

## Product datasheet for **RC234060**

### **UXS 1 (UXS1) (NM\_001253875) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	UXS 1 (UXS1) (NM_001253875) 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)



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**ORF Nucleotide Sequence:**

>RC234060 representing NM\_001253875  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGAGCAAGGCGCTGCTGCGCCTCGTGTCTGCCGTCAACCGCAGGAGGATGAAGCTGCTGCTGGGCA  
 TCGCCTTGCTGGCTACGTCGCCTCTGTTTGGGGCAACTTCGTTAATATGAGCTTTCTACTCAACAGGTC  
 TATCCAGGAAAATGGTGAATAAAAATTGAAAGCAAGATTGAAGAGATGGTTGAACCACTAAGAGAGAAA  
 ATCAGAGATTTAGAAAAAGCTTTACCCAGAAATACCCACCAGTAAAGTTTTTATCAGAAAAGGATCGGA  
 AAAGAATTTTGATAACAGGAGGCGCAGGGTTCGTGGGCTCCCATCTAACTGACAACTCATGATGGACGG  
 CCACGAGGTGACCGTGGTGGACAATTTCTCACGGGCAGGAAGAGAAACGTGGAGCACTGGATCGGACAT  
 GAGAACTCGAGTTGATTAACCACGACGTGGTGGAGCCCTCTACATCGAGTTGACCAGATATACCATC  
 TGGCATCTCCAGCTCCCTCCTCAAACTACATGTATAATCTATCAAGACATTAAGACCAATACGATTGG  
 GACATTAACATGTTGGGCTGGCAAAACGAGTCGGTCCCGTCTGCTCCTGGCTCCACATCGGAGGTG  
 TATGGAGATCCTGAAGTCCACCCTCAAAGTGAGGATTACTGGGGCCACGTGAATCCAATAGGACCTCGGG  
 CCTGCTACGATGAAGGCAACGTGTTGCAGAGACCATGTGCTATGCCTACATGAAGCAGGAAGGCGTGGA  
 AGTGCGAGTGGCCAGAATCTTCAACACCTTTGGGCCACGCATGCACATGAACGATGGGCGAGTAGTCAGC  
 AACTTCATCCTGCAGGCGCTCCAGGGGAGCCACTCACGGTATACGGATCCGGGTCTCAGACAAGGGCGT  
 TCCAGTACGTACGCGATCTAGTGAATGGCTCGTGGCTCTCATGAACAGCAACGTGAGCAGCCCGGTCAA  
 CCTGGGAACCCAGAAGAACAACAATCCTAGAATTTGCTCAGTTAATAAAAACCTTGTGGTAGCGGA  
 AGTGAAATTCAGTTTCTCTCCGAAGCCAGGATGACCCACAGAAAAGAAAACAGACATCAAAAAAGCAA  
 AGCTGATGCTGGGTGGGAGCCCGTGGTCCCGTGGAGGAAGTTTAAACAAAGCAATTCCTACTTCCG  
 TAAAGAACTCGAGTACCAGGCAAATAATCAGTACATCCCCAACCAAAAGCCTGCCAGAATAAAGAAAGGA  
 CGGACTCGCCACAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234060 representing NM\_001253875  
 Red=Cloning site Green=Tags(s)

MYSKALLRLVSAVNRRRMKLLLGIALLAYVASVWGNFVNMSFLLNRSIQENGLKIESKIEEMVEPLREK  
 IRDLEKSFTQKYPPVKFLSEKDRKRLITGGAGFVGSHLTDKLMMDGHEVTVDNFFTGRKRNVEHWIGH  
 ENFELINHVVVEPLYIEVDQIYHLASPPNYMYPNIKTLKTNITGLNMLGLAKRVGARLLLSTSEV  
 YGDPEVHPQSEDYWGHVNPIGPRACYDEGKRVAETMCIYMKQEGVEVRVARI FNTFGPRMHMNDGRVVS  
 NFILQALQGEPLTVYGSQSQTRAFQYVSDLVNGLVALMNSNVSSPVNLGNPEEHTILEFAQLIKNLVSGS  
 SEIQFLSEAQDDPQKRKPDIKKAKLMLGWEPVVPLEEGLNKAIIHYFRKELEYQANNQYIPKPKPARIKKG  
 RTRHS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



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

**ACCN:** NM\_001253875

**ORF Size:** 1275 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\\_001253875.2](#)
**RefSeq Size:** 2117 bp

**RefSeq ORF:** 1278 bp

**Locus ID:** 80146

**UniProt ID:** [Q8NBZ7](#)
**Cytogenetics:** 2q12.2

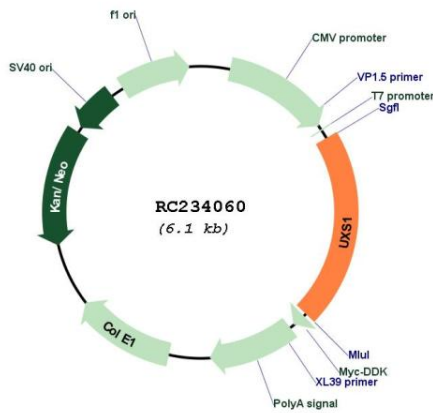
**Protein Families:** Transmembrane

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

**MW:** 48.6 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 RC234060