

## Product datasheet for RC215070

### AGL (NM\_000644) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AGL (NM_000644) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AGL
Synonyms:	GDE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC215070 representing NM_000644 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGACACAGTAAACAGATTCTGAATTTACTTCTGAACGAAATGGAGAACTGGAAAAGACCCTTTCA  
GACTTGAACAAGGGTATGAGCTACAGTCCGATTAGGCCCACTTACAGGAAAAGCAGTTACCGTGTA  
TACAAATTACCCATTTCTGGAGAAACATTTAATAGAGAAAAATCCGTTCTCTGGATTGGGAAAATCCA  
ACAGAAAGAGAAGATGATTCTGATAAATACTGAACTTAATCTGCAACAATCTGGTTCATTTAGTATT  
ATTTCTTCAAGGAAATGAGAAAAGTGGTGGAGGTTACATAGTTGTGGACCCATTTTACGTGTTGGTGC  
TGATAATCATGTGCTACCCTGGACTGTGTTACTTTCAGACATTTTAGCTAAGTGTGGGACCTTTT  
GATGAATGGGAAAGCAGACTTAGGGTTGCAAAAAGAAATCAGGCTACAACATGATTCATTTTACCCATTGC  
AGACTCTTGGACTATCTAGGTATGCTACTCCCTTGCCAAATCAGTTAGAATTAATCCTGACTTTTCAAG  
ACCTAATAGAAAGTATACCTGGAATGATGTTGGACAGCTAGTGGAAAAATTAATAAGGAATGGAATGTT  
ATTTGTATTACTGATGTTGTCTACAATCATACTGCTGCTAATAGTAAATGGATCCAGGAACATCCAGAA  
GTGCCTATAATCTGTGAATCTCCACACTTAAAACCTGCCTGGGCTTAGACAGAGCAGCTTTGGCGTTT  
CTCCTGTGATGTTGCAGAAGGAAATACAAAGAAAAGGAATACCTGCTTTGATTGAAAATGATCACCAT  
ATGAATTCATCCGAAAATAATTTGGGAGGATATTTTCCAAAGCTTAACTCTGGGAATTTTCCAAG  
TAGATGTCAACAAAGCGTTGAGCAATTTAGAAGACTTCTTACACAAGAAAATAGGCGAGTAACCAAGTC  
TGATCCAAACCAACACCTTACGATTATTCAAGATCCTGAATACAGACGGTTTGGCTGTACTGTAGATATG  
AACATTGCACTAACGACTTTTATACCACATGACAAGGGGCCAGCAGCAATTGAAGAATGCTGTAATTTGGT  
TTCATAAAGAATGGAGGAATTAATTCAGAGAAGCATCGACTCATTAATATCATCAGGAACAGGCAGT  
TAATTGCCTTTTGGGAAATGTGTTTTATGAACGACTGGCTGGCCATGGTCCAAAAGTGGACCTGCTACT  
AGAAAGCATCCTTTAGTTACCAGGATTTTACTTTCCATTTGAAGAGATAGACTTCTCCATGGAAGAAT  
CTATGATTCATCTGCCAAATAAAGCTTGTCTGATGGCACACAATGGATGGGTAAATGGGAGATGATCC  
TCTTCAAACCTTCTGTAACCGGTTTCAAGTTTACCTAAGGAGAGAAGTATTTGCTGGGAGACAGT



[View online »](#)

