

Product datasheet for **MG208169**

Ugp2 (NM_139297) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ugp2 (NM_139297) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ugp2
Synonyms:	UDPGP; UGPase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208169 representing NM_139297
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCGAGATTTGTACAAGATCTTAGCAAAGCTATGTCTCAAGATGGTGTCTCTCAGTTCGAAGAGGTCA
 TTCTCCAAGAAGCTAGAATTATCTGTGAAGAAAGAATTAGAAAAATACTTACCACAGCAGCCTCACATGA
 GTTTGAGCACACTAAAAAGATCTTGATGGATTCGGAAGCTATTTTCATAGATTTTTGCAAGAAAAGGGA
 CCGTCTGTGGACTGGGTAAAATCCAGAGACCTCCAGAAGATTCGATTCAACCCTATGAAAAGATAAAAAG
 CCAGAGGCTTGCCTGATAACATATCTTCTGTGTTGAACAAGTTGGTGGTAGTAACTCAATGGTGGTTT
 GGGAAACCAGCATGGGCTGCAAAGGCCCTAAAAGTCTGATTGGTGAAGAAATGAGAACACCTTTTTGGAT
 CTAAGTCTCAGCAAATGAACATTTGAACAAAACCTATAATACAGATGTTCTCTCGTTTTAATGAATT
 CTTTTAACACGGATGAAGATACAAAAAATACTCCAGAAGTACAATCACTGTCGTGTGAAAATCTACAC
 CTTCAATCAAAGCAGGTACCCGAGGATCAATAAGGAATCTCTACTTCTATAGCAAAGGATGTGTCTTAT
 TCAGGGGAAAATACTGAAGCTTGGTACCCTCCAGGGCATGGAGATATCTATGCTAGTTTCTACAATTCTG
 GCTTGCTCGATACCTTTATAGAAGAAGGCAAAGAGTATATTTTTGTGTCTAACATAGATAATCTGGGTGC
 CACAGTGGATCTTTATATTTAATCACCTGATGAACCCACCAATGGGAAGCGCTGTGAGTTTGTGATG
 GAAGTCACAAACAAAACACGAGCAGATGTTAAGGGTGGGACACTCACTCAGTATGAAGGCAAACCTGAGAC
 TGGTGGAAATCGCTCAAGTGCCAAAGCACACGTTGATGAGTTCAAGTCTGTGTCAAAATTTAAATATT
 TAACACAAACAACCTATGGATTTCTCTGGAGCAGTTAAAAGACTTCAGGAACAGAATGCCATTGACATG
 GAAATCATTGTGAATCCAAGACATTGGATGGAGGCTGAATGTAATTCAGTTAGAAACTGCAGTTGGAG
 CTGCAATTAAGGTTTCGAGAATTTCTTTAGGTATTAATGTTCAAGGAGTCGTTTTCTGCCTGTGAAAAC
 CACATCAGATCTCTTGCTTGATGTCAAACCTCTATAGCCTTAACGCAGGATCTCTGACCATGAGTGAA
 AAGCGTGAATTCCTACAGTGCCCTTGGTTAAATTAGGCAGTTCTTTTACCAAGTTCAAGATTATCTAA
 GAAGGTTTGAAGTATACCCGATATGCTGGAACGGACCCTCACTGTTTCAGGAGATGTGACATTTGG
 AAAAAATGTTTCACTAAAGGGAACAGTTATTATTGCAAATCATGGTGACAGAATTGACATCCCCCA
 GGAGCCGTGTTAGAGAACAAGATTGTATCTGGAACCTTCGGATCCTGGATCAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208169 representing NM_139297
 Red=Cloning site Green=Tags(s)

MSRFVQDLSKAMSQDGASQFQEVILQELELSVKKELEKILTTAASHEFEHTKKDLDFRKLFRFLQEK
 PSVDWGIQRPPEDSIQPYEKIKARGLPDNISSVLNKL VVVKLNGLGTSMGCKGPKSLIGVRNENTFLD
 LTVQQIEHLNKTYNVDVPLVLMNSFNDEDTKKILQKYNHCRVKIYTFNQSRYPRIKESLLPIAKDVS
 YSGENTEAWYPPGHDIYASFYNSGLLDTFIEEGKEYIFVSNIDNLGATVDLYILNHLMNPPNGKRCE
 FVM EVTNKTRADVKGGLTQYEGKLRLEIAQVPAHVDFKSVSKFKIFNTNWLWISLGAVKRLQEQAIDM
 EIIVNPKTLDDGLNVIQLETAVGAAIKSFENSLGINVPRSRFLPVKTTSDLLLVMNLYSLNAGSLT
 MSE KREFPTVPLVKLGSSFTKVQDYLRREFESIPDMLDLH TVSGDVTFGKNVSLKGTVIIIANHGDRID
 IPP GAVLENKIVSGLRILDH

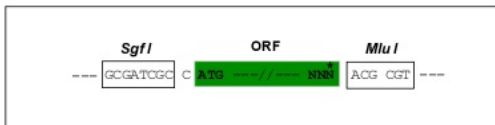
TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



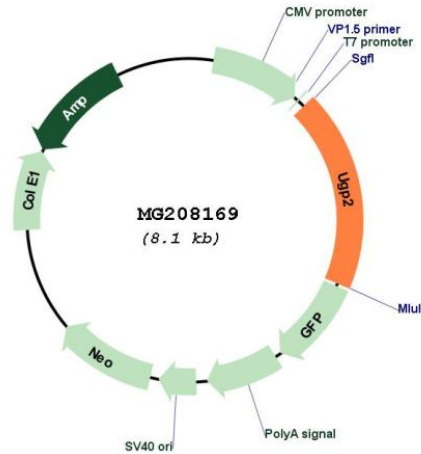
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                                     Kozac
                                     Consensus
                               EcoRI   BamHI KpnI   RBS       Sgf I       Asc I
          CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGGCCAGATCT

          Hind III   Nhe I   Rsr II   Mlu I       Not I       Xho I       GFP Tag
          CAAGCTTAAGTCTAGCTAGCGGACCG   ACG CGT   ACG CGG   CCG CTC GAG   ATG GAG AGC GAC --- ---
                                      T   R   T   R   P   L   E   M   E   S   D   -   -   -

          --- --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT
          - - - E E R V Stop
    
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Plasmid Map:



ACCN: NM_139297

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_139297.6](#)

RefSeq Size: 3097 bp

RefSeq ORF: 1527 bp

Locus ID: 216558

UniProt ID: [Q91ZJ5](#)

Cytogenetics: 11 13.89 cM

Gene Summary: Plays a central role as a glucosyl donor in cellular metabolic pathways.[UniProtKB/Swiss-Prot Function]