

## Product datasheet for **MR210236**

### **Agbl5 (BC057349) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Agbl5 (BC057349) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Agbl5
Synonyms:	4930455N08; 9430057O19Rik; CCP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>MR210236 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAACATGAACAAGCAAAGCAAACGTATTCCAGGGCATGGCCCCCTTTGTGCGCACACTGCCTTCCC  
 GGCCACGCTGGGAACGCATTAGAGAGCGGCCACCTTTGAGATGACAGAGACACAGTTTGTGCTATCCTT  
 TGTTACCGTTTTCTAGAGGGCCGGGAGCCACCACCTTCTTCGCTTCTGCTACCCCTTCTCCTACAGT  
 GACTGCCAGGATCTGCTGAGCCAGCTAGACCAGCGCTTTTCAGAGAATTACTCTACCCATAGCAGTCCTC  
 TGGATAGTATTTATTACCACCGAGAGCTTCTCTGCTATTCTCTGGATGGACTTCGTGTAGATCTACTAAC  
 AATCACTTCTGCCATGGGCTTCGAGATGATCGGGAGCCCGACTAGAGCAGCTATTTCTGATCTCGGC  
 ACTCCCGACCATTCGTTTACAGGCAAAGGATATTCTTCTAAGCAGTAGGGTACACCTGGAGAGA  
 CTCATCTAGCTTTGTGTTCAATGGCTTCTGGACTTCATCCTTCGACCTGATGATCCCCGGGCACAAAC  
 TCTCCGTCGACTTTTGTTTTAAAGTTGATTCCCATGTTAAACCCTGATGGTGTGGTCCGGGGCCACTAC  
 CGCACGGACTCCCGTGGAGTGAATCTGAACCGTAGTACTTGAAGCCTGATGCCGTCTGCACCCGGCCA  
 TCTATGGCGCAAAGCTGTGCTGCTTTATCATCAGTGCCTCGAGGCTCAACGCCAAGAGTCCCACGAA  
 CCAGCAACCCACTCTCCATCTCCCTCCGGAAGCCCTCTCTGACCTCGAGAAAGCCAATAATCTCCAC  
 AATGAAGCTCACCTCGGGCAGTCACCTGATGGGAAAACCTGCGACTTGGCCTGAGACAGAGCCAGCAG  
 AAGAGAAGACTGACCCTGTGTGGCTTATGCCACAGCCAATTCCTGAACCTCGAGGAGCCAGCCCTGACAC  
 CATCCCCCAAAGAGAGTGGTGTGCTACTATGTAGACTTGCACGGACATGCTTCCAAAAGGGGCTGC  
 TTCATGTATGGCAACAGCTTTAGTGACGAGACACCCAGGTGGAAAACATGCTATATCCAAAGCTCATCT  
 CCTTGAATTCAGCCCACTTTGACTTCCAGGGCTGCAATTTCTCAGAGAAGAACATGTATGCCCGAGCCG  
 TAGAGATGGCCAGTCCAAGAGGAAGCGGCCGTGTCGAATCTACAAAGCCTCAGGGATAATCCACAGC  
 TACACACTTGAATGCAACTACAACACTGGACGCTCAGTCAACAGCATCCCTGCTGCTGCCATGACAACG  
 GGCGCGCCAGCCCCCTCCCTCCGGCTTCCCTCCAGATACACTGTGGAACATTCGAGCAGGTGGG  
 GCGAGCTATGGCCATCGCAGCTCTGGACATGGCAGAGTGAATCCGTGGCCCCGAATTTGTGCTGTCGGAA  
 CACAGCAGCCTCACCAACCTGCGAGCTGGATGCTGAGGCAGTGCACAGCAGAGGGCTGACCAGTG  
 CTGGGAACATGGGCGGAGCAAGAAGCGAGGGGCTCGAACCCCTCCAAAAGCAACAACAGCTTGCCTGT  
 TTCCTGCTCTGAAAATGCTCTGAGCCGGTTCGCAGTTTTAGCACCGGCACGAGTACTGGTGGCAGCAGC  
 AGCAGCCAACAAAACCTCCACAGATGAAGAACTCTCCAGCTTCCCTTTTCATGGCAGTCGGACTGCGG  
 GGCTACCAGGCCTGGGCTCTAGCACCCAAAAGGTCAGCCATCGGGTGTGGGCCCTGTGAGAGAGCCCCG  
 ATGCTCAGACAGAAGGGCGGACAGCAGCCACTGAACCATCGCTCTACCAAGCAGCCTGGCCCCATCC  
 CCAACTCTGGCTAGTTCTGGCCAACTCCTCACGAAACATGGGCTCCTGCCTCTACCCAATTCACTCA  
 GCTTATCAGGGAGCAGCTGCTCATTCTCGTCTTCAGGGGACAAGCCAGAGGCTGTCATGGTGATTGGGAA  
 AAGCCTACTAGGGGCTGGTGTGCTCGGATCCCTTGCATTAGGACTCGATTGCAGACTCCATTGTCCTGCCA  
 GATGCACCCCAACCACAGCCTACTAGCTTTGGCTTCTACCCGTCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR210236 protein sequence  
Red=Cloning site Green=Tags(s)

