

Product datasheet for **SC122883**

ALG1 (NM_019109) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALG1 (NM_019109) Human Untagged Clone
Tag:	Tag Free
Symbol:	ALG1
Synonyms:	CDG1K; hMat-1; HMAT1; HMT-1; HMT1; Mat-1; MT-1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_019109 edited
ACTGCTGCGGGCCAGCCAAGATGGCGGCCTCATGCTTGGTCTGTGCTGGCCTGTGTCTGC
TGCTGCCGCTGTCTGTCTGGGAGGATGGAAGCGCTGGCGCCGGGGGCGGGCGGCCCGGC
ATGTAGTAGCGGTGGTGTCTGGGCGACGTGGGCCGAGCCCCCGTATGCAGTACCACGCGC
TGTCGTTGGCCATGCACGGCTTCTCGGTGACCCCTCTGGGGTTCTGCAACTCCAAACCC
ATGATGAGCTCTTGCAACAACAGAATTTCAGATTGTGGGGTTGACAGAACTTCAGAGTC
TTGCAGTTGGCCCCGAGTTTTCCAGTACGGAGTCAAAGTTGTACTTCAGGCTATGTACT
TGCTGTGGAAGTTGATGTGGAGGGAGCCAGGTGCCTATATCTTTCTCCAGAACCCCCAG
GTCTGCCTAGCATTGCTGTCTGTGTTCTGTGGCTGCCTTTGTGGAAGCAAGCTCGTCA
TTGACTGGCACAACATATGGTACTCCATCATGGGTCTGGTGCATGGCCCCAACCATCCCC
TCGTTCTGCTGGCCAAGTGGTACGAGAAGTTCTTTGGGCGCTGTCCACCTGAACCTGT
GTGTTACCAATGCTATGCGAGAAGACCTGGCGGATAACTGGCACATCAGGGCTGTGACCG
TCTACGACAAGCCGCATCTTTCTTTAAAGAGACACCTCTGGACCTGCAGCACCGGCTCT
TCATGAAGCTGGCAGCATGCACTCTCCGTTACGGCCCCGCTCAGAACCTGAGGACCCAG
TCACGGAGCGGTGGCCCTCACGGAGCGGGATGCTGGGAGCGGGTGGTACGCGTCTCC
GTGAGCGGCCAGCCCTGCTGGTACGAGCAGAGCTGGACAGAGGACGAAGACTTCTCCA
TCCTGCTGGCAGCTTTAGAAAAGTTTGAACAACACTGACTTTGATGGACACAACCTTCCTT
CTCTGCTGTGTGATAACAGGCAAAGGGCCTATGAGGGAGTATTATAGCCGCTCATCC
ACCAGAAGCACTTCCAGCACATCCAGGTCTGCACCCCTGGTGGAGGCCGAGGACTACC
CCCTGCTTCTAGGGTGGCGGACCTGGGTGTCTGTCTGCACACGTCTCCAGTGGCCTGG
ACCTGCCCATGAAGTGGTGGACATGTTTCGGGTGCTGTTGCCTGTGTGTGTGTAAC
AGGAACTGGCAGCTCAGCTGCAGATGCTTTTCTAAACTTTCCTGATCCTGCGGGCAAGC
TAAACCAGTTCGGAAGAACCTGCGGGAGTCGCAGCAGCTCCGATGGGATGAGAGCTGGG
TGGGACTGTGCTCCCTTTGGTTATGGACACATAACTCCTGGGCCAGAGGCTATAAAACC
CCAGGACCCCTGCTGTCTTCCCGCAGCTTCTTCTGGAGTCTCAGGGCAAACCTTTTCG
AGCAGCACCTCCAGTGGCCAGAAGCTGAAATGACAGCAGTGGTACTACCTGGTAAAAGA
ATTGGTCTGTGACCCGGGAAGCTTTGGTTGGCCTTGATTTCTTCTGAGGCTTGAA
ACGTTCTCTCTTCTTCTTCTTCTCACGCCCCATGCCCTGCTAGCGTATTACTGTTCT
GTGACTTCCCTGTGACCTCTGCAGAACTCCTCATCCTGCGTTTGGTCTCCAGGTGTCCC
TTTCTGCCGTGTTCTTAACATTTGATTCTGTCTTGAAGAAAGCACCTGCTGCACCGTA
