

Product datasheet for **MG207977**

Ugp2 (BC025585) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ugp2 (BC025585) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ugp2
Synonyms:	MGC38262
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207977 representing BC025585
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCTCAAGATGGTCTTCTCAGTTCCAAGAGGTCATTCTCCAAGAAGTCTCTCAAGAACTAGAATTATCTGTGAAGAAAG
 AATTAGAAAAAACTTACCACAGCAGCCTCACATGAGTTTGGACACACTAAAAAGATCTTGATGGATT
 TCGGAAGCTATTTTCATAGATTTTTGCAAGAAAAGGACCGTCTGTGGACTGGGGTAAAATCCAGAGACCT
 CCAGAAGATTCGATTCAACCCTATGAAAAGATAAAAGCCAGAGGCTTGCCTGATAACATATCTTCTGTGT
 TGAACAAGTTGGTGGTAGTGAACTCAATGGTGGTTTGGGAACCAGCATGGGCTGCAAAGGCCCTAAAAG
 TCTGATTGGTGAAGAAATGAGAACACCTTTTTGGATCTAACTGTTTCAAGAAATGAACATTTGAACAAA
 ACCTATAATACAGATGTTCTCTCGTTTTAATGAATTCTTTAACACGGATGAAGATACCAAAAAAATAC
 TCCAGAAGTACAATCACTGTCGTGTGAAAATCTACACCTCAATCAAAGCAGGTACCGAGGATCAATAA
 GGATCTCTACTTCTATAGCAAAGGATGTGTCTTATTAGGGGAAAATACTGAAGCTTGGTACCCTCCA
 GGCATGGAGATATCTATGCTAGTTTCTACAATCTGGCTTGGCTCGATACCTTTATAGAAGAAGGCAAAG
 AGTATATTTTTGTGTCTAACATAGATAATCTGGGTGCCACAGTGGATCTTTATATTTCTTAATCACCTGAT
 GAACCCACCCAATGGGAAGCGCTGTGAGTTTGTGCATGGAAGTCAACAAAACACGAGCAGATGTTAAG
 GGTGGGACACTCACTCAGTATGAAGGCAAACTGAGACTGGTGGAAATCGCTCAAGTGCCCAAAGCACACG
 TTGATGAGTTCAAGTCTGTGTCAAAATTTAAAATTTAACACAAAACACCTATGGATTTCTCTGGAGC
 AGTTAAAAGACTTCAGGAACAGAATGCCATTGACATGGAATCATTGTGAATCCAAGACATTGGATGGA
 GGCCTGAATGTAATTCAGTTAGAACTGCAGTTGGAGCTGCAATAAAAGTTTCGAGAATCTTTAGGTA
 TTAATGTTCCAAGGAGTCTTTTTCTGCCTGTGAAAACCATCAGATCTTTGCTTGTGATGCAAACT
 CTATAGCCTTAACGCAGGATCTCTGACCATGAGTGAAGGCGTGAATCCCTACAGTGCCCTTGGTTAAA
 TTAGGCAGTTCTTTACCAAGGTTCAAGATTATCTAAGAAGGTTTGAAGTATACCCGATATGCTGGAAC
 TGGACCACCTCACTGTTTCAGGAGATGTGACATTTGGAAAAATGTTTCACTAAAGGGAACAGTTATTAT
 TATTGCAATCATGGTGACAGAATTGACATCCCCCAGGAGCCGTGTAGAGAACAAGATTGTATCTGGA
 AACCTTCGGATCCTGGATCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

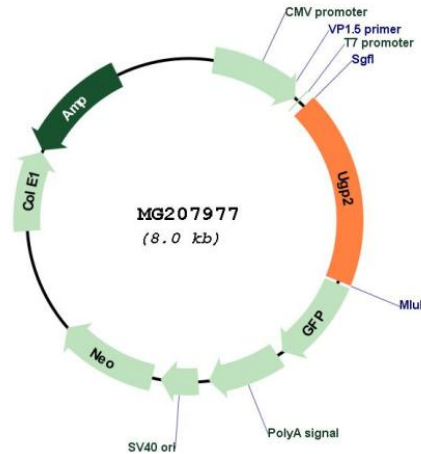
>MG207977 representing BC025585
 Red=Cloning site Green=Tags(s)

MSQDGASQFQEVILQELELSVKKELEKILTTAASHEFEHTKKDLDFRKLFRFLQEKGPSVDWGKIQRP
 PEDSIQPYEKIKARGLPDNISSVLNKL VVVKLNGGLGTSMGCKGPKSLIGVRNENTFLDLTVQQIEHLNK
 TYNTDVLVLMNSFNTEDETKKILQKYNHCRVKIYTFNQSRYPYRINKESLLPIAKDVSYSGENTEAWYPP
 GHGDIYASFYNSGLLDTFIEEGKEYIFVSNIDNLGATVDLYILNHLMNPPNGKRCEFMVEVTNKTRADV
 GGTLTQYEGKRLRVEIAQVPAHVDEFKSVSKFKIFNTNWLWISLGAVKRLQEQNAIDMEIIVNPKTLDG
 GLNVIQLETAVGAAIKSFENSLGINVPRSRFLPVKTTSDLLLVMNLYSLNAGSLTMSEKREFPTVPLVK
 LGSSFTKVQDYLRRFESIPDMLDHLTVSGDVTFGKNVSLKGTVIIIANHGDRIDIPPGAVLENKIVSG
 NLRILDH

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Plasmid Map:


ACCN: BC025585

ORF Size: 1493 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: [BC025585](#), [AAH25585](#)

RefSeq Size: 2069 bp

RefSeq ORF: 1493 bp

Locus ID: 216558

Cytogenetics: 11 13.89 cM

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