

## Product datasheet for **RC233551**

### UXS 1 (UXS1) (NM\_001253876) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** UXS 1 (UXS1) (NM\_001253876) 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:** >RC233551 representing NM\_001253876  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTATAATCCTATCAAGACATTAAGACCAATACGATTGGGACATTAACATGTTGGGGCTGGCAAAAC  
GAGTCGGTGCCCGTCTGCTCCTGGCCTCCACATCGGAGGTGTATGGAGATCCTGAAGTCCACCCTCAAAG  
TGAGGATTACTGGGGCCACGTGAATCCAATAGGACCTCGGGCCTGCTACGATGAAGGCAAACGTGTTGCA  
GAGACCATGTGCTATGCCTACATGAAGCAGGAAGGCGTGAAGTGCAGTGGCCAGAATCTTCAACACCT  
TTGGGCCACGCATGCACATGAACGATGGGCGAGTAGTCAGCAACTTCATCCTGCAGGCGCTCCAGGGGGA  
GCCACTCACGGTATACGGATCCGGGTCTCAGACAAGGGCGTTCAGTACGTCAGCGATCTAGTGAATGGC  
CTCGTGGCTCTCATGAACAGCAACGTCAGCAGCCCGGTCAACCTGGGGAACCCAGAAGAACACACATCC  
TAGAATTTGCTCAGTTAATTA AAAACCTTGTGGTAGCGGAAGTAAAATTCAGTTTCTCTCCGAAGCCCA  
GGATGACCACAGAAAAGAAAACAGACATCAAAAAGCAAAGCTGATGCTGGGGTGGGAGCCCGTGGTC  
CCGCTGGAGGAAGGTTTAAACAAAGCAATTCACTACTTCCGTAAGAAGTACGAGTACCAGGCAAATAATC  
AGTACATCCCCAAACAAAGCCTGCCAGAATAAAGAAAGGACGGACTCGCCACAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC233551 representing NM\_001253876  
Red=Cloning site Green=Tags(s)

MYNPIKTLKTNTIGTLNMLGLAKRVGARLLLASTSEVYGDPEVHPQSEDYWGHVNPIGPRACYDEGKRVA  
 ETMCYAYMKQEGVEVRVARIFNTFGPRMHMNDGRVVSNFILQALQGEPLTVYVSGSQTRAFQYVSDLVNG  
 LVALMNSNVSSPVNLGNPEEHTILEFAQLIKNLVSGSSEIQFLSEAQDDPQKRKPDIKKAKLMLGWPEVV  
 PLEEGLNKAIHYFRKELEYQANNQYIPKPKPARIKKGRTRHS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_001253876

**ORF Size:** 756 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\\_001253876.2](#)

**RefSeq Size:** 2254 bp

**RefSeq ORF:** 759 bp

**Locus ID:** 80146

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

**Cytogenetics:** 2q12.2

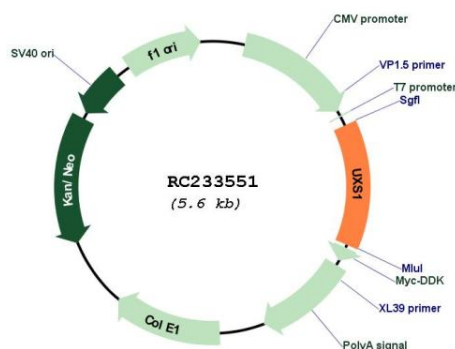
**Protein Families:** Transmembrane

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

**MW:** 28.7 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 RC233551