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Product datasheet for RG208376

UGP2 (NM_006759) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UGP2 (NM_006759) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	UGP2
Synonyms:	DEE83; EIEE83; pHC379; 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:

>RG208376 representing NM_006759
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCGAGATTTGTACAAGATCTTAGCAAAGCAATGTCTCAAGATGGTGCTTCTCAGTTCCAAGAAGTCA
TTCGGCAAGAGCTAGAATTATCTGTGAAGAAGGAACTAGAAAAAATACTCACCACAGCATCATCACATGA
ATTTGAGCACACCAAAAAAGACCTGGATGGATTTCGGAAGCTATTTCATAGATTTTTGCAAGAAAAGGGG
CCTTCTGTGGATTGGGGAAAAATCCAGAGACCCCCTGAAGATTCGATTCAACCCTATGAAAAGATAAAGG
CCAGGGGCTTGCCTGATAATATATCTTCCGTGTTGAACAAACTAGTGGTGGTGAAACTCAATGGTGGTTT
GGGAACCAGCATGGGCTGCAAAGGCCCTAAAAGTCTGATTGGTGTGAGGAATGAGAATACCTTTCTGGAT
CTGACTGTTCAGCAAATTGAACATTTGAATAAAACCTACAATACAGATGTTCCTCTTGTTTTAATGAACT
CTTTTAACACGGATGAAGATACCAAAAAAATACTACAGAAGTACAATCATTGTCGTGTGAAAATCTACAC
TTTCAATCAAAGCAGGTACCCGAGGATTAATAAAGAATCTTTACTTCCTGTAGCAAAGGACGTGTCTTAC
TCAGGGGAAAATACAGAAGCTTGGTACCCTCCAGGTCATGGTGATATTTACGCCAGTTTCTACAACTCTG
GATTGCTTGATACCTTTATAGGAGAAGGCAAAGAGTATATTTTTGTGTCTAACATAGATAATCTGGGTGC
CACAGTGGATCTGTATATTCTTAATCATCTAATGAACCCACCCAATGGAAAACGCTGTGAATTTGTCATG
GAAGTCACAAATAAAACACGTGCAGATGTAAAGGGCGGGACACTCACTCAATATGAAGGCAAACTGAGAC
TGGTGGAAATTGCTCAAGTGCCAAAAGCACATGTAGACGAGTTCAAGTCTGTATCAAAGTTCAAAATATT
TAATACAAACAACCTATGGATTTCTCTTGCAGCAGTTAAAAGACTGCAGGAGCAAAATGCCATTGACATG
GAAATCATTGTGAATGCAAAGACTTTGGATGGAGGCCTGAATGTCATTCAATTAGAAACTGCAGTAGGGG
CTGCCATCAAAAGTTTTGAGAATTCTCTAGGTATTAATGTGCCAAGGAGCCGTTTTCTGCCTGTCAAAAC
CACATCAGATCTCTTGCTGGTGATGTCAAACCTCTATAGTCTTAATGCAGGATCTCTGACAATGAGTGAA
AAGCGGGAATTTCCTACAGTGCCCTTGGTTAAATTAGGCAGTTCTTTTACGAAGGTTCAAGATTATCTAA
GAAGATTTGAAAGTATACCAGATATGCTTGAATTGGATCACCTCACAGTTTCAGGAGATGTGACATTTGG
AAAAAATGTTTCATTAAAGGGAACGGTTATCATCATTGCAAATCATGGTGACAGAATTGATATCCCACCT
GGAGCAGTATTAGAGAACAAGATTGTGTCTGGAAACCTTCGCATCTTGGACCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

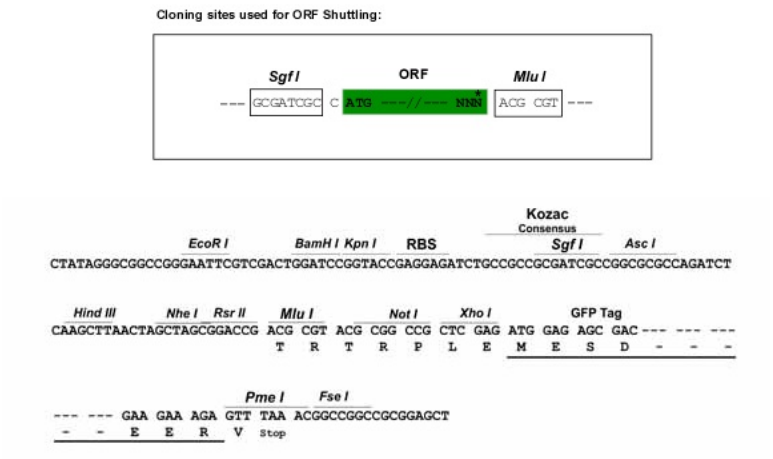
>RG208376 representing NM_006759
Red=Cloning site Green=Tags(s)

MSRFVQDLSKAMSQDGASQFQEVIRQELELSVKKELEKILTTASSHEFEHTKKDLDGFRKLFHRFLQEKG
PSVDWGKIQRPPEDSIQPYEKIKARGLPDNISSVLNKLVVVKLNGGLGTSMGCKGPKSLIGVRNENTFLD
LTVQQIEHLNKTYNTDVPLVLMNSFNTDEDTKKILQKYNHCRVKIYTFNQSRYPRINKESLLPVAKDVSY
SGENTEAWYPPGHGDIYASFYNSGLLDTFIGEGKEYIFVSNIDNLGATVDLYILNHLMNPPNGKRCEFVM
EVTNKTRADVKGGTLTQYEGKLRLVEIAQVPKAHVDEFKSVSKFKIFNTNNLWISLAAVKRLQEQNAIDM
EIIVNAKTLDGGLNVIQLETAVGAAIKSFENSLGINVPRSRFLPVKTTSDLLLVMSNLYSLNAGSLTMSE
KREFPTVPLVKLGSSFTKVQDYLRRFESIPDMLELDHLTVSGDVTFGKNVSLKGTVIIIANHGDRIDIPP
GAVLENKIVSGNLRILDH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

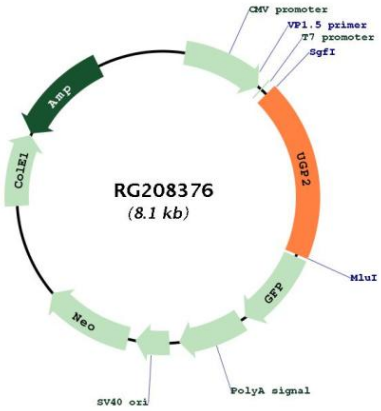
Cloning Scheme:



ACCN:	NM_006759
ORF Size:	1524 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_006759.4
RefSeq Size:	2185 bp
RefSeq ORF:	1527 bp
Locus ID:	7360
UniProt ID:	Q16851
Cytogenetics:	2p15

Domains:	UDPGP
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 RG208376