

Product datasheet for **MR216156**

Agbl5 (NM_174849) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Agbl5 (NM_174849) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Agbl5
Synonyms:	9430057O19Rik; CCP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR216156 representing NM_174849
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

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 TGCTTCCCTGACTACGAGTTCAACGTGTGGACCCGGCCTGACTGTGCTGAAACGGAATATGAAAATGGC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >MR216156 representing NM_174849
Red=Cloning site Green=Tags(s)

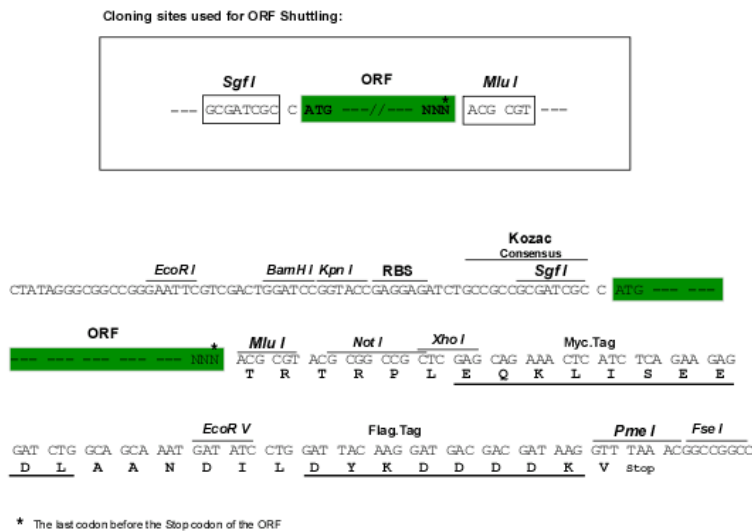
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 TSCHGLRDDREPRLEQLFPDLGTPRPFRTGKRIFFLSSRVHPGETPSSFVFNGLDFILRPDDPRAQTL
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 QPTLHLPEAPLSDLEKANLHNEAHLGQSPDGENPATWPETEPAEKTDVPWLMQPPIPELEEPAPDTI
 PPKESGVAYYVDLHGASKRGCIFYGNSFSDESTQVENMLYPKLSLNSAHDFDQGCNFSEKNMYARDRR
 DGQSKEGSRVAIYKASGIIHSYTLNNTGRSVNSIPAACHDNGRASPPPPAFPSRYVELFEQVGR
 AMAIAALDMAECNPWPRIVLSEHSSLTNLRAWMLRHVRNSRGLTSAGNMGASKKRGARTPPKSNNSLPVS
 CSENALSRVRSFSTGTSTGGSSSQQNSPQMKNSPSPFFHGSRTAGLPGLGSSTQKVSHRVLPVVRGKPV
 WEPLQQVFGCLGHCWGERA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_174849

ORF Size: 2157 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: [NM_174849.3](#), [NP_777274.1](#)

RefSeq Size: 2922 bp

RefSeq ORF: 2160 bp

Locus ID: 231093

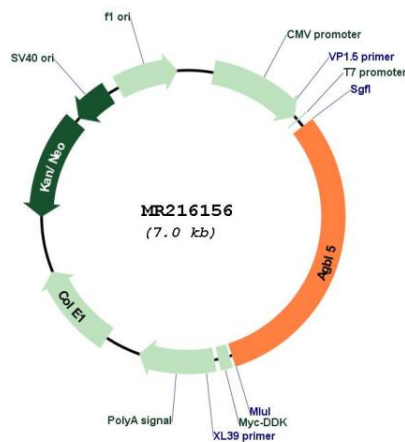
UniProt ID: [Q09M02](#)

Cytogenetics: 5 B1

MW: 80.6 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 MR216156