

Product datasheet for **RR203412**

Ogt (NM_017107) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Ogt (NM_017107) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Ogt
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RR203412 representing NM_017107
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGTCTTCCGTGGCAACGTGGCCGACAGCACAGGGTTAGCTGAGTTGGCACATCGGGAATATCAGG
 CAGGAGACTTTGAGGCAGCTGAGAGACTGCATGCAGCTCTGGAGACAAGAGCCTGACAATACTGGTGT
 TCTTTTACTTTCATCTATACATTTCCAGTGTGCAAGGCTGGACAGATCTGCTCACTTTAGCACCTTG
 GCAATTAACAGAAATCCCCTTCTAGCAGAAGCCTATTCGAATTTGGGAAATGTATACAAGGAAAGAGGGC
 AATTACAGGAAGCAATTGAGCATTATCGACATGCTTTGCGGCTCAAGCCTGATTTCAATTGATGGTTATAT
 TAACCTGGCAGCAGCCTTGGTAGCAGCAGGTGACATGGAGGGAGCAGTGAAGCATACTGCTCTGCTCTT
 CAGTACAATCCTGATTTGTACTGTGTTCCGAGTGACCTGGGGAACCTGCTCAAAGCCCTGGGTCGCTTGG
 AAGAAGCCAAGGCATGTTATTTGAAAGCAATTGAGACGCAACCAACTTTGCTGTAGCCTGGAGTAATCT
 CGGCTGTGTTTTCAATGCACAAGGGGAGATTTGGCTGGCAATTCATCACTTTGAAAAGGCTGCACCCTT
 GACCCAAATTTCTGGATGCTTATATCAATTTAGGAAATGTTTTGAAAGAGGCACGGATTTTGGACAGAG
 CTGTGGCAGCTTATCTTCGTGCCTTAAGTTTGGCCAAATCATGCGGTGTTACAGGCAACCTGGCTTG
 TGTGACTATGAGCAAGGCTTATAGACCTGGCCATTGATACCTACAGGCGAGCTATAGAAGTGCAGCCT
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 ACGGGAACAGGGCAATATTGAAGAGGCAGTTCCGCTGTATCGCAAAGCATTAGAGGTCTTCCCAGAGTTT
 GCTGCTGCACATTTCAATTTAGCAAGTGTACTGCAACAGCAGGGCAAGCTGCAGGAAGCACTGATGCACT
 ATAAGGAAGCCATAAGAATCAGTCTACATTTGCTGATGCTTATTTCAATATGGGAAACACTTTAAAGGA
 GATGCAGGATGTTTCAGGGAGCTTTGAGTGTATACTCGTGCCATCCAGATTAATCTGCCTTCGCAGAT
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 CAGCTCTGAAACTTAAGCCTGACTTTCCTGATGCTTATTGTAACCTGGCTCATTGCCTACAGATTGTCTG
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 AGGCTGCCTTCTGTCCATCCTCATCACAGCATGCTGTACCCTCTTTCCATGGCTTCAGGAAGGCCATTG
 CAGAGAGGCATGGGAATCTGTGTTGGATAAGATTAATGTCCTTCATAAACCACCATATGAGCATCCAAA
 AGACTTGAAGCTCAGTGTGGCCGATTGCGTGTAGGCTATGTGAGTTCTGACTTTGGGAATCATCTACT



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TCACACCTTATGCAGTCTATTCCAGGCATGCACAACCCTGATAAGTTTGAGGTATTCTGCTATGCCTTGA
 GCCCGGATGACGGTACAACTTCCGAGTGAAGGTGATGGCGGAAGCCAATCACTTCATTGATCTTTCTCA
 GATTCCGTGCAATGGAAAAGCAGCTGACCGCATCCACCAAGATGGAATTCACATCCTTGTCAATATGAAT
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 TAGTTTTGAATGGCATCGATCTCAAAGCATTCTCGATAGTCTACCCGATGTGAAGATTGTCAAGATGAA
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 GGCTGTTGCGTTTTCCAGCAGTAGGAGAGCCCAATATTCAACAATATGCACAAAAATGGGCTTCCCCA
 GAACCGTATCATTTTCTACCTGTGGCTCCTAAGAGGAGCATGTCAGGAGAGGTCAGCTGGCTGATGTC
 TGCTGGATACTCTTTGTGTAATGGACATACCACAGGGATGGATGTTCTCTGGGAGGAACACCCATGG
 TGACTATGCCAGGAGAGACTCTTGCCTCTCGAGTTGCAGCTTCTCAGCTCACTTGTCTAGGATGCTTGA
 GCTCATTGCTAAAAGCAGACAGGAATATGAAGACATAGCCGTGAACTGGGGACCGATCTAGAATACCTG
 AAGAAAATTCGTGGCAAAGTATGGAAACAGAGAATATCTAGCCCTCTGTTCAACACCAACAATACACAA
 TGGAAATTAGAGCGGCTGTATCTGCAGATGTGGGAGCATTATGCAGCTGGCAACAAACCCGACCACATGAT
 TAAGCCTGTTGAAGTCACTGAGTCAGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR203412 representing NM_017107
 Red=Cloning site Green=Tags(s)

