

Product datasheet for **RG233551**

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:	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:	>RG233551 representing NM_001253876 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTATAATCCTATCAAGACATTAAGACCAATACGATTGGGACATTAACATGTTGGGGCTGGCAAAC
GAGTCGGTGCCCGTCTGCTCCTGGCCTCCACATCGGAGGTGTATGGAGATCCTGAAGTCCACCCTCAAAG
TGAGGATTACTGGGGCCACGTGAATCCAATAGGACCTCGGGCCTGCTACGATGAAGGCAAACGTGTTGCA
GAGACCATGTGCTATGCCTACATGAAGCAGGAAGGCGTGAAGTGCAGTGGCCAGAATCTTCAACACCT
TTGGGCCACGCATGCACATGAACGATGGGCGAGTAGTCAGCAACTTCATCCTGCAGGCGCTCCAGGGGGA
GCCACTCACGGTATACGGATCCGGTCTCAGACAAGGGCGTTCCAGTACGTCAGCGATCTAGTGAATGGC
CTCGTGGCTCTCATGAACAGCAACGTCAGCAGCCCGGTCAACCTGGGGAACCCAGAAGAACACACAAATCC
TAGAATTTGCTCAGTTAATTA AAAACCTTGTGGTAGCGGAAGTGA AATTCAGTTTCTCTCCGAAGCCCA
GGATGACCCACAGAAAAGAAAACCAGACATCAAAAAGCAAAGCTGATGCTGGGGTGGGAGCCCGTGGTC
CCGCTGGAGGAAGGTTTAAACAAAGCAATTCACTACTTCCGTAAGAAGTACGAGTACCAGGCAAATAATC
AGTACATCCCAAACCAAAGCCTGCCAGAATAAAGAAAGGACGGACTCGCCACAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG233551 representing NM_001253876
 Red=Cloning site Green=Tags(s)

MYNPIKTLKTNTIGTLNMLGLAKRVGARLLLSTSEVYGDPEVHPQSEDYWGHVNPIGPRACYDEGKRVA
 ETMCYAYMKQEGVEVRVARIFNTFGPRMHMNDGRVVSNFILQALQGEPLTVYVSGSQTRAFQYVSDLVNG
 LVALMNSNVSSPVNLGNPEEHTILEFAQLIKNLVSGSEIQFLSEAQDDPQKRKPKDIKKAKLMLGWPEVV
 PLEEGLNKAIHYFRKELEYQANNQYIPKPKPARIKKGRTRHS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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](#)

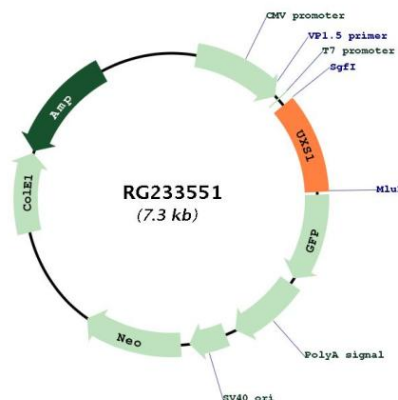
Cytogenetics: 2q12.2

Protein Families: Transmembrane

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

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 RG233551