

Product datasheet for **RG212218**

UGGT (UGGTI) (NM_020120) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	UGGT
Synonyms:	HUGTI; UGCGLI; UGTI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG212218 representing NM_020120
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGTGCAGGGAGACGCGAGCGGTGCGTGTGCCGGGGTGCCTGCCGGTGACAGGAGTTTGTCTATA
AAATGGGAGTTCTGGTTGTAAGTCACTGTTCTGTGGCTGTTCTCCTCAGTAAAGGCCGACTCAAAAGCCAT
TACAACCTCTCTTACAACAAAATGGTTTTCCACTCCATTGTTGTTAGAAGCCAGTGAGTTTTTAGCAGAA
GACAGTCAAGAGAAATTTTGAATTTGTAGAAGCCAGTCAAAATATTGGATCATCAGATCATGACGGTA
CCGATTATTCTACTATCATGCAATATTGGAGGCTGCATTTTCAGTTTCTGTCACCCCTCCAGCAGAATTT
GTTTAAATTTTGTCTGTCCCTTCGTTCTTACTCAGCTACAATCCAAGCCTTCCAGCAGATAGCAGCTGAT
GAACCTCCACCAGAAGGATGTAATTCGTTTTTTCAGTGCATGGAAGAAGACTTGTGAATCTGATACCC
TTGAGGCTCTTCTACTGACAGCCTCTGAAAGACCCAAACCTTTATTGTTCAAAGGAGATCACAGATATCC
CTCGTCTAATCCTGAAAGCCCTGTGGTGATTTTCTACTCTGAGATTGGCTCTGAGGAATTTTCCAATTTT
CACCGCCAGCTTATATCAAAAAGCAATGCAGGCAAAATCAATTATGTATTTCAGACATTATATATTTAATC
CCAGGAAGGAGCCTGTTTACCTCTCTGGCTATGGCGTGAATTTGGCCATTAAGAGCACTGAGTACAAGGC
CAAGGATGATACTCAGTGAAAGGAACTGAGGTAACACCCACAGTGATTGGTGAAAATGATCCTATTGAT
GAGGTTCAAGGGTTCTCTTTGGAAAATTAAGAGATCTGCACCCGACCTGGAGGGACAGTTGAAAAGAAC
TCAGAAAGCATCTTGATAGAGACCAATGAAATGGCACCTTTAAAGGTTTGGCAGTTGCAAGATCTCAG
TTTCCAGACTGCTGCTCGAATCTTGGCTTCTCCTGTTGAGTTGGCTTTGGTTGTCATGAAGGATCTTAGT
CAGAATTTTCTACCAAGCCAGAGCAATAACAAAAACAGCTGTGAGCTCAGAACTTAGAACCGAAGTGG
AAGAGAATCAGAAGTATTTCAAGGGAACCTTAGGATTACAACCTGGAGATTAGCCCTCTTCATCAATGG
ACTTCACATGGATTTAGATACACAGGATATATTCACTGTTTGTGTTGAGGAATGAAGCTCGGGTA
ATGGAGGGTCTGCATAGATTGGGAATAGAAGGCCCTTCTCTGCATAATGTTTGAAGCTGAACATCCAGC
CCTCTGAGGCAGACTATGCCGTAGACATCCGAGTCTGCTATTTTCATGGGTCAACAACCTGGAGGTTGA
TAGCAGATATAATTCGTGGCCTTCTAGTTTACAAGAGTTGCTTCGACCCACCTTTCCTGGTGTATTTCGG
CAGATCAGGAAAACTTACATAATATGTTTTTCATAGTTGATCCTGCACATGAGACCACAGCAGAGTTGA



