

## Product datasheet for **MR208347**

### Uap1 (BC017547) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Uap1 (BC017547) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Uap1
Synonyms:	AGX-1, AGX-2, AgX, AGX1, SPAG2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR208347 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAATGTCAATGACCTCAAACAAGGCTGTCCCAAGCTGGCAAGAGCACCTGCTGCAGTTCTGGAATG  
 AGCTGTCCGAAGCCAGCAGGTAGAACTTTATATGGAGCTCCAGGCCATGAACTTTGAAGAGCTGAACTC  
 CTTTTCCGAAGGCCATTGGTGAATTTGATCGATCCTCTCACCAGAAAAGGTGGACGCACGAATGGAG  
 CCTGTGCCCGGCAGGTTTTGGGCACTGCTACCAGAGATCAAGAGCAGCTGCAGGCCTGGAAAAGTGAAG  
 GACTTTCTCAGATTTCTCAAACAAGTAGCAGTTCTTCTTAGCTGGTGGCAGGGGACAAGACTTGG  
 AGTCTCATATCCCAAGGCATGTATGATGTTGGCTTGCCATCCCACAAGACGCTTTTTCAGATCAAGCA  
 GAACGTATTCTGAACTCCAGCAGTTAGCTGAAAAACCCATGGCAACAAGTGCACCATCCCATGGTATA  
 TAATGACCAGCGCAGAACAATGGAATCAACGAAGGAGTCTTCCAAAGCACAAGTTCTTTGGTTTAAA  
 AAAGGAGAAGCTGGTGTTTTTCCAGCAGGGAATGCTGCCTGCTATGAGTTTTGATGGGAAAATTATCTTG  
 GAAGAGAAAAACAAGTTTCTATGGCTCCAGATGGGAATGGTGGTCTCTACCGGGCTCTTGAGCCCAA  
 ACATTGTGGAGGACATGGAGCAAAGAGGCATCTGCAGTATTCATGTCTATTGTGTGGACAACATATTGGT  
 AAAAGTGGCGGACCCACGGTTCATTGGATTCTGCATTAGAAAAGGAGCAGACTGTGGGGCAAAGTGGTA  
 GAGAAAACGAATCCACAGAGCCAGTTGGAGTGGTTTCCCGGGTGGATGGAGTATACCAGGTGGTAGAAT  
 ACAGCGAGATCTCTGGCAACAGCTCAAAGGCGAAGTTCAGATGGACGGCTGCTGTTCAATGCAGGGAA  
 CATTGCCAATCACTTCTCACTGTCCCCTTCTGAAAGATGTTGTCAATGTTATGAACCTCAGTTGCAG  
 CACCATGTGGCTCAAAGAAGATTCATATGTGGACTCCAGGGTACTTCATTAAGCCAGACAAGCCAA  
 ATGGAATAAAGATGGAAAAATTTGTCTTTGACATCTTCCAGTTTGCAAAGAAGTTTGTGGTATGAAGT  
 ATTACGGGAAGATGAGTTTTCCCGCTCAAGAATGCAGACAGTCAAGACGGGAAGGACAACCCGACCACG  
 GCAAGGCATGCTTTGATGTCCTTACCCTGCTGGTCTCAATGCCGGGGGACACTTCATAGATGAGA  
 ATGGCTCTCGCTCCAGCCATCCCCGTGCTACAAATGGAAAAGTCAAGAGCCATCACAGCTGATGCA  
 TCACAACCTGAAAGATGCCAATGATGTACCGATCCAGTGTGAAATCTCTCCCTCATCTTATGCTGGA  
 GAGGGTCTTGAAGTTATGTGGCAGATAAAGAGTTCATGCACCGTTAATCATCGATGAGAATGGAGTTC  
 ATGAGCTGGTAAAAATGGCATA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208347 protein sequence  
 Red=Cloning site Green=Tags(s)

MNVNDLKQRLSQAGQEHLQFWNELSEAQQVELYMELQAMNFEELNSFFRKAIGEFDRSSHQEKVDARME  
 PVPQRVLGSATRDQEQQLQAWESEGLSQISQNKVAVLLLAGGQGTRLGVSYPKGMVDVGLPSHKTLFQIQ  
 ERILKLQQLAEKHGKCTIPWYIMTSGRMTSTKEFFTKHKFFGLKKENVVFFQQGMLPAMSFQDKIIL  
 EEKNKVSMPDNGGLYRALAAQNIVEDMEQRGICSIHVYVDNILVKVADPRFIGFCIQKGADCGAKVV  
 EKTNPTEPVGVCRVDGVYQVVEYSEISLATAQRRSSDGRLLFNAGNIANHFFVFPFLKDVVNVYEPQLQ  
 HHVAQKKIPYVDSQGYFIKDPKNGIKMEKVFDFIQFQAKKFVVEVLEDEFSPKLNADSQNGKDNPTT  
 ARHALMSLHHCWVNLNAGGHFIDENGSRPAIPRATNGKSEAITADVNHNLKDANDVPIQCEISPLISYAG  
 EGLEGYVADKEFHAPLIIDENGVELVKNGI

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** BC017547

**ORF Size:** 1563 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:** [BC017547](#), [AAH17547](#)

**RefSeq Size:** 2139 bp

**RefSeq ORF:** 1565 bp

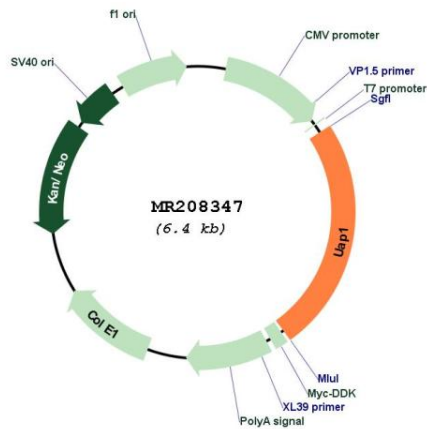
**Locus ID:** 107652

**Cytogenetics:** 1 H3

MW: 58.5 kDa

Gene Summary: Converts UTP and GlcNAc-1-P into UDP-GlcNAc, and UTP and GalNAc-1-P into UDP-GalNAc. Isoform AGX1 has 2 to 3 times higher activity towards GalNAc-1-P, while isoform AGX2 has 8 times more activity towards GlcNAc-1-P (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR208347