

Product datasheet for **SC300205**

UGP2 (NM_001001521) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UGP2 (NM_001001521) Human Untagged Clone
Tag:	Tag Free
Symbol:	UGP2
Synonyms:	DEE83; EIEE83; pHC379; SVUGP2; UDPG; UDPGP; UDPGP2; UGP1; UGPP1; UGPP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC300205 representing NM_001001521.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGTCTCAAGATGGTCTTCTCAGTTCCAAGAAGTCATTCGCAAGAGCTAGAATTATCTGTGAAGAAG
GAACGTAGAAAAAATACTCACCACAGCATCACATGAATTTGAGCACACCAAAAAAGACCTGGATGGA
TTTCGGAAGCTATTTTCATAGATTTTGAAGAAAAGGGCCTTCTGTGGATTGGGAAAAATCCAGAGA
CCCCCTGAAGATTCGATTCAACCCTATGAAAAGATAAAGGCCAGGGGCTTGCCTGATAATATATCTTCC
GTGTTGAACAACTAGTGGTGGTGAACCTCAATGGTGGTTTGGGAACCAGCATGGGCTGCAAAGGCCCT
AAAAGTCTGATTGGTGTGAGGAATGAGAATACCTTTCTGGATCTGACTGTTCAAGCAAAATGAACATTTG
AATAAACCTACAATACAGATGTTCTCTTGTTTAATGAACTCTTTAACACGGATGAAGATACAAA
AAAATACTACAGAAGTACAATCATTGTCGTGTGAAAATCTACACTTTCAATCAAAGCAGGTACCCGAGG
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TACCCTCCAGGTATGGTATATTTACGCCAGTTTCTACAACCTGGATTGCTTGATACCTTTATAGGA
GAAGGCAAAGAGTATATTTTGTGTCTAACATAGATAATCTGGGTGCCACAGTGGATCTGTATATCTT
AATCATCTAATGAACCCACCAATGAAAACGCTGTGAATTTGTATGGAAGTCACAAATAAAACACGT
GCAGATGTAAAGGGCGGGACACTCACTCAATATGAAGGCAAACCTGAGACTGGTGGAAATGCTCAAGTG
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GAGAATTTCTAGGTATTAATGTGCCAAGGAGCCGTTTTCTGCCTGTCAAACCACATCAGATCTCTTG
CTGGTGTGTCAAACCTCTATAGCTTAATGCAGGATCTCTGACAATGAGTGAAAAGCGGGAAATTTCT
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ATACCAGATATGCTTGAATTGGATCACCTCACAGTTTCAGGAGATGTGACATTTGAAAAAATGTTTCA
TTAAAGGGAACGGTTATCATCATTGCAAATCATGGTGACAGAATTGATATCCACCTGGAGCAGTATTA
GAGAACAAGATTGTCTGGAACCTTCGCATCTTGGACCACTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_001001521

Insert Size: 1494 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	<u>NM_001001521.1</u>
RefSeq Size:	2129 bp
RefSeq ORF:	1494 bp
Locus ID:	7360
UniProt ID:	<u>Q16851</u>
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
MW:	55.7 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and coding region compared to variant 1. The resulting isoform (b) is shorter at the N-terminus compared to isoform a.</p>