

Recombinant Full Length Human OGT Protein, C-Flag-tagged

Cat. No. OGT-1093HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human OGT Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	<p>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.</p>
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	116.7 kDa
AA Sequence	<p>MASSVGNVADSTEPTKRMLSFQGLAELAHREYQAGDFEAAERHCMQLWRQEPDN TGVLLLLSSIHFCRR LDRSAHFSTLAIKQNPLLAEAYSNLGNVYKERGQLQEAIHY RHALRLKPDFIDGYINLAAALVAAGDME GAVQAYVSALQYNPDLYCVRSDLGNLLKA LGRLEEAKACYLKAJETQPNFAVAWSNLGCVFNAQGEIWLAIHHFEKAVTLDPNFLD AYINLGNVLEKEARIFDRAVAAYLRALSLSPNHAVVHGNLACVYYEQGLIDLAIID TYRR</p>

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AIELQPHFPDAYCNLANALKEKGSVAEAEDCYNTALRLCPTHADSLNNLANIKREQG
 NIEEAVRLY RKALEVFPEFAAAHSNLASVLQQQGKLEALMHYKEAIRISPTFADAY
 SNMGNTLKEMQDVQGALQCYTR AIQINPAFADAHSNLASIHKDSGNIPEAIASYRTA
 LKLKPDFPDAYCNLAHCLQIVCDWTDYDERMKKLV SIVADQLEKNRLPSVHPHSM
 LYPLSHGFRKAIAERHGNLCLDKINVLHKPPYEHPKDLKLSDGRLRVGY VSSDFGNH
 PTSHLMQSIPGMHNPDKFEVFCYALSPDDGTNFRVKVMAEANHFIDLSQIPCNGKAA
 DRIHQ DGIHILVNMNGYTKGARNELFALRPAPIQAMWLGYPGTSGALFMDYIITDQE
 TSPAEEVAEQYSEKLAYMP HTFFIGDHANMFPHLKKKAVIDFKSNGHIYDNRIVLNGID
 LKAFLDSLDPVKIVKMKCPDGGDNADSSNT ALNMPVIPMNTIAEAVIEMINRGQIQITI
 NGFSISNGLATTQINNKAATGEEVPRTIIVTTRSQYGLPED AIVYCNFNQLYKIDPSTL
 QMWANILKRVPNSVLWLLRFPVAVGEPNIQQYAQNMGLPQNRRIIFSPVAPKEE HVRR
 GQLADVCLDTPLCNGHTTGMDVLWAGTPMVTMPGETLASRVAASQLTCLGCLELIA
 KNRQEYEDIA VKLGTDLLEYLKKVRGKVVWQRISPLFNTKQYTMELERLYLQMWEH
 YAAGNKPDHMIKPVEVTESASGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Metabolic pathways, O-Glycan biosynthesis

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Full Length Full L.

GENE INFORMATION

Gene Name OGT O-linked N-acetylglucosamine (GlcNAc) transferase [Homo sapiens (human)]

Official Symbol OGT

Synonyms OGT1; HRNT1; MRX106; XLID106; HINCUT-1; O-GLCNAC

Gene ID 8473

mRNA Refseq NM_181672.3

Protein Refseq NP_858058.1

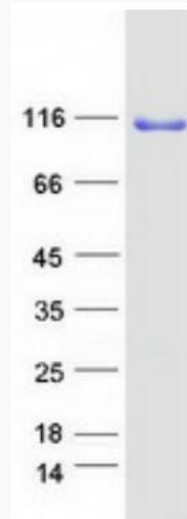
MIM 300255

UniProt ID O15294

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Coomassie blue staining of purified OGT protein.

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