

## Product datasheet for **RC203354**

### UXS 1 (UXS1) (NM\_025076) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	UXS 1 (UXS1) (NM_025076) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	UXS 1
Synonyms:	SDR6E1; UGD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203354 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGAGCAAGGCGCTGCTGCGCCTCGTGTCTGCCGTCAACCGCAGGAGGATGAAGCTGCTGCTGGGCA  
TCGCCTTGCTGGCTACGTCGCCTCTGTTGGGGCAACTCGTTAATATGAGGTCTATCCAGGAAAATGG  
TGAAGTAAAAATTGAAAGCAAGATTGAAGAGATGGTTGAACCACTAAGAGAGAAAATCAGAGATTTAGAA  
AAAAGCTTACCAGAAAATCCACCAGTAAAGTTTTTATCAGAAAAGGATCGGAAAAGAATTTTGATAA  
CAGGAGGCGCAGGGTTCGTGGGCTCCCATCTAACTGACAACTCATGATGGACGGCCACGAGGTGACCGT  
GGTGGACAATTTCTTACGGGCAGGAAGAGAAAAGTGGAGCACTGGATCGGACATGAGAATTCGAGTTG  
ATTAACACGACGTGGTGGAGCCCTCTACATCGAGTTGACCAGATATACCATCTGGCATCTCCAGCCT  
CCCCTCCAAACTACATGTATAATCCTATCAAGACATTAAGACCAATACGATTGGGACATTAACATGTT  
GGGGCTGGCAAAACGAGTCGGTGGCCGCTGCTCCTGGCCTCCACATCGGAGGTGTATGGAGATCCTGAA  
GTCCACCCTCAAAGTGAGGATTACTGGGGCCACGTGAATCCAATAGGACCTCGGGCTGCTACGATGAAG  
GCAAACGTGTTGCAGAGACCATGTGCTATGCCTACATGAAGCAGGAAGGCGTGAAGTGGAGTGGCCAG  
AATCTTCAACACCTTTGGGCCACGATGCATGAACGATGGGCGAGTAGTCAGCAACTTCATCCTGCAG  
CGCTCCAGGGGAGCCACTCACGGTATACGGATCCGGTCTCAGACAAGGGCGTCCAGTACGTCAGCG  
ATCTAGTGAATGGCCTCGTGGCTCATGAACAGCAACGTCAGCAGCCCGTCAACCTGGGGAACCCAGA  
AGAACACACAATCCTAGAAATTTGCTCAGTTAATTAACAACTTGTGGTAGCGGAAGTGAATTCAGTTT  
CTCTCCGAAGCCAGGATGACCCACAGAAAAGAAAACCAGACATCAAAAAGCAAAGCTGATGCTGGGGT  
GGGAGCCCGTGGTCCCGCTGGAGGAAGTTTAAACAAAGCAATTCACTACTTCCGTAAGAAGTAACTCGAGTA  
CCAGGCAATAATCAGTACATCCCAACCAAGCCTGCCAGAATAAAGAAAGGACGGACTCGCCACAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC203354 protein sequence  
Red=Cloning site Green=Tags(s)

MVSKALLRLVSAVNRRRMKLLGLIALLAYVASVWGNFVNMRSIQENGELKIESKIEEMVEPLREKIRDLE  
 KSFTQKYPPVKFLSEKDRKRILITGGAGFVGSHLTDKLMMDGHEVTVDNFFTGRKRNVHEHWIGHENFEL  
 INHDVVEPLYIEVDQIYHLASASPNNYMNPIKTLKTNITIGTLNMLGLAKRVGARLLLASTSEVYGDPE  
 VHPQSEDYWGHVNIIPRACYDEGKRVAETMCYAYMKQEGVEVVARIFNTFGPRMNMNDGRVVSNFILQ  
 ALQGEPLTVYGGSGQTRAFQYVSDLVNGLVALMNSNVSSPVNLGNPEEHTILEFAQLIKNLVGGSEIQF  
 LSEAQDDPQKRKPDIKKAKLMLGWPEVVPLEEGLNKAIHYFRKELEYQANNQYIPKPKPARIKKGRTRHS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6424\\_c07.zip](https://cdn.origene.com/chromatograms/mk6424_c07.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_025076

**ORF Size:** 1260 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\\_025076.5](#)

**RefSeq Size:** 2102 bp

**RefSeq ORF:** 1263 bp

**Locus ID:** 80146

**UniProt ID:** [Q8NBZ7](#)

**Cytogenetics:** 2q12.2

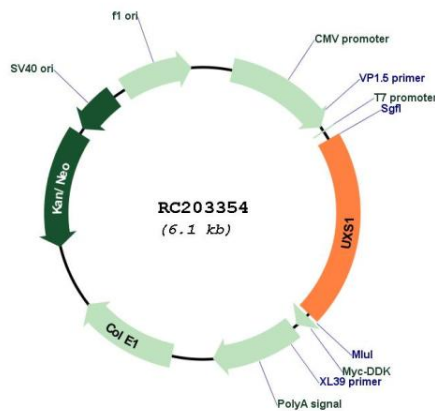
**Protein Families:** Transmembrane

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

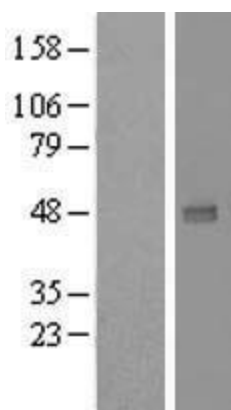
**MW:** 47.6 kDa

**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]

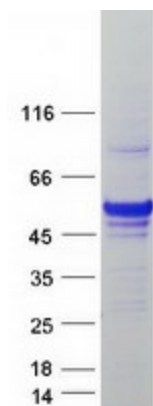
**Product images:**



Circular map for RC203354



Western blot validation of overexpression lysate (Cat# [LY410902]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203354 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified UXS1 protein (Cat# [TP303354]). The protein was produced from HEK293T cells transfected with UXS1 cDNA clone (Cat# RC203354) using MegaTran 2.0 (Cat# [TT210002]).