

Product datasheet for **MG208347**

Uap1 (BC017547) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Uap1 (BC017547) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Uap1
Synonyms:	AGX-1, AGX-2, AgX, AGX1, SPAG2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208347 representing BC017547
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATGTCAATGACCTCAAACAAGGCTGTCCCAAGCTGGCAAGAGCACCTGCTGCAGTTCTGGAATG
 AGCTGTCCGAAGCCAGCAGGTAGAACTTTATATGGAGCTCCAGGCCATGAACTTTGAAGAGCTGAACTC
 CTTTTCCGAAGGCCATTGGTGAATTTGATCGATCCTCTCACCAGAAAAGGTGGACGCACGAATGGAG
 CCTGTGCCCGGCAGGTTTTGGGCACTGCTACCAGAGATCAAGAGCAGCTGCAGGCCTGGGAAAGTGAAG
 GACTTTCTCAGATTTCTCAAACAAGTAGCAGTTCTTCTTAGCTGGTGGCAGGGGACAAGACTTGG
 AGTCTCATATCCCAAGGCATGTATGATGTTGGCTTGCCATCCCACAAGACGCTTTTTCAGATCAAGCA
 GAACGTATTCTGAACTCCAGCAGTTAGCTGAAAAACCCATGGCAACAAGTGCACCATCCCATGGTATA
 TAATGACCAGCGCAGAACAAATGGAATCAACGAAGGAGTCTTCCAAAGCACAAGTTCTTTGGTTTAAA
 AAAGGAGAACGTGGTGTTTTTCCAGCAGGGAATGCTGCCTGCTATGAGTTTTGATGGGAAAATTATCTTG
 GAAGAGAAAAACAAAGTTTCTATGGCTCCAGATGGGAATGGTGGTCTCTACCGGGCTCTGCAGCCAAA
 ACATTGTGGAGGACATGGAGCAAAGAGGCATCTGCAGTATTCATGTCTATTGTGTGGACAACATATTGGT
 AAAAGTGGCGGACCCACGGTTCATTGGATTCTGCATTAGAAAAGGAGCAGACTGTGGGGCAAAGTGGTA
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 ACAGCGAGATCTCTGGCAACAGCTCAAAGGCGAAGTTCAGATGGACGGCTGCTGTTCAATGCAGGGAA
 CATTGCCAATCACTTCTCACTGTCCCCTTCTGAAAGATGTTGTCAATGTTTGAACCTCAGTTGCAG
 CACCATGTGGCTCAAAGAAGATTCATATGTGGACTCCCAGGGTACTTCATTAAGCCAGACAAGCCAA
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 ATGGCTCTCGCTCCCAGCCATCCCCGTGCTACAAATGGAAGTCAAGAGCCATCACAGCTGATGTCAA
 TCACAACCTGAAAGATGCCAATGATGTACCGATCCAGTGTGAAATCTCTCCCTCATCTTATGCTGGA
 GAGGGTCTTGAAGTTATGTGGCAGATAAAGAGTTCATGCACCGTTAATCATCGATGAGAATGGAGTTC
 ATGAGCTGGTAAAAATGGCATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208347 representing BC017547
 Red=Cloning site Green=Tags(s)

MNVNDLKQRLSQAGQEHLQFWNELSEAQQVELYMELQAMNFEELNSFFRKAIGEFDRSSHQEKVDARME
 PVPRQVLGSATRDQEQQLQAWSEGLSQISQNKVAVLLLAGGQGTRLGVSYPKGMVDVGLPSHKTFLQIQIA
 ERILKLQQLAEKHHGNKCTIPWYIMTSGRTMESTKEFFTKHKFFGLKKENVVFFQQGMLPAMSFDKIIL
 EEKNKVSMPDNGGLYRALAAQNIIVEDMEQRGICSIHVYCVDNILVKVADPRFIGFCIQKGADCGAKVV
 EKTNPTEPVGVVCRVDGVYQVVEYSEISLATAQRRSSDGRLLFNAGNIANHFFTVPFKDVVNVYEPQLQ
 HHVAQKKIPYVDSQGYFIKPKPNGIKMEKFVDFIQFAKKFVYVEVLRDEFSPLNKADSQNGKDNPTT
 ARHALMSLHHCWVLNAGGHFIDENGSRPAIPRATNGKSEAITADVNHNLKDANDVPIQCEISPLISYAG
 ELEGYVADKEFHAPLIIDENGVELVKNGI

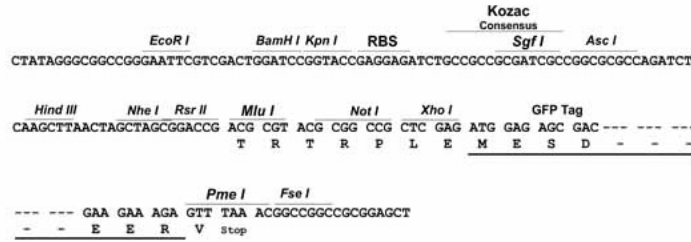
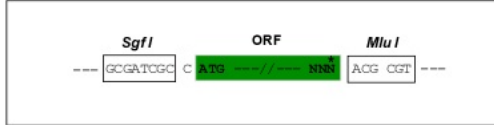
TRTRPLE - GFP Tag - V

Restriction Sites:

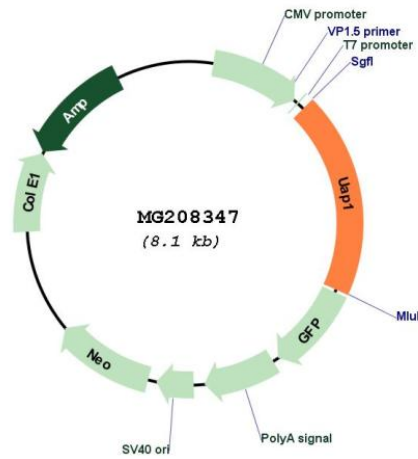
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	BC017547
ORF Size:	1565 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:	<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:	BC017547 , AAH17547
RefSeq Size:	2139 bp
RefSeq ORF:	1565 bp
Locus ID:	107652
Cytogenetics:	1 H3
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]