MNMNKQSKLYSQGMAPFVRTLPSRPRWERIRERPTFEMTETQFVLSFVHRFVEGRGATFFAFICYPFYSY  
 DCQDLLSQLDQRFSENYSTHSSPLDSIYHRELLCYSLDGLRVDLLTITSCHGLRDDREPRLEQLFPDLG  
 TPRPFRFTGKRIFFLSSRVHPGETPSSVFVNGFLDFILRPDDPRAQTLRRLFVFKLIPMLNPDGVVRGHY  
 RTDSRGVNLNRQYLKPDVAVLHPAIYGAVALLYHHVHSRLNAKSPTNQPTLHLPEAPLSDLEKANNLH  
 NEAHLGQSPDGENPATWPETEPAEKTDPVWLMPOPIPELEEPAPDTIPPKESGVAYYVDLHGASKRGC  
 FMYGNSFSDESTQVENMLYPKLSLNSAHDFDQGCNFKSEKNMYARDRRDQSQSKEGSRVAIYKASGIIHS  
 YTLECNNTGRSVNSIPAACHDNGRASPPPPAFPSRYVELFEQVGRAMAIAALDMAECNPWPRIVLS  
 HSSLTNLRAWMLRHVRNSRGLTSAGNMGASKKRGARTPPKSNNSLPVSCSENALSRVRSFSTGTSTGGSS  
 SSQONSQPMKNSPSPFFHGSRTAGLPGLGSSTQKVSHRVLGPVREPRCSRDRRRRQQLNHRSTTSSLAPS  
 PTLASSGPTSSRNMGSCLLPNSLSLGSSCSFSSSGDKPEAVMVIKSLGAGARIPCIIRLQTPLSLP  
 DAPQPQTSFGFPTRP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** BC057349

**ORF Size:** 2148 bp

**OTI Disclaimer:** 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. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:**

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:** [BC057349](#), [AAH57349](#)

**RefSeq Size:** 3332 bp

**RefSeq ORF:** 2150 bp

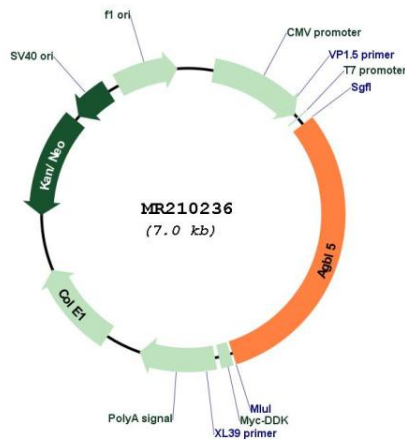
**Locus ID:** 231093

**Cytogenetics:** 5 B1

**MW:** 79.5 kDa

**Gene Summary:** Metalloprotease that mediates protein deglutamylation. Specifically catalyzes the deglutamylation of the branching point glutamate side chains generated by post-translational glutamylation in proteins such as tubulins (PubMed:20519502, PubMed:21074048). In contrast, it is not able to act as a long-chain deglutamylase that shortens long polyglutamate chains, a process catalyzed by AGTPBP1/CCP1, AGL2/CCP2, AGL3/CCP3, AGL1/CCP4 and AGL4/CCP6 (PubMed:25103237). Mediates deglutamylation of CGAS, regulating the antiviral activity of CGAS (PubMed:26829768).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR210236