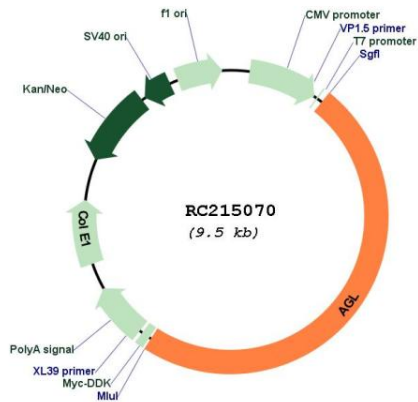
GTAAATTACGCTATGGGAATAAACAGAGGACTGTCCTTATCTCTGGGCACACATGAAAAATACACTG  
AAATAACTGCAACTTATTTCCAGGGAGTACGTCTTGATAACTGCCACTCAACACCTTCCACGTAGCTGA  
GTACATGTTGGATGCTGCTAGGAATTTGCAACCAATTTATATGTAGTAGCTGAAGTGTTCACAGGAAGT  
GAAGATCTGGACAATGCTTTGTTACTAGACTGGGCATTAGTTCCTTAATAAGAGAGGCAATGAGTGCAT  
ATAATAGTCATGAAGAGGGCAGATTAGTTTACCAGATATGGAGGAGAACCTGTTGGATCCTTTGTTACGCC  
CTGTTTGGAGCCTTTAAATGCCAGCTATTGCACATGCCCTGTTTATGGATATTACGCATGATAATGAGTGT  
CCTATTGTGCATAGATCAGCGTATGATGCTCTTCCAAGTACTACAATTGTTTCTATGGCATGTTGTGCTA  
GTGGAAGTACAAGAGGCTATGATGAATTAGTGCCCTCATCAGATTTCAAGTGGTTTCTGAAGAACGGTTTTA  
CACTAAGTGAATCCTGAAGCATTGCCCTCAAACACAGGTGAAGTTAATTTCAAAGCGGCATTATTGCA  
GCCAGGTGTGCTATCAGTAACTTCATCAGGAGCTTGGAGCCAAGGGTTTTATTACAGGTGTATGTGGATC  
AAGTTGATGAAGACATAGTGGCAGTAACAAGACACTCACCTAGCATCCATCAGTCTGTTGTGGCTGTATC  
TAGAACTGCTTTCAGGAATCCCAAGACTTCATTTTACAGCAAGGAAGTGCCTCAAATGTGCATCCCTGGC  
AAAATTGAAGAAGTAGTCTTGAAGCTAGAACTATTGAGAGAAACACGAAACCTTATAGGAAGGATGAGA  
ATTCATCAATGGAACACCAGATATCACAGTAGAAATTAGAGAACATATTCAGCTTAATGAAAGTAAAA  
TGTTAAACAAGCTGGAGTTGCCACAAAAGGGCCCAATGAATATATTCAAGAAATAGAATTTGAAAACCTG  
TCTCCAGGAAGTGTATTATATTACAGAGTTAGTCTTGATCCACATGCACAAGTCCGCTGTTGGAATCTTC  
GAAATCATCTGACACAATTCAGTCCCTCACTTTAAATCTGGCAGCCTAGCTGTTGACAATGCAGATCCAT  
ATTAATAATTCCTTTTGCTTCTCTTGCCTCCAGATTAACCTTTGGCTGAGCTAAATCAGATCCTTTACCGA  
TGTGAATCAGAAGAAAAGGAAGATGGTGGAGGGTGCTATGACATACCAAACCTGGTCAGCCCTTAAATATG  
CAGGCTTCAAGGTTTAAATGCTGTATTGGCAGAAATAAGACCAAAGAATGACTTGGGGCATCCTTTTTG  
TAATAATTTGAGATCTGGAGATTGGATGATTGACTATGTCAGTAAACCGGCTTATTCACGATCAGGAAC  
ATTGCTGAAGTTGGTAAATGGTGCAGGCTATGTTCTTACCTGAAGCAGATCCACCGTTACCTTATCC  
CATGTTACTTTGATGCTATATTAATTTGGTGCATATACCCTCTTCTGGATACAGCATGGAAGCAGATGTC  
AAGCTTTGTTTCAAGTGGTTCAACCTTTGTGAAACACCTTTTATTGGGTTCAAGTCAACTGTGTGGAGTA  
GGAAAATTCCTTCCCTGCCAATCTTTTACCTGCCCTAATGGATGTACCTTATAGGTTAAATGAGATCA  
CAAAAGAAAAGGAGCAATGTTGTGTTTCTCTAGCTGCAGGCTTACCTCATTTTTTCTTCTGGTATTTTCCG  
CTGCTGGGAAGGGATACTTTTATTGCACTTAGAGGTATACTGCTGATTACTGGACGCTATGTAGAAGCC  
