

Product datasheet for **MG208441**

Alg8 (NM_199035) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Alg8 (NM_199035) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Alg8
Synonyms:	AI447372; Gm1089
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208441 representing NM_199035
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGCGTCCGGTCTGCAACCGCTGGTGGCCATTGGTTCTCTGCTTTGGCTCTTGGGGTACTCTCC
 TTAAGTGCCTTCTCATCCCCACCTACCATTCCACGGATTTTGAAGTACACCGAAAATTGGCTTGAATCAC
 TCACAGCCTCCCAATATCTCAGTGGTATTATGAGGCAACTTCAGAGTGGACCTTGGATTACCCCCCTTT
 TTTGCATGGTTTGAAGTACGCCTTATCACATATTGCCAAATACTTTGATCAAGAGATGCTCAATATTCATA
 ACCTGAACTATTACAGTCAAGGACATTGCTTTCCAGAGGTTTCTGTTCATCTTGACAGATGCACTCTT
 TGTGTATGCTGTCCATGAGTGTGTAATGCATTGATGGAAAAAGAACAGGCAAAGACCTCACAGAGAAA
 CCAAAGTTTATTCTGTCGGTCTCCTGCTGTGAACTTTGGGTTGTTAATTGTAGACCATATTCATTTTC
 AGTACAATGGCTTCTGCTGGATTACTGCTGTTGCCATTGCACGTCTATTTCCAGAAAAGGCACATTGA
 AGGGCGTTGCTCTTTGCTGTCCCTCCTCCATCTCAAGCACATCTACCTATATGTGGCACCAGCCTATGGT
 GTCTATCTGCTGCGGTCTACTGCTTCACTGCAAGTAAACCAGATGGCAGTGTCCGTTGGAGCAGCTTCA
 GCGTTGTCGCGTTACTTCCCTGGGGCTGATCGTGTTCCTAGTTTCTGCTCTTTCGTTGGGCCCTTCTCT
 AGCCTTGAACAGCTGCCACAAGTCTTTTCCGACTCTTCTCTTCAAGAGGGGCCCTTGGCCATGCCTAC
 TGGGCTCCAAACTTCTGGGCTTTGTACAATGCTTTGGACAAAGTACTGTCTGTAATTGGTTTGAATTTGA
 AGCTTCTTGACCCAGCCAGATCCCCAGGGCCTCAATGACAAGTGGTTGGTTTCAGCAGTCCAGCACAC
 AGTCTTCCCTCAGTTTCCCTTTGGCAACCCTCATCTGCACACTGATAGCCATATTGCCCTCTGTTTTCT
 TGTCTTTGGTTTAAACCCCAAGGGCCCAGAGGCTTCTCCGATGCCTGGTTCTTTGTGCCTTGGATTCT
 TCATGTTGGGTGGCATGTCCATGAGAAAGCCATACTCCTTGGCATTCTCCAATGAGCCTGTTGTCTGT
 GGAAAAAGCAGGAGATGCGACAGTTTTTCTGATTCTGGCGACAACAGGACACTATTCCTCTTCCCCTG
 CTCTTCACTGCACCAGAACTTCCATTAATACTTACTCATGTTACTGTTACGTTTATAGTATTTCTCT
 CACTGAAGACACTATTCAGAAAAGAAAACCTCTTTTAAATTGGATGGAAACTGTGTACCTCCTTGGCCT
 GGGCCTCTGGAAGTCTGCTGTGAATCCTACTCCCGTTTACCTCCTGGAAGCTGAAGTACCCCTTCATC
 CCTTTGCTGCTGACCTCGGTGTACTGTGCAGTGGGCATCACATACGCTGGACCAGGCTGTATGCTTCAG
 TGTTGACTGGCTCCCTTGTGACGAAGACAAAGAAACAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208441 representing NM_199035
 Red=Cloning site Green=Tags(s)

MAASGSATAGGHWSALALGVTLKCLLIPTYHSTDFEVHRNWLAIHSLPISQWYWEATSEWTLDYPPF
 FAWFEYALSHIAKYFDQEMLNHNLYSSRTLLFQRFVILTDALFVYAVHECCKCIDGKRTGKDLTEK
 PKFILSVLLLWNFGLLIVDHIHFQYNGFLSGLLLLSIARLFQKRHIEGALLFAVLLHLKHLYLVAPAYG
 VYLLRSYCF TASKPDGSRWSSFSVVRVTSGLIVFLVSALSLGPFLALNQLPQVFSRFPFKRGLCHAY
 WAPNFWALYNALDKVLSVIGLKLKLLDPSQIPRASMTSGLVQQFQHTVLPSPVPLATLICTLIAILPSVF
 CLWFKPQGPGRFLRCLVLCALSSFMFGWHVHEKAILLAAILPMSLLSVEKAGDATVFLILATTGHYSFLPL
 LFTAPELPKILLMLLFTVYSISSLKTFRKEKPLFNWMETVYLLGLPLEVCCEFLLPFTSWLKYFFI
 PLLLTSVYCAVGITYAWTRLYASVLTGSLVSKTKKH

TRTRPLE - GFP Tag - V

Restriction Sites:

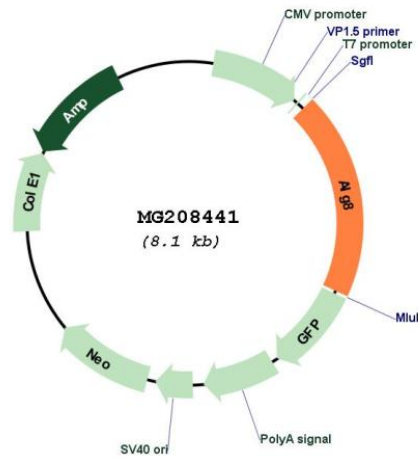
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_199035
ORF Size:	1578 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_199035.2 , NP_950200.2
RefSeq Size:	2002 bp
RefSeq ORF:	1581 bp
Locus ID:	381903
UniProt ID:	Q6P8H8
Cytogenetics:	7 E1
Gene Summary:	Adds the second glucose residue to the lipid-linked oligosaccharide precursor for N-linked glycosylation. Transfers glucose from dolichyl phosphate glucose (Dol-P-Glc) onto the lipid-linked oligosaccharide Glc(1)Man(9)GlcNAc(2)-PP-Dol before it is transferred to the nascent peptide (By similarity). Required for PKD1/Polycystin-1 maturation and localization to the plasma membrane of the primary cilia (PubMed:28375157).[UniProtKB/Swiss-Prot Function]