

## Product datasheet for **RG206771**

### XXYLT1 (NM\_152531) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** XXYLT1 (NM\_152531) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** XXYLT1  
**Synonyms:** C3orf21  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG206771 representing NM\_152531  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGCTCCTCCGAGGCGGGCTCCCATGCGCTCGGGCCATGGCGCGCTGGGCGCTGTGCGCTCCCACT  
 ACTGCGCCTGCTGTGGCCGCGCGCTGGCCGTCTGCGCCTTCTACTACCTCGGCTCAGGCCGGGAGAC  
 CTTCTCCAGCGCCACCAAGAGGCTGAAGAGGCCCGCGCCGGGGTCCC GCCCGCCCTCGCCGCCCGG  
 CTGGAGCTAGCGGGGGCTCCGTGGCGCCAGCCCCGGCGGAAGGCCAAGAGCTTGAGGGCGGGGTG  
 CCGGGCCGGTGGACTACCACCTGCTGATGATGTTACCAAGGCGGAGCACAAATGCCCGCTGCAGGCCAA  
 GGCCCGCTCGCGCTGCGCTCACTGCTGCGCCTCGCCAAGTTCGAGGCGCACGAGGTGCTTAACCTTCAC  
 TTCGTGAGCGAGGAGGCCAGCCGCGAGGTGGCCAAAGGCCCTGCTGCGGGAGCTCCTGCCGCCCGCGCTG  
 GCTTCAAGTGCAAGTCACTTCCACGATGTTGCTGTGCTGACGGATAAGCTTTCCTCCCATCGTGGAGGC  
 CATGCAGAAGCACTTCAGTGTGGCTTGGGAACCTACTACAGTACTCCATCTTCTCTCGTGCAGC  
 ATGCATCAGATCATGCCAAAGAGATCCTGCAGATCATTACAGTGGACCTAGACCTGAAGTTAAGACCA  
 ACATCCGGGAGTTGTTTGAGGAATTTGACAGTTTCCTGCCAGGCGCCATCATCGGCATAGCCCGGGAGAT  
 GCAGCCAGTTTACAGGCACACATTTGCGAGTTCCGCCATGAGAACCCAGACCCGGGTTGGGGCCCCG  
 CCCCCGAGGGGCTGCCGGCTTCAACAGCGGGGTGATGTTGCTGAACCTGGAGGCCATGCCAGTCCC  
 CGCTCTACAGCCCGCTGCTGGAGCCGGCGCAGGTGCAGCAGCTGGCCGACAAGTACCACTTCCGCGGCCA  
 CCTCGGGGACCAGGACTTCTTACCATGATCGGCATGGAGCACCCCAAGCTTCCATGTGCTGGACTGT  
 ACCTGGAACCGCAGCTGTGCACCTGGTGGAGGGACCATGGCTACAGTGACGTCTTCAGGCCTATTTTCA  
 GGTGTGAGGGCCACGTCAAGATCTACCACGGAACTGCAACACTCCCATCCCGGAGGAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG206771 representing NM\_152531  
 Red=Cloning site Green=Tags(s)

MGLLRGGLPCARAMARLGAVRSHYCALLLAAALAVCAFYYLGSGRETFSSATKRLKEARAGAPAAPSPPA  
 LELARGSVAPAPGAKAKSLEGGGAGPVDYHLLMMFTKAEHNAALQAKARVALRSLRLAKFEAEVNLNH  
 FVSEEAASREVAKGLLRELLPPAAGFKCKVIFHDVAVLTDKLFPIVEAMQKHFSAGLGTYYSDSIFFLSVA  
 MHQIMPKEILQIIQLDLKFKTNIRELFEEFDSFLPGAIIGIAREMQPVYRHTFWQFRHENPQTRVGGP  
 PPEGLPGFN SGVMLLNLEAMRQSPLYSRLLLEPAQVQQLADKYHFRGHLGDQDFFTMIGMEHPKLFHVLDC  
 TWNRLCTWWRDHGYSVDVFEAYFRCEGHVKIYHGNCNTPIPED

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_152531

**ORF Size:** 1179 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_152531.5](#)

**RefSeq Size:** 2820 bp

**RefSeq ORF:** 1182 bp

**Locus ID:** 152002

**UniProt ID:** [Q8NBI6](#)

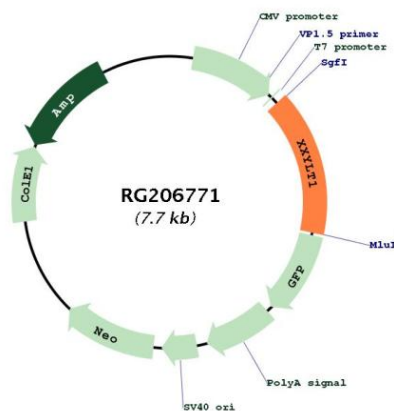
**Cytogenetics:** 3q29

**Domains:** Glyco\_transf\_8

**Protein Families:** Transmembrane

**Gene Summary:** Alpha-1,3-xylosyltransferase, which elongates the O-linked xylose-glucose disaccharide attached to EGF-like repeats in the extracellular domain of target proteins by catalyzing the addition of the second xylose (PubMed:22117070, PubMed:8982869). Known targets include Notch proteins and coagulation factors, such as F9 (PubMed:22117070, PubMed:8982869). [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG206771