

Product datasheet for SC317676

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: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Fully Sequenced ORF: | >SC317676 representing NM_025076. Blue=Insert sequence Red=Cloning site Green=Tag(s) |

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GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGTGAGCAAGGCGCTGCTGCGCTCGTGTCTGCCGTCAACCGCAGGAGGATGAAGCTGCTGCTGGGC
ATCGCCTTGCTGGCCTACGTGCGCTCTGTTGGGGCAACTTCGTTAATATGAGGTCTATCCAGGAAAAT
GGTGAATAAAAATTGAAAGCAAGATTGAAGAGATGGTTGAACCACTAAGAGAGAAAATCAGAGATTTA
GAAAAAAGCTTTACCCAGAAATACCCACCAGTAAAGTTTTATCAGAAAAGGATCGGAAAAGAATTTTG
ATAACAGGAGGCGCAGGGTTCGTGGGCTCCCATCTAACTGACAACTCATGATGGACGGCCACGAGGTG
ACCGTGGTGGACAATTTCTTACGGGCAGGAAGAGAAACGTGGAGCACTGGATCGGACATGAGAATTC
GAGTTGATTAACCACGAGTGGTGGAGCCCTCTACATCGAGGTTGACCAGATATACCATCTGGCATCT
CCAGCCTCCCCTCAAACCTACATGTATAATCCTATCAAGACATTAAGACCAATACGATTGGGACATTA
AACATGTTGGGGCTGGCAAAACGAGTCGGTGCCCGTCTGCTCCTGGCCTCCACATCGGAGGTGTATGGA
GATCCTGAAGTCCACCCTCAAAGTGAGGATTACTGGGGCCACGTGAATCCAATAGGACCTCGGGCCTGC
TACGATGAAGGCAACGTTGTCAGAGACCATGTGCTATGCCTACATGAAGCAGGAAGGCGTGAAGTG
CGAGTGGCCAGAATCTTCAACACCTTTGGGCCACGCATGCACATGAACGATGGGCGAGTAGTCAGCAAC
TTCATCCTGCAGGCGCTCCAGGGGAGCCACTCACGGTATACGGATCCGGGTCTCAGACAAGGGCGTTC
CAGTACGTCAGCGATCTAGTGAATGGCCTCGTGGCTCTCATGAACAGCAACGTCAGCAGCCGGTCAAC
CTGGGGAACCCAGAAGAACACACAATCCTAGAATTTGCTCAGTTAATTAACAACTTGTGGTAGCGGA
AGTGAAATTCAGTTTCTCTCCGAAGCCAGGATGACCCACAGAAAAGAAAACAGACATCAAAAAAGCA
AAGCTGATGCTGGGGTGGGAGCCGTGGTCCCCTGGAGGAAGGTTAAACAAAGCAATTCCTACTTTC
CGTAAAGAACTCGAGTACCAGGCAATAATCAGTACATCCCCAAACAAAGCCTGCCAGAATAAAGAAA
GGACGGACTCGCCACAGCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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| Restriction Sites: | Sgfl-Mlul |
| ACCN: | NM_025076 |
| Insert Size: | 1263 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: | <ol style="list-style-type: none">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: | <u>NM_025076.4</u> |
| RefSeq Size: | 2102 bp |
| RefSeq ORF: | 1263 bp |
| Locus ID: | 80146 |
| UniProt ID: | <u>Q8NBZ7</u> |
| Cytogenetics: | 2q12.2 |
| Protein Families: | Transmembrane |
| Protein Pathways: | Amino sugar and nucleotide sugar metabolism, Metabolic pathways, Starch and sucrose metabolism |
| MW: | 47.6 kDa |

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]

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.

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.