

Product datasheet for **SC124261**

OGT (NM_181672) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OGT (NM_181672) Human Untagged Clone
Tag:	Tag Free
Symbol:	OGT
Synonyms:	HINCUT-1; HRNT1; MRX106; O-GLCNAC; OGT1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_181672, the custom clone sequence may differ by one or more nucleotides

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ATGGCGTCTTCCGTGGGCAACGTGGCCGACAGCACAGAACCAACGAAACGTATGCTTTCCTTCCAAGGGT
TAGCTGAGTTGGCACATCGAGAATATCAGGCAGGAGATTTTGGGCAGCTGAGAGACACTGCATGCAGCT
CTGGAGACAAGAGCCAGACAATACTGGTGTGCTTTTATTACTTTTCATCTATACACTTCCAGTGTGCAAGG
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ATTTGGGAATGTGTACAAGAAAAGAGGGCAGTTGCAGGAGGCAATTGAGCATTATCGACATGCATTGCG
TCTCAAACCTGATTTTCATCGATGGTTATATTAACCTGGCAGCCGCTTGGTAGCAGCGGGTGACATGGAA
GGGGCAGTACAAGCTTACGTCTCTGCTCTTCACTACAATCCTGATTTGTACTGTGTTGCGAGTGACCTGG
GGAACCTGCTCAAAGCCCTGGTTCGCTTGAAGAAGCCAAGGCATGTTATTTGAAAGCAATTGAGACGCA
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GTGAAGCTGGAACTGATCTAGAATACCTGAAGAAAGTTCGTGGCAAAGTCTGGAAGCAAAGAATATCTA
GCCCTCTGTTCAACACCAACAATACACAATGGAAGTACTAGAGCGGCTCTATCTACAGATGTGGGAGCATA
TGCAGCTGGCAACAACTGACCACATGATTAAGCCTGTTGAAGTCACTGAGTCAGCATAA
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_181672 unedited ATAGGCCGGCCGCGAATTCGCACGAGGGTCGCCGCCATTTCAATACCGTACTAGGTAGAT GGTCAATTAGAGTTCCCAGGGTTTGAAGCCTGTAAGTCTGCCGCCGCTCAAGCCCTCCA GAGCATTGCTACGGCTGCTGCCCTTGTACTACTACCTCCAATACGTTCTTGCTGGTAGT GGCGGCAGCAGGACCAATTACCTCTTTTTGCTCTCCCTCGAGAAGCTCCAGATGGCGTC TTCCGTGGGCAACGTGGCCGACAGCACAGAACCAACGAAACGTATGCTTTCCTTCCAAGG GTTAGCTGAGTTGGCACATCGAGAATATCAGGCAGGAGATTTTGAGGCAGCTGAGAGACA CTGCATGCAGCTCTGGAGACAAGAGCCAGACAATACTGGTGTGCTTTTATTACTTTCATC TATACTTCCAGTGTGCAAGGCTGGACAGATCTGCTCACTTTAGCACTCTGGCAATTA ACAGAACCCCTTCTGGCAGAAGCTTATTCGAATTTGGGGAATGTGTACAAGGAAAGAGG GCAGTTGCAGGAGGCAATTGAGCATTATCGACATGCATTGCGTCTCAAACCTGATTTTCAT CGATGGTTATATTAACCTGNCAGCCGCTTGGTAGCAGCGGGTGACATGGAANGNGCAGT ACAAGCTTACGTCTCTGCTCTTTCAGTACAATCCTGATTTGTACTGTGTCGACGTGACCT GNGGAACCTGCTCAAAGCCTGNGTCGCTTGGAAAGAGCCAGNGTAGTGGTTGATAGACACA TTTAACATCAGTATATGAAAACTGTACTTTTTGCCAAGTCTTCAACTTTCATTGAGCT ATCTTCACAAACAGTCCCTTTGAACTNNGAGAACTGACGGCAGGATTTCGCCTAAAATAAA CAGGGCCAGGCCTTGGCATATTTGTTCTAAAT
Restriction Sites:	NotI-NotI
ACCN:	NM_181672
Insert Size:	5000 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 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
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:	<ol style="list-style-type: none"> 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_181672.1 , NP_858058.1
RefSeq Size:	5475 bp

RefSeq ORF: 3141 bp

Locus ID: 8473

UniProt ID: [O15294](#)

Cytogenetics: Xq13.1

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, O-Glycan biosynthesis

Gene Summary: This gene encodes a glycosyltransferase that catalyzes the addition of a single N-acetylglucosamine in O-glycosidic linkage to serine or threonine residues. Since both phosphorylation and glycosylation compete for similar serine or threonine residues, the two processes may compete for sites, or they may alter the substrate specificity of nearby sites by steric or electrostatic effects. The protein contains multiple tetratricopeptide repeats that are required for optimal recognition of substrates. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Oct 2009]
Transcript Variant: This variant (1) encodes the longer isoform (1).