AGCCCAGGGATGTGGCAGCTGCAGTGGGCTTGGCTTTGTGAGGAACTGAGTGTGTCCACG
TTGGGGGAACATCATACTTGATACACACGTTTTTATTTGCACAAAGAAAATGCTATTTTT
GGAGCCAGAATTTTCATGTCTGATTTATGGTGATTTTCTTAAGAACCAGAAGTGTGGCA
GAAAGGGGGCACCCACACGCTTAGATAGCCGATGCTTATTAGAGGGCAGTTTGTGGTTC
CTGATTTGGAAATTAACATTTCTCCAAACATTCAGTCCAATGAAAGTTTTATCCGCTTTC
CCATATAAAAATTTCTCCACGAAAAAAAAAAAAAAAAAAAA
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_019109 unedited NNGGAGTTCACATTTGTATACGACTCATATAGGCGGCCGCATAACTTCGTATAGCATACA TTATACGAAGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTGCGAGAGCGGACTG CTGCGGGCCAGCAAGATGGCGGCCCTCATGCTTGGTCCTGCTGGCGCTGTGTCTGCTGCT GCCGCTGCTGCTGCTGGGAGGATGGAAGCGCTGGCGCCGGGGCGGGCGGCCCGGCATGT AGTAGCCGTGGTCTGGGCGACGTGGGCCGAGCCCCGTATGCAGTACCACGCGCTGTC GTTGGCCATGCACGGCTTCTCGGTGACCCTCCTGGGGTTCTGCAACTCCAAACCCCATGA TGAGCTCTTGACAACAACAGAATTCAGATTGTGGGGTTGACAGAACTTCAGAGTCTTGC AGTTGGGCCCCGAGTTTTCCAGTACGGAGTCAAAGTTGTACTTCAGGCTATGTACTTGCT GTGGAAGTTGATGTGGAGGGAGCCAGGTGCCTATATCTTTCTCCAGAACCCCCAGGTCT GCCTAGCATTGCTGTCTGCTGGTTCGTGGGCTGCCTTTGTGGAAGCAAGCTCGTCATTGA CTGGCACAACTATGGCTACTCCATCATGGGTCTGGTGCATGGCCCAACCATCCCCTCGT TCTGCTGGCCAAGTGGTACGAGAAGTTCTTTGGGCGCTGTCCACCTGAACCTGTGTGT TACCAATGCTATGCGAGAAGACCTGGCGGATAACTGGCACATCAAGGCTGTGACCGTCTA CGACAAGCCGCATCTTTCTTAAGAGACACCTCTGGACTGCAGCACCGGCTCTTCATGAG CTGGGCANCATGCACTCTCCGTTCCAGGGCCCGCTAG
Restriction Sites:	Please inquire
ACCN:	NM_019109
Insert Size:	2100 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_019109.3</u> , <u>NP_061982.3</u>
RefSeq Size:	2149 bp
RefSeq ORF:	1395 bp
Locus ID:	56052
UniProt ID:	<u>Q9BT22</u>
Cytogenetics:	16p13.3

Protein Families:	Transmembrane
Protein Pathways:	Metabolic pathways, N-Glycan biosynthesis
Gene Summary:	<p>The enzyme encoded by this gene catalyzes the first mannosylation step in the biosynthesis of lipid-linked oligosaccharides. This gene is mutated in congenital disorder of glycosylation type Ik. [provided by RefSeq, Dec 2008]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>