

Product datasheet for **RG200246**

UGP2 (NM_001001521) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UGP2 (NM_001001521) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	UGP2
Synonyms:	DEE83; EIEE83; pH379; SVUGP2; UDPG; UDPGP; UDPGP2; UGP1; UGPP1; UGPP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG200246 representing NM_001001521
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCTCAAGATGGTCTTCTCAGTTCCAAGAAGTCATTCGGCAAGAGCTAGAATTATCTGTGAAGAAGG
 AACTAGAAAAAATACTACCACAGCATCATCAGATGAATTTGAGCACACCAAAAAAGACCTGGATGGATT
 TCGGAAGCTATTTTCATAGATTTTGAAGAAAAGGGCCTTCTGTGGATTGGGAAAAATCCAGAGACCC
 CCTGAAGATTCGATTCAACCCTATGAAAAGATAAAGGCCAGGGCTTGCCTGATAATATATCTTCCGTGT
 TGAACAACTAGTGGTGGTGAACCTCAATGGTGGTTTGGGAACCAGCATGGGCTGCAAAGGCCCTAAAAG
 TCTGATTGGTGTGAGGAATGAGAATACCTTTCTGGATCTGACTGTTTCAAGCAATTTGAACATTTGAATAAA
 ACCTACAATACAGATGTTCTCTGTTTTAATGAACTCTTTAACACGGATGAAGATACCAAAAAATAC
 TACAGAAGTACAATCATTGTCGTGTGAAAATCTACTTTCAATCAAAGCAGGTACCGAGGATTAATAA
 AGAATCTTACTTCTGTAGCAAAGGACGTGCTTACTCAGGGGAAAATACAGAAGCTTGGTACCCTCCA
 GGTGATGGTGATATTTACGCCAGTTTCTACAACCTGGATTGCTTGATACCTTTATAGGAGAAGGCAAAG
 AGTATATTTTTGTGTCTAACATAGATAATCTGGGTGCCACAGTGGATCTGTATATTTCTTAATCATCTAAT
 GAACCCACCCAATGAAAACGCTGTGAATTTGTGATGGAAGTCAAAAATAAACACGTCAGATGTAAGG
 GGCGGGACACTCACTCAATGAAAGCAAAGTGGACTGGTGGAAATGCTCAAGTGCCAAAAGCACATG
 TAGACGAGTTCAGTCTGTATCAAAGTTCAAAAATTTAATAACAAACACCTATGGATTTCTCTTGACGC
 AGTTAAAAGACTGCAGGAGCAAAATGCCATTGACATGGAATCATTGTGAATGCAAAGACTTTGGATGGA
 GCCTGAATGTCATTCAATTAGAACTGCAGTAGGGCTGCCATCAAAGTTTTGAGAATCTCTAGGTA
 TTAATGTGCCAAGGAGCCGTTTTCTGCCTGTCAAACCACATCAGATCTTTGCTGGTGTGATGCAACCT
 CTATAGTCTTAATGCAGGATCTCTGACAATGAGTGAAGGCGGGAATTTCTACAGTGCCCTTGGTTAAA
 TTAGGCAGTCTTTTACGAAGTTCAAGATTATCTAAGAAGATTTGAAAGTATACCAGATATGCTTGAAT
 TGGATCACCTCACAGTTTCAAGGATGTGACATTTGGAAAAATGTTTCATTAAAGGGAACGGTTATCAT
 CATTGCAAATCATGGTGACAGAATTGATATCCACCTGGAGCAGTATTAGAGAACAAGATTGTGTCTGGA
 AACCTTCGCATCTTGACCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG200246 representing NM_001001521
 Red=Cloning site Green=Tags(s)

MSQDGASQFQEVIRQELESVKKELEKILTTASSHEFEHTKKDLDFRKLFRFLQEKGPSVDWGKIQRP
 PEDSIQPYEKIKARGLPDNISSVLNKL VVVKLNGGLGTSMGCKGPKSLIGVRNENTFLDLTVQQIEHLNK
 TYNTDVLVLMNSFNDEDTKKILQKYNHCRVKIYTFNQSRYPINKESLLPVAKDVSYSGENTEAWYPP
 GHGDIYASFYNSGLLDTF IGEGKEYIFVSNIDNLGATVDLYILNHLMNPPNGKRCEFMVEVTNKTRADV
 GGTLTQYEGKRLRVEIAQVPAHVDEFKSVSKFKIFNTNWLWISLAAVKRLQEQNAIDMEIIVNAKTLDG
 GLNVIQLETAVGAAIKSFENSLGINVPRSRFLPVKTTSDLLLVMNLYSLNAGSLTMSEKREFPTVPLVK
 LGSSFTKVQDYLRRFESIPDMLELDHLTVSGDVTFGKNVSLKGTVIIIANHGDRIDIPPGAVLENKIVSG
 NLRILDH

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001001521

ORF Size: 1491 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.

RefSeq: [NM_001001521.2](#)

RefSeq Size: 2129 bp

RefSeq ORF: 1494 bp

Locus ID: 7360

UniProt ID: [Q16851](#)

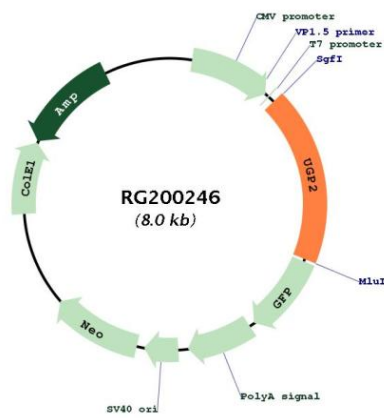
Cytogenetics: 2p15

Protein Families: Druggable Genome

Protein Pathways: Amino sugar and nucleotide sugar metabolism, Galactose metabolism, Metabolic pathways, Pentose and glucuronate interconversions, Starch and sucrose metabolism

Gene Summary: The enzyme encoded by this gene is an important intermediary in mammalian carbohydrate interconversions. It transfers a glucose moiety from glucose-1-phosphate to MgUTP and forms UDP-glucose and MgPPi. In liver and muscle tissue, UDP-glucose is a direct precursor of glycogen; in lactating mammary gland it is converted to UDP-galactose which is then converted to lactose. The eukaryotic enzyme has no significant sequence similarity to the prokaryotic enzyme. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG200246