

Product datasheet for **SC309055**

AGL (NM_000646) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AGL (NM_000646) Human Untagged Clone
Tag:	Tag Free
Symbol:	AGL
Synonyms:	GDE
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_000646, the custom clone sequence may differ by one or more nucleotides

```

ATGGCCCCAATTCTGAGCATTAATTTATTATTGGGTATGAGCTACAGTCCGATTAGGC
CCAACCTTTACAGGGAAAAGCAGTTACCGTGTATACAAATTACCCATTTCTGGAGAAACA
TTTAATAGAGAAAAATCCGTTCTCTGGATTGGGAAAAATCCAACAGAAAGAGAAGATGAT
TCTGATAAATACTGTAACCTAATCTGCAACAATCTGGTTCATTTTCAGTATTATTTCTT
CAAGGAAATGAGAAAAGTGGTGGAGTTACATAGTTGTGGACCCATTTTACGTGTTGGT
GCTGATAATCATGTGCTACCCTTGGACTGTGTTACTCTTCAGACATTTTTAGCTAAGTGT
TTGGGACCTTTTGATGAATGGGAAAGCAGACTTAGGGTTCAAAAGAATCAGGCTACAAC
ATGATTCATTTTACCCCATTCAGACTCTTGGACTATCTAGGTCATGCTACTCCCTTGCC
AATCAGTTAGAATTAATCCTGACTTTTCAAGACCTAATAGAAAGTATACCTGGAATGAT
GTTGGACAGCTAGTGGAAAAATAAAAAGGAATGGAATGTTATTTGTATTACTGATGTT
GTCTACAATCATACTGCTGCTAATAGTAAATGGATCCAGGAACATCCAGAATGTGCCTAT
AATCTTGTGAATTCTCCACACTTAAACCTGCCTGGGTCTTAGACAGAGCACTTTGGCGT
TTCTCCTGTGATGTTGCAGAAGGGAAATACAAAGAAAAGGGAATACCTGCTTTGATTGAA
AATGATCACCATATGAATCCATCCGAAAAATAATTTGGGAGGATATTTTTCCAAAGCTT
AAACTCTGGGAATTTTTCCAAGTAGATGTCAACAAAGCGGTTGAGCAATTTAGAAGACTT
CTTACACAAGAAAAATAGCGGAGTAACCAAGTCTGATCCAAACCAACACCTTACGATTATT
CAAGATCCTGAATACAGACGGTTTGGCTGTACTGTAGATATGAACATTGCACTAACGACT
TTCATACCACATGACAAGGGGCCAGCAGCAATTGAAGAATGCTGTAATTGGTTTCATAAA
AGAATGGAGGAATTAATTCAGAGAAGCATCGACTCATTAACTATCATCAGGAACAGGCA
GTTAATTGCCTTTTGGGAAATGTGTTTTATGAACGACTGGCTGGCCATGGTCCAAAACCTA
GGACCTGCTACTAGAAAGCATCCTTTAGTTACCAGGATTTTTACTTTCCATTTGAAGAG
ATAGACTTCTCCATGGAAGAATCTATGATTCATCTGCCAATAAAGCTTGTTTTCTGATG
GCACACAATGGATGGGTAAATGGGAGATGATCCTCTTCGAAACTTTGCTGAACCGGGTTCA
GAAGTTTACCTAAGGAGAGAACTTATTTGCTGGGAGACAGTGTAAATTACGCTATGGG
AATAAACCCAGAGGACTGTCTTATCTCTGGGCACACATGAAAAATACACTGAAATAACT
GCAACTTATTTCCAGGGAGTACGTCTTGATAACTGCCACTCAACACCTCTTCACGTAGCT
GAGTACATGTTGGATGCTGCTAGGAATTTGCAACCAATTTATATGTAGTAGCTGAACTG
TTCACAGGAAGTGAAGATCTGGACAATGTCTTTGTACTAGACTGGGCATTAGTTCCTTA
ATAAGAGAGGCAATGAGTGCATATAATAGTCATGAAGAGGGCAGATTAGTTTACCGATAT

```



[View online »](#)

