGGTAGTCTGTGTCCTAAAGTGAGGGAGTCAGCTGTGGCGAGTCCGTTCT
TTCTTTATCTGGGCAGCTTTGGTTNGGGGATGNACTGNATATTGGCCTGGACTCGAGTTC
TTTACGGAGTAGTGAATGCTTTGTTTAAACTTNCTCCACGGGACACCGGCTCCCACCCAG
CATCAGCTTGGCTTTTTGAAGNCGGGNTTCTTCCTGGGGGCATTCTGGCTTCGAAAGAAC
TGATTTACTTCC

**Restriction Sites:** NotI-NotI

**ACCN:** NM_025076

**Insert Size:** 2000 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).

**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).

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|---|---|
| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_025076.1, NP_079352.1 |
| **RefSeq Size:** | 1971 bp |
| **RefSeq ORF:** | 759 bp |
| **Locus ID:** | 80146 |
| **UniProt ID:** | Q8NBZ7 |
| **Cytogenetics:** | 2q12.2 |
| **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]<br>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 5' coding region compared to variant 1. The resulting protein (isoform 2) is shorter compared to isoform 1.<br>Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments. |