TGAACACAGCTGAGATGTTCTCTTAGTAATCATATACCACTAAGAATTGGTTTTATCTTTGTGGTTAATGA
CTCTGAAGATGTTGATGGGATGCAAGATGCTGGAGTGGCTGTTCTTAGAGCATATAATTATGTTGCCAA
GAAGTGGATGATTATCATGCCTTCCAGACTCTGACACATATCTATAACAAGGTGAGGACTGGAGAAAAAG
TGAAAGTTGAACATGTGGTCAGTGTCTGGAGAGAAGAAATATCCGTATGTAGAAGTGAATAGCATTGTTGGG
GATTGATTCTGCTTATGATCGGAATCGGAAGGAAGCAAGAGGCTACTATGAGCAGACTGGAGTTGGACCT
CTGCCCGTTGTGCTGTTCAATGGAATGCCCTTTGAAAGGGAACAGCTAGACCCTGATGAGTTAGAAACCA
TCACATGCATAAAATCCTGGAGACCACCCTTCTTCCAAGAGCGGTGTAAGTTGGTGAAGTGGCCCA
TGATCAAGATGTGGTAGAGTATATCATGAATCAGCCAAATGTTGTTCCACGAATCAATTCTAGGATTTTG
ACAGCTGAACGAGACTACCTGGATTAAACAGCGAGTAATAACTTCTTTGTGGATGATTATGCTAGATTTA
CTATCTTGGATTCCCAAGGCAAGACTGCTGCTGTAGCCAAATAGTATGAAGTATCTGACAAAGAAAGGAAT
GTCTCTCAAGGAAATCTATGATGATTCTTTTATTAGGCCAGTAACCTTTTGGATTGTTGGGGATTTTGAT
AGCCCTTCTGGACGGCAGTTACTGTATGATGCCATCAAAACATCAGAAATCCAGTAACAATGTTAGAAATAA
GCATGATCAATAATCCTGCCAAAGAGATAAGCTATGAGAACTCAGATCTCCAGAGCAATCTGGGCAGC
TCTCCAACTCAGACTTCCAACGCTGCTAAGAAGTTCATCACCAGTGGCCAGGAGGGGGCTGCAGAG
GCCCTGGCTGCAGGAGCTGACATTGCGGAGTTCTCTGTTGGGGAAATGGATTTTCACTCTTTTAAAGAGG
TCTTTGAGTCTTCCAAATGGATTTTCAATTTGTCTCATGCCGTGTACTGCAGGGATGTTCTGAAGCTGAA
GAAGGGACAGAGGGCAGTGATCAGCAATGGAAGGATCATTGGGCCACTGGAGGATAGTGAGCTCTTTAAT
CAAGACGATTTCCACCTCCTCGAAAATATCATCTTAAAACTCAGGACAGAAAATAAAATCTCATATTC
AACAGCTTCGGGTAGAAGAAGATGTGGCAAGCGACTTGGTAATGAAGGTGGATGCTCTTCTGTACGCGCA
ACCAAAAGGAGATCCAAGAATCGAGTACCAAGTTTGTGAAGACAGACACAGTGAATCAAACTGAGGCCG
AAGGAAGGGGAGACATACTTTGATGTTGTGGCTGCTGTTGACCCTGTACCAGAGAAGCACAGAGACTTG
CTCCTTTGCTCTTGGTTTGGCTCAGCTGATAAATGAATCTGAGAGTATTTAGAACTGCCAATCCAA
ACTTTCTGACATGCCTTTAAAAAGCTTTTACCGTTATGTCTTAGAACAGAGATTTCTTCACTTCAGAC