MASSVGNVADSTGLAELAHREYQAGDFEAAERHMCQLWRQEPDNTGVLLLLSSIHQCRRLDRSAHFSTL
 AIKQNPLLAEAYSNLGNVYKERRQLEAIEHYRHALRLKPDFIDGYINLAAALVAAGDMGAVQAYVSAL
 QYNPDLYCVRSDLGNLLKALGRLEEAKACYLKAJETQPNFAVAWSNLGCVFNAQGEIWLAIHHFEKAVTL
 DPNFLDAYINLGNVLKEARIFDRAVAAYLRALSLSPNHAVVHGNLACVYVEQGLIDLAIDTYRRAIELQP
 HFPDAYCNLANALKEKGSVAEAEDCYNTALRLCPHADSLNLANIKREQGNIEEAVRLYRKALEVFPEF
 AAHSNLSAVLQQQKLEALMHYKEAIRISPTFADAYSNMGNTLKEMQDVQALQCYTRAIQINPAFAD
 AHSNLSAIHKDSGNIPEAIASYRTALKLKPDPDAYCNLAHCLQIVCDWTDYDERMKKLVSIVAEQLEKN
 RLPSVHPHSMYLPLSHGFRKAI AERHGNLCLDKINVLHKPPYEHKDLKLDGRLRVGYVSSDFGNHPT
 SHLMQSIIPGMHNPDKFEVFCYALSPDDGTNFRVKVMAEANHFDLSQLPCNGKAADRIHQDGIHILVNMN
 GYTKGARNELFALRPAPIQAMWLGYPGTSALFMDYIITDQETSPAEEVAEQYSEKLAYMPHTFFIGDHAN
 MFPHLKKKAVIDFKSNGHIYDNRIVLNGIDLKAFLDLSDVVKIVKMKCPDGGDNADTTNTALNMPVIPMN
 TIAEAVIEMINRQIQITINGFISINGLATTQINNKAATGEEVPRTIIVTTRSQYGLPEDAIVYCNFNQL
 YKIDPSTLQMWANILKRVPNVSVLWLLRFPVAGEPNIQYQAQNMGLPQNRIFSPVAPKEEHVRRGLADV
 CLDTPLCNHGTGMDVLWAGTPMVTMPGETLASRVAASQLTCLGCELEIAKSRQEYEDIAVKGTDLEYL
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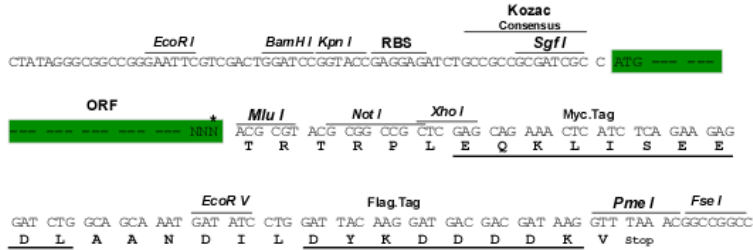
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

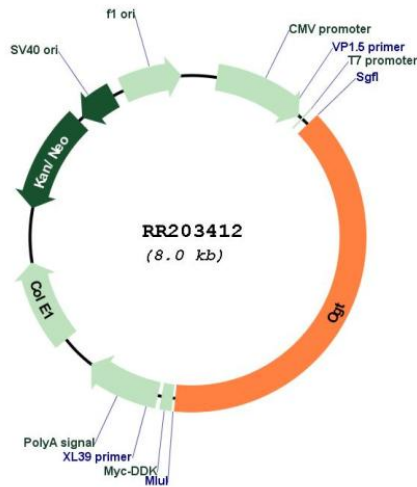
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_017107

ORF Size: 3108 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:	<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_017107.2 , NP_058803.2
RefSeq Size:	5308 bp
RefSeq ORF:	3111 bp
Locus ID:	26295
UniProt ID:	P56558
Cytogenetics:	Xq22
MW:	115.7 kDa
Gene Summary:	the catalytic p110 subunit of the enzyme involved in the dynamic O-GlcNAcylation of nuclear and cytosolic proteins [RGD, Feb 2006]