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# Product datasheet for RG203354

## 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:** | TurboGFP |
| **Symbol:** | UXS 1 |
| **Synonyms:** | SDR6E1; UGD |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-AC-GFP (PS100010) |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

**ORF Nucleotide Sequence:**

>RG203354 representing NM_025076
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGAGCAAGGCGCTGCTGCGCCTCGTGTCTGCCGTCAACCGCAGGAGGATGAAGCTGCTGCTGGGCA
TCGCCTTGCTGGCCTACGTCGCCTCTGTTTGGGGCAACTTCGTTAATATGAGGTCTATCCAGGAAAATGG
TGAACTAAAAATTGAAAGCAAGATTGAAGAGATGGTTGAACCACTAAGAGAGAAAATCAGAGATTTAGAA
AAAAGCTTTACCCAGAAATACCCACCAGTAAAGTTTTTATCAGAAAAGGATCGGAAAAGAATTTTGATAA
CAGGAGGCGCAGGGTTCGTGGGCTCCCATCTAACTGACAAACTCATGATGGACGGCCACGAGGTGACCGT
GGTGGACAATTTCTTCACGGGCAGGAAGAGAAACGTGGAGCACTGGATCGGACATGAGAACTTCGAGTTG
ATTAACCACGACGTGGTGGAGCCCCTCTACATCGAGGTTGACCAGATATACCATCTGGCATCTCCAGCCT
CCCCTCCAAACTACATGTATAATCCTATCAAGACATTAAAGACCAATACGATTGGGACATTAAACATGTT
GGGGCTGGCAAAACGAGTCGGTGCCCGTCTGCTCCTGGCCTCCACATCGGAGGTGTATGGAGATCCTGAA
GTCCACCCTCAAAGTGAGGATTACTGGGGCCACGTGAATCCAATAGGACCTCGGGCCTGCTACGATGAAG
GCAAACGTGTTGCAGAGACCATGTGCTATGCCTACATGAAGCAGGAAGGCGTGGAAGTGCGAGTGGCCAG
AATCTTCAACACCTTTGGGCCACGCATGCACATGAACGATGGGCGAGTAGTCAGCAACTTCATCCTGCAG
GCGCTCCAGGGGGAGCCACTCACGGTATACGGATCCGGGTCTCAGACAAGGGCGTTCCAGTACGTCAGCG
ATCTAGTGAATGGCCTCGTGGCTCTCATGAACAGCAACGTCAGCAGCCCGGTCAACCTGGGGAACCCAGA
AGAACACACAATCCTAGAATTTGCTCAGTTAATTAAAAACCTTGTTGGTAGCGGAAGTGAAATTCAGTTT
CTCTCCGAAGCCCAGGATGACCCACAGAAAAGAAAACCAGACATCAAAAAAGCAAAGCTGATGCTGGGGT
GGGAGCCCGTGGTCCCGCTGGAGGAAGGTTTAAACAAAGCAATTCACTACTTCCGTAAAGAACTCGAGTA
CCAGGCAAATAATCAGTACATCCCCAAACCAAAGCCTGCCAGAATAAAGAAAGGACGGACTCGCCACAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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**Protein Sequence:**

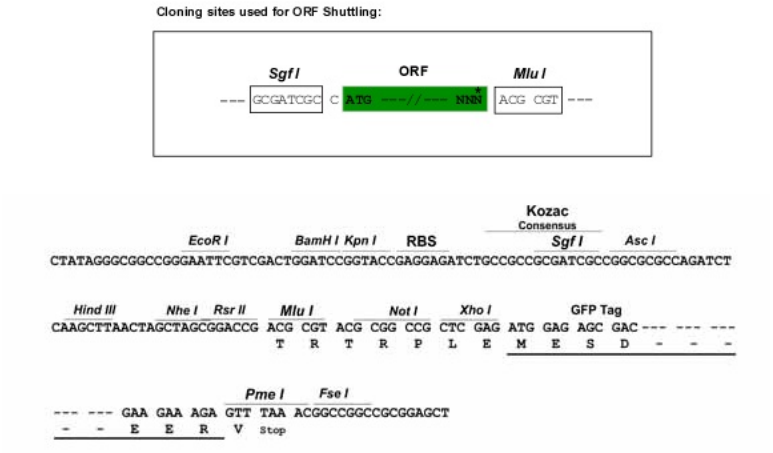
>RG203354 representing NM_025076
Red=Cloning site Green=Tags(s)

MVSKALLRLVSAVNRRRMKLLLGIALLAYVASVWGNFVNMRSIQENGELKIESKIEEMVEPLREKIRDLE
KSFTQKYPPVKFLSEKDRKRILITGGAGFVGSHLTDKLMMDGHEVTVVDNFFTGRKRNVEHWIGHENFEL
INHDVVEPLYIEVDQIYHLASPASPPNYMYNPIKTLKTNTIGTLNMLGLAKRVGARLLLASTSEVYGDPE
VHPQSEDYWGHVNPIGPRACYDEGKRVAETMCYAYMKQEGVEVRVARIFNTFGPRMHMNDGRVVSNFILQ
ALQGEPLTVYGSGSQTRAFQYVSDLVNGLVALMNSNVSSPVNLGNPEEHTILEFAQLIKNLVGSGSEIQF
LSEAQDDPQKRKPDIKKAKLMLGWEPVVPLEEGLNKAIHYFRKELEYQANNQYIPKPKPARIKKGRTRHS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**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:** 2132 bp

**RefSeq ORF:** 1263 bp

**Locus ID:** 80146

**UniProt ID:** Q8NBZ7

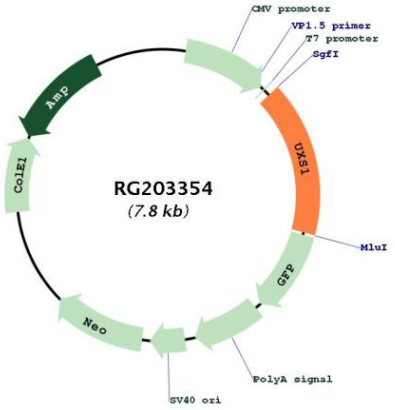
**Cytogenetics:** 2q12.2

**Protein Families:** Transmembrane

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

**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 RG203354