

Product datasheet for **TP306822M**

OGT (NM_181672) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine:polypeptide-N-acetylglucosaminyl transferase) (OGT), transcript variant 1, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC206822 representing NM_181672 Red =Cloning site Green =Tags(s)

MASSVGNVADSTEPTKRMLSFQGLAELAHREYQAGDFEAAERHCMQLWRQEPDNTGVLLLLSSIHFCRR
LDRSAHFSTLAIKQNPDLAEAYSNLGNVYKERGQLQEAIEHYRHALRLKPDFIDGYINLAAALVAAGDME
GAVQAYVSALQYNPDLYCVRSDLGNNLLKALGRLEEAKACYLKAIETQPNFAVAWSNLGCVFNAQGEIWL
IHHFEKAVTLDPNFLDAYINLGNVLKEARIFDRAVAAYLRALSLSPNHAWVHGNLACVYEQGLIDLAI
TYRRAIELQPHFPDAYCNLANALKEKGSVAEEDCYNTALRLCPTHADSLNLANIKREQGNIEEAVRLY
RKALEVFPFAAAHSNLASVLQQGKLQEALMHYKEAIRISPTFADAYSNMGNLTKEMQDVQALQCYTR
AIQINPAFADAHSNLASIHKDSGNIPEAIASRYRTALKLPDFDAYCNLAHCLQIVCDWTDYDERMCKLV
SIVADQLEKNRPSVHPHSMPLYPLSHGFRKAIAERHGNLCLDKINVLHKPPYEHPKDLKLSDGRLRVGY
VSSDFGNHPTSHLMQSIPGMHNPDKFEVFCYALSPDDGTNFRVKVMAEANHFIDLSQIPCNGKAADRIHQ
DGIHILVNMNGYTKGARNELFALRPAIQAMWLGYPGTSGALFMDYIITDQETSPAEEAEQYSEKLAYMP
HTFFIGDHANMFPHLKKKAVIDFKSNGHIYDNRIVLNGIDLKAFDLSLPDKIVKMKCPDGGDNADSSNT
ALNMPVIPMNTIAEAVIEMINRGQIQITINGFSISNGLATTQINNKAATGEEVPRTIIVTTRSQYGLPED
AIVYCNFNQLYKIDPSTLQMWANILKRVNSVLWLLRFPVAVGEPNIQQYAQNMGLPQNRNIIIFSPVAPKEE
HVRRGQLADVCLDTPLCNGHTTGMDVWLAGTMTMPGETLASRVAASQLTCLGCLELIAKNRQEYEDIA
VKLGTDLLEYLKKVRGKVVWQRISSPLFNTKQYTMELERLYLQMWEHYAAGNKPDMIKPVEVTEA

SGPTRRRLEQKLISEEDLAANDILDYKDDDDKV

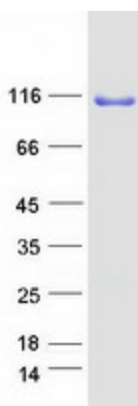
Tag:	C-Myc/DDK
Predicted MW:	116.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_858058
Locus ID:	8473
UniProt ID:	O15294
RefSeq Size:	5475
Cytogenetics:	Xq13.1
RefSeq ORF:	3138
Synonyms:	HINCUT-1; HRNT1; MRX106; O-GLCNAC; OGT1
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]
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, O-Glycan biosynthesis

Product images:



Coomassie blue staining of purified OGT protein (Cat# [TP306822]). The protein was produced from HEK293T cells transfected with OGT cDNA clone (Cat# [RC206822]) using MegaTran 2.0 (Cat# [TT210002]).