AATAGTTTTGCTAAGGGTCCAATCGCAAAATTTTGGATATGCCTCAGTCTCCACTGTTCACTCTGAATT
TGAACACACCTGAGAGCTGGATGGTGAATCTGTGAGAACACCATATGATCTTGATAATATTTATTTAGA
AGAGGTGGACAGTGTAGTGGCTGCTGAGTATGAGCTGGAATACCTGTTACTGGAAGGTCAATGCTACGAC
ATCACCACAGGCCAGCTCCACGGGACTACAGTTTACCTTAGGAATTCAGCCAAACCGGTCAATGTGG
ACACCATTTGTTATGGCCAATCTGGGCTACTTTTCACTGAAAGCCAAACCCAGGAGCTTGGATCTCAGACT
TAGGAAGGGACGCTCTGAAGATATTTATAGAATTTACAGCCACGATGGCACTGATTCTCCCCTGATGCT
GATGAGGTGGTTATCGTCCTCAACACTTCAAAAGCAAAATTTAAGTGAAGGTTGAGAAGAAGGCAG
ATATGGTGAACGAAGACTTGTGAGTGTGGAACGAGTGAGAATGAATCTGGATTTTGGATTCTTCAA
ATGGGGCTTTACAGGACAGAAGACTGAGGAAGTGAAGCAAGATAAAGATGACATAATTAATATTTCTCC
GTTGCATCTGGTCATCTCTACGAAAGATTTCTTCGCATAATGATGCTATCCGTGCTGAAGAATACCAAGA
CTCCTGTGAAATTTCTGTTCTTGAAGAATTACTGTCCCCACATTTAAGGAGTTTATACCTTACATGGC
AAATGAATACAATTTCCAGTATGAGCTTGTTCAGTACAAATGGCCCCGGTGGCTTCAACAACAACTGAA
AAACAGCGTATCATCTGGGGTTACAAGATCCTCTTCTGGATGTAATTTTCCCACTAGTTGTTGACAAGT
TCCTGTTTGTGGATGCTGATCAGTTGTACGAACAGATCTGAAAGAGTTAAGAGATTTCAATTTGGATGG
TGCTCCTTATGGTTACTCTTTCTGTGACAGCCGAAGAGAAATGGACGGCTACAGGTTCTGGAAGTCA
GGGTAAGTGGCCAGTCATTTAGCCGGGCGAAAGTATCATATCAGTGCATATATGTTGTGGATCTGAAGA
AGTTTATGGAATAAGTGTGCTGGTGACAGACTCAGGGGACAGTACCAAGGTCTGAGTCAAGACCTAACAG
CCTTTCAAATCTTGATCAAGATCTGCCAATAACATGATTCATCAGGTGCCAATTAATCCCTCCCTCAA
GAATGGCTTTGGTGTGAACGTTGGTGTGATGACGCCTTAAGAAAAGGGCAAAACCATTTGATTTGTGTA
ATAATCCGATGACCAAGAGCCGAACTGGAAGCAGCTGTGCGGATTGTCCCGAGTGGCAGGACTACGA
CCAAGAGATCAAAACAGCTACAGATCCGCTTTTCAAGAGGAGAAAGAAACGGGAGCACTGTACAAAGAGAAG
ACAAAAGAACCAAGCCGAGAAGGTCTCAGAAACGTGAAGAATTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG212218 representing NM_020120

