

Product datasheet for **SC115292**

ALG6 (NM_013339) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALG6 (NM_013339) Human Untagged Clone
Tag:	Tag Free
Symbol:	ALG6
Synonyms:	CDG1C
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF within SC115292 sequence for NM_013339 edited (data generated by NextGen Sequencing)

```

ATGGAGAAATGGTACTTGATGACAGTAGTGGTTTTAATAGGACTAACAGTACGATGGACA
GTGTCTCTTAATTCTTATTCAGGTGCTGGTAAACCGCCTATGTTTGGTGATTATGAAGCT
CAGAGACACTGGCAAGAAATAACTTTTAAATTTACCGGTCAAACAATGGTATTTTAAACAGC
AGTGATAACAATTTACAGTATTGGGGATTGGATTACCCACCTCTTACAGCTTATCATAGT
CTCCTATGTGCATATGTGGCAAAGTTTATAAATCCAGACTGGATTGCTCTCCATACATCA
CGTGGATATGAGAGTCAGGCACATAAGCTCTTCATGCGTACAACAGTTTTAATTGCTGAT
CTGCTGATTTACATACCTGCAGTGGTTTTGTACTGTTGTTGCTTAAAAGAAATCTCAACT
AAGAAAAAGATTGCTAATGCATTATGCATCTTGCTGTATCCAGGCCTTATTCTTATAGAC
TATGGACATTTTCAATATAATTCTGTGAGTCTTGGCTTTGCTTTGTGGGGTGTCTTGGGA
ATATCTTGTGACTGCGACCTCTAGGGTCACTGGCATTGTTGCTTAGCTATAAATTATAAA
CAGATGGAACCTTACCACGCCTTGCCATTTTTTGTCTTTTACTTGGCAAGTGTTTTAAA
AAAGCCCTCAAAGGAAAGGGTTTGTGTTGCTAGTTAAGCTAGCTTGTATTGTTGTGGCT
TCCTTCGTTCTCTGCTGGCTGCCATTCTTACAGAAAGGGAACAACCCCTGCAGGTTCTA
AGAAGACTCTTCCCGTTGATCGTGGATTATTTGAGGATAAAGTAGCCAATATTTGGTGC
AGCTTCAATGTCTTTCTGAAGATTAAGGATATTTGCCACGTCACATCCAATTAATAATG
AGCTTTTGTGTTTACGTTTTTGAGCCTGCTTCTGCATGCATAAAATTAATACTTCAGCCC
TCTTCCAAAGGATTCAAATTTACTGTTAGCTGTGCGCTATCATTCTTTTTATTTTCT
TTCCAAGTACATGAAAAATCCATTCTCTTGGTGTCACTACCAGTCTGCTTAGTTTTAAGT
GAAATTCCTTTTATGCTACTTGGTTTTACTTGTGTCAACATTTAGTATGCTACCTCTT
CTATTGAAGGATGAACCTCTAATGCCCTCTGTTGTGACAACAATGGCATTTTTTATAGCT
TGTGTAACCTTCTTTTCAATATTTGAAAAGACTCTGAAGAAGAACTGCAGTTGAAATCC
TTTTCCATTTCTGTGAGGAAATATCTTCCATGTTTTACATTTCTTCCAGAATTATACAA
TATTTGTTTCTTATCTCAGTCATCACTATGGTGTCTGACGTTGATGACTGTCACACTG
GATCCTCCTCAGAAACTACCGGACTTGTGTTTCTGTATTGGTGTGTTTGTATCTTGCTTG
AACTTCTGTTCTTCTTGGTATACTTTAACATTATTATTATGTGGGATCCAAAAGTGGGA
AGAAATCAGAAGAAAATCAGCTAG
    
```

