

Product datasheet for **RG227100**

ALG5 (NM_001142364) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ALG5 (NM_001142364) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: ALG5
Synonyms: bA421P11.2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG227100 representing NM_001142364
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTCCGTTCTGTTGCAGCTGGCGGTGCTCGGCGGGCGCTGGCGGCCGAGCCCTCGTACTGATTT
 CCATCGTTGCATTTACAACCTGCTACAAAATGCCAGCACTCCATCGACATGAAGAAGAGAAATCTTCTT
 AAATGCCAAAGGCCAGAAAGAACTTTACCCAGCATATGGGACTCACCTACCAACAACCTTTCTGTCGTT
 GTGCCTTCATACAATGAAGAAAAACGGTTCCTGTGATGATGGATGAAGCTCTGAGCTATCTAGAGAAGA
 GACAGAAATATGGAAGTGACAAAGTACGTGTGATAACCCTGGTGAAGAATCGTGGAAAAGGTGGAGCGAT
 TAGAATGGGTATATTCAGTTCTCGAGGAGAAAAGATCCTTATGGCAGATGCTGATGGAGCCACAAAGTTT
 CCAGATGTTGAGAAATTAGAAAAGGGGCTAAATGATCTACAGCCTTGGCCTAATCAAATGGCTATAGCAT
 GTGGATCTCGAGCTCATTTAGAAAAGAATCAATTGCTCAGCGTCTTACTTCCGTACTCTTCTCATGTA
 TGGGTTCCACTTTCTGGTGTGGTTCTTTGTGTCAAAGGAATCAGGGACACACAGTGTGGTTCAAATTA
 TTTACTCGAGAAGCAGCTTCACGGACGTTTTTCACTCTACACGTTGAACGATGGGCATTTGATGTAGAAC
 TACTGTACATAGCACAGTTCTTTAAAATCCAATAGCAGAAATGCTGTCAACTGGACAGAAATGAAGG
 TTCTAAATTAGTCCATTCTGGAGCTGGCTACAAATGGGTAAGACCTACTTTTTATACGACTTCGATAT
 TTGACTGGTGCCTGGAGGCTTGAGCAAACCTCGAAAAATGAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG227100 representing NM_001142364
 Red=Cloning site Green=Tags(s)

MAPLLLQLAVLGAALAAAALVLISIVAFTTATKMPALHRHEEEKFFLNAKGQKETLPSIWDSPTKQLSVV
 VPSYNEEKRLPVMMDEALSYLEKRQKYGSDKVRVITLVKNRGGKGAIRMGIFSSRGEKILMADADGATKF
 PDVEKLEKGLNDLQPWPNQMAIACGSRAHLEKESIAQRSYFRTLLMYGFHFLVWFLCVKGIKRDTCQGFKL
 FTREASRTFSSLHVERWAFDVELLYIAQFFKIPAEIAVNWTEIEGSKLVPFWSWLQMGKDLLFIRLRY
 LTGAWRLEQTRKMN

TRTRPLE - GFP Tag - V

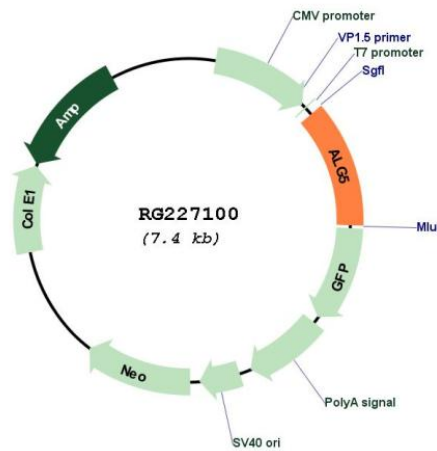
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001142364

ORF Size: 882 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:	NM_001142364.1 , NP_001135836.1
RefSeq Size:	1137 bp
RefSeq ORF:	885 bp
Locus ID:	29880
UniProt ID:	Q9Y673
Cytogenetics:	13q13.3
Protein Families:	Transmembrane
Protein Pathways:	Metabolic pathways, N-Glycan biosynthesis
Gene Summary:	This gene encodes a member of the glycosyltransferase 2 family. The encoded protein participates in glucosylation of the oligomannose core in N-linked glycosylation of proteins. The addition of glucose residues to the oligomannose core is necessary to ensure substrate recognition, and therefore, effectual transfer of the oligomannose core to the nascent glycoproteins. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2008]