

Product datasheet for **SC300113**

AGL (NM_000645) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AGL (NM_000645) Human Untagged Clone
Tag:	Tag Free
Symbol:	AGL
Synonyms:	GDE
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_000645, the custom clone sequence may differ by one or more nucleotides

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ATGAGTTTATTAACATGTGCTTTTTATTTAGGGTATGAGCTACAGTTCGGATTAGGCCCA
ACTTTACAGGGAAAAGCAGTTACCGTGTATACAAATTACCCATTTCTGGAGAAACATTT
AATAGAGAAAAATTCGGTCTCTGGATTGGGAAAATCCAACAGAAAGAGAAGATGATTCT
GATAAATACTGTAACCTAATCTGCAACAATCTGGTTCATTTTCAGTATTATTTCTTCAA
GGAAATGAGAAAAGTGGTGGAGTTACATAGTTGTGGACCCCATTTACGTGTTGGTGCT
GATAATCATGTGCTACCCTTGGACTGTGTTACTCTTCAGACATTTTTAGCTAAGTGTGG
GGACCTTTTGATGAATGGGAAAGCAGACTTAGGGTTGCAAAGAATCAGGCTACAACATG
ATTCATTTTACCCCATTCAGACTCTTGGACTATCTAGGTCATGCTACTCCCTTGCCAAT
CAGTTAGAATTAATCCTGACTTTTCAAGACCTAATAGAAAATACCTGGAATGATGTT
GGACAGCTAGTGGAAAAATTAAGAAAGGAATGGAATGTTATTTGTATTACTGATGTTGTC
TACAATCATACTGCTGCTAATAGTAAATGGATCCAGGAACATCCAGAATGTGCCTATAAT
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TCCTGTGATGTTGCAGAAGGGAATACAAAGAAAAGGGAATACCTGCTTTGATTGAAAAT
GATCACCATATGAATCCATCCGAAAAATAATTTGGGAGGATATTTTTCCAAAGCTTAAA
CTCTGGGAATTTTTCCAAGTAGATGTCAACAAAGCGGTTGAGCAATTTAGAAGACTTCTT
ACACAAGAAAATAGGCGAGTAACCAAGTCTGATCCAAACCAACACCTTACGATTATTCAA
GATCCTGAATACAGACGGTTTGGCTGACTGTAGATATGAACATTGCACTAACGACTTTT
ATACCACATGACAAGGGGCCAGCAGCAATTGAAGAATGCTGTAATTGGTTTCATAAAAGA
ATGGAGGAATTAATTCAGAGAAGCATCGACTCATTAACATCATCAGGAACAGGCGAGTT
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CCTGCTACTAGAAAGCATCCTTTAGTTACCAGGATTTTTACTTTCCCATTTGAAGAGATA
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AGAGAGGCAATGAGTGCATATAATAGTCATGAAGAGGGCAGATTAGTTTACCGATATGGA

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GGAGAACCTGTTGGATCCTTTGTTTCAGCCCTGTTTGAGGCCTTTAATGCCAGCTATTGCA
 CATGCCCTGTTTATGGATATTACGCATGATAATGAGTGCCTATTGTGCATAGATCAGCG
 TATGATGCTCTTCCAAGTACTACAATTGTTTCTATGGCATGTTGTGCTAGTGGAAGTACA
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 ATCCCACGTTACCTTATCCCATGTTACTTTGATGCTATATTAATGGTGCATATACCACT
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 CTGCAGTGTATCCAGGATTACTGTAATAATGGTTCCAAATGGTCTAGACATTCTCAAGTGC
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 ACTGCAGGAGTTGATGAAGAAACAGGATTTGTTTATGGAGGAAATCGTTTCAATTGTGGC
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 CCAAGAGATGGTCTGCTGTGGAATTTGTTGGCCCTGAGTAAATCTGCTGTTGCTGGTTG
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 AAGGCTATAAAGGTCTCATATGATGAGTGAACAGAAAAATACAAGACAACCTTTGAAAAG
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 AAACGTGGCATATACAAAGATAGTTATGGAGCTTCAAGTCTTGGTGTGACTATCAGCTC
 AGGCCTAATTTTACCATAGCAATGGTTGTGGCCCTGAGCTCTTTACTACAGAAAAGCA
 TGGAAAGCTTTGGAGATTGCAGAAAAAATGCTTGGTCCCCTTGGCATGAAAACCTTTA
 GATCCAGATGATATGGTTTACTGTGGAATTTATGACAATGCATTAGACAATGACAACACTAC
 AATCTTGCTAAAGGTTTCAATTATCACCAAGGACCTGAGTGGCTGTGGCCTATTGGGTAT
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 AAAGGACTTCCAGAACTGACCAATGAGAATGCCAGTACTGTCCTTTTTCAGCTGTGAAACA
 CAAGCCTGGTCAATTGCTACTATTCTTGTGAGACACTTTATGATTTATAG

Restriction Sites:

Please inquire

ACCN:

NM_000645

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_000645.1</u> , <u>NP_000636.1</u>
RefSeq Size:	7180 bp
RefSeq ORF:	4548 bp
Locus ID:	178
Cytogenetics:	1p21.2
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Starch and sucrose metabolism
Gene Summary:	<p>This gene encodes the glycogen debrancher enzyme which is involved in glycogen degradation. This enzyme has two independent catalytic activities which occur at different sites on the protein: a 4-alpha-glucotransferase activity and a amylo-1,6-glucosidase activity. Mutations in this gene are associated with glycogen storage disease although a wide range of enzymatic and clinical variability occurs which may be due to tissue-specific alternative splicing. Alternatively spliced transcripts encoding different isoforms have been described. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (5) differs in the 5' UTR and coding region, compared to variant 4. The resulting protein (isoform 2) is shorter and has a distinct N-terminus, compared to isoform 1.</p>