Clone variation with respect to NM_013339.3
911 c=>t

5' Read Nucleotide Sequence:

```

>OriGene 5' read for NM_013339 unedited
NTTGTCCAGCATTGTATACGACTCACTATAGGCGGCCGCGAATTCGCCGAGCCCACGGCA
GGCGCGAATCCCAGCGCCGGCGGGCGGGGATACTTCTACATAGACATAATCAAGTT
TTGACTATTTGGAACCAAGCATCATTAAAATTTCTCAAACCTCCTAATTGCGAAGAATC
GATAACATTTCAAGAAGTGATAACATTTCTCTGAACAAGAAAAGAAGTATTGACCACGT
TTTTAAAAGTACTCTGGCACTGGTGTGTTTTCTTCCCCTCCCTAAATTTGAAGAACTA
TGGAGAAATGGTACTTGTATGACAGTAGTGGTTTTAATAGGACTAACAGTACGATGGACAG
TGTCTCTTAATCTTATTACAGGTGCTGGTAAACCGCCTATGTTTGGTGATTATGAAGCTC
AGAGACACTGGCAAGAAATAACTTTTAAATTTACCGGTCAAACAATGGTATTTTAAACGCA
GTGATAACAATTTACAGTATTGGGGATTGGATTACCCACCTCTTACAGCTTATCATAGTC
TCCTATGTGCATATGTGGCAAAGTTTATAAATCCAGACTGGATTGCTCTCCATACATCAC
GTGGATATGAGAGTCAGGCACATAAGCTCTTCATGCGTACAACAGTTTTAATTGCTGATC
TGCTGATTTACATACCTGCAGTGGTTNTGTACTGTTGTTGCTTANAAGAAATCTCAACTA
AGAAAAAGATTGCTAATGCATTATGCATCTTGCTGTATCCAGGCCTTATTCTTATAGACT
ATGGACATTNTCAATATAATTCTGTGAGTCTTGGCTNTGCTTGTGGNGTGGTTCTGGAA
TATCTTGTGACTGCGACCTNCTAGGGTCACTGGCATTNTGCTTAGCTATANNATATAACA
GATGGAACNTACCACGCT
    
```

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_013339 unedited GAACCGCGGGCCCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTGAATTTAAAGAAAA AACCTTTATTAAGGGGCAATATGTGATCCATTCCAATATTTTGAAATATTAATTTCA GTTATTCTGTGGTGTCTTCTGTCATCATCATGTTTTTGTGTCACTCCCAAAATAAAGGG GAGGAGGGAATCACAGAGTATGTTATCTTGATAGTAAACCTCTGCTTTTCTTGACCATT TCTGTAAGGAAAACCTACTCCTTTGGTACTTGCCCTAAGTTTTAACAAAATTAGTAGA AAATATTACCATGTCATTTGTATATATCATGAAAAATGAAAACTACATGAAAACTGAAA CAAAATATAACAAGTTAAGGTTGAAAAATTTCCACTGCGTGAATGGCACAAGCCTTTAA TCCCAGCTACTACTCTGGAGGCTGAAACAGGAGGATTGCTTGAGCCCAGGAGTTAAGAT CAGACTGGGCAACACAGCAAGACACCTATCTCAGAAAAAAGAAAATAATTCACTTTCCA CTTAGAGAAATTTAGATTACCTTTTTAAAAATGACAGGTTTTTAAAACTGTTACTATA AATTATATACATTACCTTACCTAATTATGCTCTTCATACTGTTTAAAGAAATATTCTGAT ACAGTGCTTATAATAGGATGTTACCCAAAATATACTANAAAAAGGATTATTATAGGCTTT GAAAACCTAACCTTACGTTATTAGCCAAAACATTTTTATAAAGTAATCTATGTTTATTCAC GTAATTACAGAGTTAAGAAAGAAAACCTGCCTTTCTATATAATTTCAAGCTATCTAGGGAT GTGGCTTATTGCTTCTAAACCCAGTTCTGGAATGTTTGACTTCTTGACAACCCAACTCT TAGCCTTTTTAAACCACTGGGGCCTTGGAACACCATTTCCCAATCTTTCTCGGACCA CAATCGTCCTCCCCTTTTAAACCTTGCCGGCGCTTGAAGGCAATCCCAACGACC
Restriction Sites:	NotI-NotI
ACCN:	NM_013339
Insert Size:	5130 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).
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_013339.2</u> , <u>NP_037471.2</u>
RefSeq Size:	2003 bp
RefSeq ORF:	1524 bp
Locus ID:	29929
UniProt ID:	<u>Q9Y672</u>
Cytogenetics:	1p31.3
Domains:	Alg6_Alg8

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Metabolic pathways, N-Glycan biosynthesis

Gene Summary: This gene encodes a member of the ALG6/ALG8 glucosyltransferase family. The encoded protein catalyzes the addition of the first glucose residue to the growing lipid-linked oligosaccharide precursor of N-linked glycosylation. Mutations in this gene are associated with congenital disorders of glycosylation type Ic. [provided by RefSeq, Jul 2008]