Red=Cloning site Green=Tags(s)

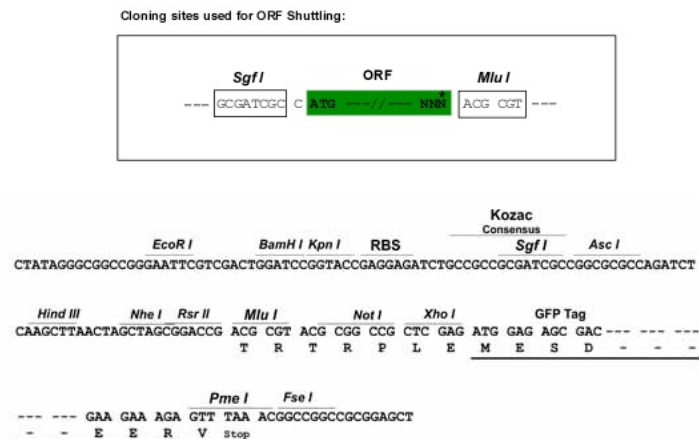
MGCKGDASGACAAGALPVTGVCYKMGVLVVLTVLWLFSSVKADSKAITTSITTKWFSTPLLEASEFLAE
DSQEKFWNFVEASQNIQSSDHDGTDYSYYHAILEAAQFLSPLQQNLKFCLSLRSYSATIQAQQIAAD
EPPPEGCSFFSVHGKKTCESDTLEALLTASERPKPLLFGDHRYPSSNPESPVVIFYSEIGSEEF SNF
HRQLISKSNAGKINYVFRHYIFNPRKEPVYLSGYVELAIKSTEYKAKDDTQVKGTEVNTTVIGENDPID
EVQGFLLFGKLRDLHPDLEGQLKELRKHLVESTNEMAPLKVWQLQDLSFQTAARILASPVELALVVMKDL
QNFPTKARAITKTAVSSELRTVEEENQKYFKGTGLQPGDSALFINGLHMDLTDQDIFSLFDVLRNEARV
MEGLHRLGIEGLSLHNLKLNIPSEADYAVDIRSPAISWVNNLEVDSEYNSWPSSQLQELLRPTFPGVIR
QIRKNLHNMVFIQPAHETTAELMNTAEMFLSNHIPLRIGFIFVNDSEVDGMDAGVAVLRAYNYVAQ
EVDDYHAFQTLTHIYNKVRTGEKVKEHVSVLEKKYPYVEVNSILGIDSAYDRNRKEARGYYEQTGVP
LPVVLNFMGMPFERQLDPDELETITMHKILETTTFFQRAVYLGELPHDQDVVEYIMNPVPRINSRIL
TAERDYDLTASNFFVDDYARFTILDSQKTAAVANSMNYLTKKGMSKEIYDDSFIRPVTFWIVGDFD
SPSGRQLLYDAIKHQKSSNNVRISMINNPAKEISYENTQISRAIWAALQTQTSNAKNFITKMAKEGAAE
ALAAGADIAEFSVGGMDFSLFKEVFESSKMDFILSHAVYCRDVLKKGQRAVISNGRIIGPLEDSELFN
QDDFHLLNIILKTSQGIKSHIQQLRVEEDVASDLVMKVDALLSAQPKGDPRIEYQFFEDRHSAILKRP
KEGETYFDVVAVDPVTREARLAPLLLVLAQLINMNLRVFMNCQSKLSDMPLKSFYRYVLEPEISFTSD
NSFAKGPIAKFLDMPQSPLFTLNLTNPESWMMVESVTPYDLNIIYLEEVDVSVAAEYELYLELLLEGHCYD
ITTGQPPRGLQFTLGTSANPVIQDTIVMANLGYFQLKANPGAWILRLRKGRSEDIYRIYSHDGTDSPPDA
DEVVIVLNNFKSKIIVKVQKQKADMVNEDLLSDGTSENEGFWDSFKWGFTGQKTEEVKQDKDDIINIFS
VASGHLIERFLRIMMLSVLKNTKTPVKFWFLKNYLSPTFKEFIPYMANEYNFYELVQYKWPRLHQQTE
KQRIIWGYKILFLDVLFLVVDKFLFVDADQIVRTDLKELRDFNLDGAPYGYTPFCDSRREMDGYRFWKS
GYWASHLAGRKYHISALYVVDLKKFRKIAAGDRLRGQYQGLSQDPNSLSNLDQDLNNMIHQVPIKSLPQ
EWLWCETWCDDASKKRAKTIDLNNPMTKEPKLEAAVRIVPEWQDYDQEIQLQIRFQKEKETGALYKEK
TKEPSREGPQKREEL

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

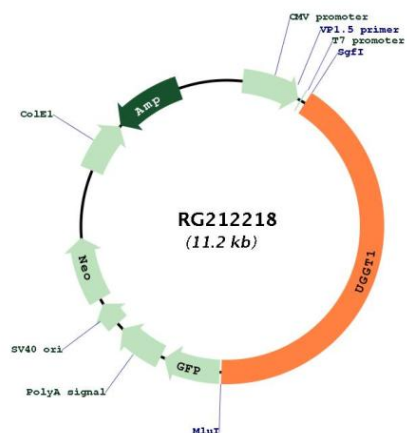
NM_020120

ORF Size:

4665 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_020120.4
RefSeq Size:	6385 bp
RefSeq ORF:	4668 bp
Locus ID:	56886
UniProt ID:	Q9NYU2
Cytogenetics:	2q14.3
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	UDP-glucose:glycoprotein glucosyltransferase (UGT) is a soluble protein of the endoplasmic reticulum (ER) that selectively reglucosylates unfolded glycoproteins, thus providing quality control for protein transport out of the ER.[supplied by OMIM, Oct 2009]

Product images:



Circular map for RG212218