AGGAATATTTTTAGCATTGCGGGTACCCTGAGGCATGGTCTCATTCTAATCTACTGGGTGAAGGAA  
TTTTATGCCAGATACAATGTCCGGATGCTGTGTGGTGGTGGCTGCAGTGTATCCAGGATTACTGAAAA  
GGTTCAAATGGTCTAGACATTTCAAGTGCCAGTTCCAGAATGTATCCTACAGATGATTCTGCTCCT  
TTGCCCTGCTGGCACACTGGATCAGCCATTGTTTGAAGTCATACAGGAAGCAATGCAAAAACACATGCAGG  
GCATACAGTTCCGAGAAAAGGAATGCTGGTCCCCAGATAGATCGAAACATGAAGGACGAAGGTTTTAATAT  
AACTGCAGGAGTTGATGAAGAAAACAGGATTTGTTTATGGAGGAAATCGTTTTCAATTGTGGCACATGGATG  
GATAAAATGGGAGAAAAGTACAGAGCTAGAAAACAGAGGAATCCCAGCCACACCAAGAGATGGGTCTGCTG  
TGGAAATGTGGGCTGAGTAAATCTGCTGTTGCTGGTGTGCTGGAAATTCAAAAAAAATATTTTCCC  
TTATCATGAAGTCACAGTAAAAAGACATGGAAAGGCTATAAAGGTCTCATATGATGAGTGGAACAGAAAA  
ATACAAGACAACCTTTGAAAAGCTATTTTCAATGTTTCCGAAGACCCTTCAAGTTTAAATGAAAAGCATCCAA  
ATCTGGTTCACAAACGTGGCATAACAAGATAGTTATGGAGCTTCAAGTCCCTGGTGTGACTATCAGCT  
CAGGCCTAATTTTACCATAGCAATGGTTGTGCCCTGAGCTTTTACTACAGAAAAGCATGGAAGCT  
TTGGAGATTGCAGAAAAAAAATGCTTGGTCCCCTTGGCATGAAAACCTTATAGTCCAGATGATATGGTTT  
ACTGTGGAATTTATGACAATGCATTAGACAATGACAACACTACAATCTTGCTAAAGGTTTCAATTTATACCA  
AGGACCTGAGTGGCTGTGGCCTATTGGGTATTTTCTCGTGCAAAAATATATTTTCCAGATTGATGGGC  
CCGGAGACTACTGCAAAGACTATAGTTTGGTTAAAAATGTTCTTTCCCGACATTATGTTTCATCTTGAGA  
GATCCCCCTGGAAAGGACTTCCAGAAGTACCAATGAGAATGCCAGTACTGTCTTTTACAGTGTGAAAC  
ACAAGCCTGGTCAATTGCTACTATTCTTGGACACTTTTATGATTTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

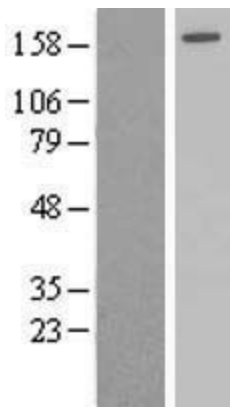


<b>ORF Size:</b>	4596 bp
<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_000644.2</a> , <a href="#">NP_000635.2</a>
<b>RefSeq Size:</b>	7105 bp
<b>RefSeq ORF:</b>	4599 bp
<b>Locus ID:</b>	178
<b>UniProt ID:</b>	<a href="#">P35573</a>
<b>Cytogenetics:</b>	1p21.2
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Metabolic pathways, Starch and sucrose metabolism
<b>MW:</b>	174.6 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for RC215070



Western blot validation of overexpression lysate (Cat# [LY424972]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC215495] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).