GGAGGAGAACCTGTTGGATCCTTTGTTTCAGCCCTGTTTGAGGCCTTTAATGCCAGCTATT
GCATATGCCCTGTTTATGGATATTACGCATGATAATGAGTGCCTATTGTGCATAGATCA
CGGTATGATGCTCTTCCAAGTACTACAATTGTTTCTATGGCATGTTGTGCTAGTGGAAGT
ACAAGAGGCTATGATGAATTAGTGCCTCATCAGATTTTCAGTGGTTTCTGAAGAACGGTTT
TACACTAAGTGGAAATCCTGAAGCATTGCCTTCAAACACAGGTGAAGTTAATTTCCAAAGC
GGCATTATTGCAGCCAGGTGTGCTATCAGTAACTTTCATCAGGAGCTTGGAGCCAAGGGT
TTTATTTCAGGTGATGTGGATCAAGTTGATGAAGACATAGTGGCAGTAACAAGACTCA
CCTAGCATCCATCAGTCTGTTGTGGCTGTATCTAGAAGTCTTTTCAGGAATCCCAAGACT
TCATTTTACAGCAAGGAAGTGCCTCAAATGTGCATCCCTGGCAAAATTGAAGAAGTAGTT
CTTGAAGCTAGAACTATTGAGAGAAAACACGAAACCTTATAGGAAGGATGAGAATTCAATC
AATGGAACACCAGATATCACAGTAGAAATTAGAGAACATATTCAGCTTAATGAAAGTAAA
ATTGTTAAACAAGCTGGAGTTGCCACAAAAGGGCCCAATGAATATATTCAAGAAATAGAA
TTTGAAAACCTTGCTCCAGGAAGTGTATTATATTCAGAGTTAGTCTTGATCCACATGCA
CAAGTCGCTGTTGGAATCTTCGAAATCATCTGACACAATTCAGTCTCACTTTAAATCT
GGCAGCCTAGCTGTTGACAAATGCAGATCCTATATTAATAAATTCCTTTTGCTTCTCTTGCC
TCCAGATTAACCTTTGGCTGAGCTAAATCAGATCCTTTACCGATGTGAATCAGAAGAAAAG
GAAGATGGTGGAGGGTGTATGACATACCAAACCTGGTCAGCCCTTAAATATGCAGGTCTT
CAAGGTTTAAATGTCTGTATTGGCAGAAAATAGACCAAAGAATGACTTGGGGCATCCTTTT
TGTAATAATTTGAGATCTGGAGATTGGATGATTGACTATGTCAGTAACCGGCTTATTTCA
CGATCAGGAACCTATTGCTGAAGTTGGTAAATGGTTGCAGGCTATGTTCTTCTACCTGAAG
CAGATCCCACGTTACCTTATCCCATGTTACTTTGATGCTATATTAATTTGGTGCATATACC
ACTCTTCTGGATACAGCATGGAAGCAGATGTCAAGCTTTGTTGAGAATGGTTCAACCTTT
GTGAAAACACCTTTCAATGGGTTCAAGTTCAACTGTGTGGAGTAGGAAAATTCCTTCCCTG
CCAATTTTACCTGCCCTAATGGATGTACCTTATAGGTTAAATGAGATCACAAGAA
AAGGAGCAATGTTGTGTTTCTCTAGCTGCAAGGTTACCTCATTTTTCTTCTGGATTTTTC
CGCTGCTGGGGAAGGATACTTTTATTGCACTTAGAGGTATACTGCTGATTACTGGACGC
TATGTAGAAGCCAGGAATATTATTTTAGCATTGCGGGTACCCTGAGGCATGGTCTCATT
CCTAATCTACTGGGTGAAGGAATTTATGCCAGATACAATTGTCGGGATGCTGTGTGGTGG
TGGCTGCAGTGTATCCAGGATTACTGTAAAATGGTTCAAATGGTCTAGACATTCTCAAG
TGCCAGTTTCCAGAATGTATCCTACAGATGATTCTGCTCCTTTGCTGCTGGCACACTG
GATCAGCCATTGTTTGAAGTCATACAGGAAGCAATGCAAAAACACATGCAGGGCATAACG
TTCCGAGAAAGGAATGCTGGTCCCAGATAGATCGAAACATGAAGGACGAAGGTTTAAAT
ATAACTGCAGGAGTTGATGAAGAAAACAGGATTTGTTTATGGAGGAAATCGTTTCAATTGT
GGCACATGGATGGATAAAATGGGAGAAAGTGACAGAGCTAGAAAACAGAGGAATCCCGACC
ACACCAAGAGATGGGTCTGCTGTGGAAATTTGTTGGCCCTGAGTAAATCTGCTGTTCCGCTGG
TTGCTGGAATTATCCAAAAAATATTTTCCCTTATCATGAAGTCACAGTAAAAAGACAT
GGAAAGGCTATAAAGGTCTCATATGATGAGTGGAAACAGAAAAATACAAGACAACCTTTGAA
AAGCTATTTTCATGTTTCCGAAGACCTTTCAGATTTAAATGAAAAGCATCCAAATCTGGTT
CACAAACGTGGCATATACAAAGATAGTTATGGAGCTTCAAGTCTTGGTGTGACTATCAG
CTCAGGCCTAATTTTACCATAGCAATGGTTGTGGCCCTGAGCTCTTACTACAGAAAAA
GCATGGAAGCTTTGGAGATTGCAGAAAAAATTTGCTTGGTCCCCTTGGCATGAAAAC
TTAGATCCAGATGATATGGTTTACTGTGGAATTTATGACAATGCATTAGACAATGACAAC
TACAATCTTGCTAAAGGTTTCAATTATCACCAAGGACCTGAGTGGCTGTGGCCTATTGGG
TATTTTCTTCGTGCAAAATATATTTTCCAGATTGATGGGCCCGGAGACTACTGCAAG
ACTATAGTTTTGGTTAAAAATGTTCTTTCCGACATTATGTTTCATCTTGAGAGATCCCCT
TGGAAAGGACTTCCAGAAGTACCAATGAGAATGCCAGTACTGTCTTTTCAGCTGTGAA
ACACAAGCCTGGTCAATTGCTACTATTCTTGGAGACTTTATGATTTATAG

Restriction Sites:

Please inquire

ACCN:

NM_000646

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_000646.1</u> , <u>NP_000637.1</u>
RefSeq Size:	7178 bp
RefSeq ORF:	4551 bp
Locus ID:	178
UniProt ID:	<u>P35573</u>
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 (6) differs in the 5' UTR and coding region, compared to variant 4. The resulting protein (isoform 3) is shorter and has a distinct N-terminus, compared to isoform 1.</p>