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Product datasheet for RC206949

AGBL2 (NM_024783) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AGBL2 (NM_024783) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AGBL2
Synonyms:	CCP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC206949 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTCCCAGCTTTGGAAACGCACCTAAAGCAGACTATTCCTGATCCTTATGAAGACTTTATGTACCGTC
ACCTCCAATATTATGGCTACTTTAAAGCTCAGAGAGGCAGTTTACCAAACTCTGCTACGCATCAGCATGT
TCGGAAGAATAACCCTCAATGCCTGTTGAATGGCTCTCTTGGGGAAAAAGATGATTTGATACCAGACACC
CTGCAAAAGGAGAAGCTTCTATGGCCTATCAGTTTATCTTCAGCTGTGCACAGACAGATAGAAGCCATCA
ACAGAGACTTTCACTCTTGCCTGGGCTGGATGCAGTGGCGCGGCCTCAGCTCACTGCAACCTCCACCTCC
CAGATTCAAGGATTCTCCTGCCTCAGCTTTCCGAGTAGCTGGGATTACAGATTCACATATGCTGAGTTTA
CCACATCTTAGGAGCAGACAGCTTCTTTATGATGAGTTGGATGAAGTAAACCCACGTCTTCGAGAACCCC
AAGAGCTCTTTTCCATTTTGTCTACCAAGAGGCCACTGCAGGCTCCAAGATGGCCAATTGAATGTGAGGT
CATCAAGGAAAACATCCATCATATTGAGTGGGCTCCACCTCAACCAGAATATTTCTATCAGCCTAAAGGA
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TAGAAGGTTCCTATTTTACCAGTTCCAGAGTGGGAGGCAAACGAGGAATTGTCAAGGAACTTGCTGTCAC
GTTGCAAGGACCAGAAGATAATACTCTACTGTTTGAATCAAGGTTTGAGAGTGGGAATCTGCAAAAAGCT
GTCAGAGTAGACACCTATGAGTATGAACTCACCTTGCGAACTGACCTCTACACTAACAAACACACTCAGT
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TCTACTGTCTCACGTGGACCATTCAGTTTCCATATGACCAGGACACTTGCTTCTTTGCACACTTCTACCC
ATATACATACACTGATTTGCAATGCTACCTCCTGTCAGTGGCAAACAACCCTATCCAGTCTCAGTTCTGC
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CCTTGGCCGGAAGGGATTTGAACAGGCATTATAAAACCATTCTGAAGGAGTCTTTCCCTTGTATTTGGTA
CACCAGGAACATGATCAAAAGACTTCTTGAAGAAAGAGAGGTTCTGTTGTATTGTGATTTCCATGGCCAC
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GCCAAGAGCCAGCTCCAGGTATGAAGCCAAACTGGCCTAGGAGCAGATATCCTGCCACAAAGAGAGGCTG
TGCTGCCATGGCGGCATACCCATCCTTGCACATATACACATACCCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206949 protein sequence
Red=Cloning site Green=Tags(s)

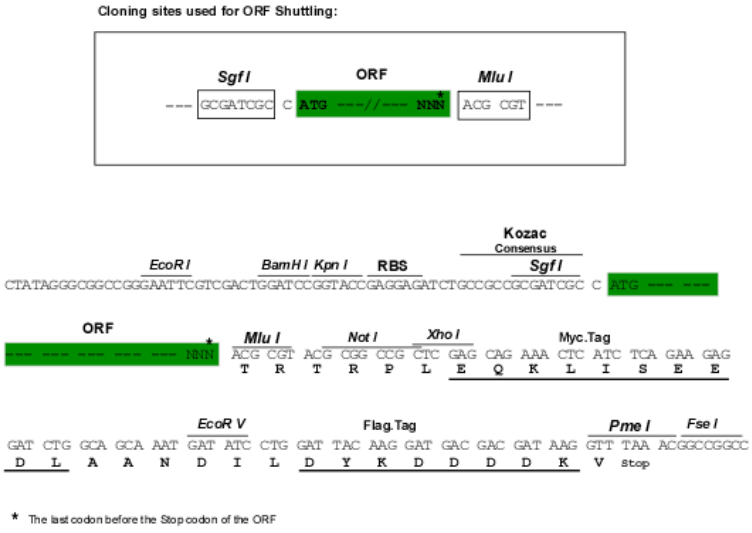
MFPALETHLKQTIPDPYEDFMYRHLQYYGYFKAQRGSLPNSATHQHVRKNNPQCLLNGSLGEKDDLIPDT
LQKEKLLWPISLSSAVHRQIEAINRDFHSCLGWMQWRGLSSLQPPPPRFKDSPASAFRVAGITDSHMLSL
PHLRSRQLLYDELDEVNPRLREPQELFSILSTKRPLQAPRWPIECEVIKENIHHIEWAPPQPEYFYQPKG
NEKVPEIVGEKKGTVVYQLDSVPIEGSYFTSSRVGGKRGIVKELAVTLQGPEDNTLLFESRFESGNLQKA
VRVDTYEYELTLRTDLYTNKHTQWFYFRVQNTRKDATYRFTIVNLLKPKSLYTVGMKPLLYSQLDANTRN
IGWRREGNEIKYYKNNTDDGQQPFYCLTWTIQFPYDQDTCFFAHFYPYTYTDLQCYLLSVANNPIQSQFC
KLQTLCRSLAGNTVYLLTITNPSQTPQEAAAKKAVVLSARVHPGESNGSWVMKGFLDFILSNSPDAQLLR
DIFVFKVLPMLNPDGVIVGNYRCSLAGRDLNRHYKTILKESFPCIWYTRNMIKRLLEEREVLLYCDFHGH
SRKNNIFLYGCNNNNRKYWLHERVFPLMLCKNAPDKFSFHSCNFKVQKCKEGTGRVVMWRMGILNSYTME
STFGGSTLGNKRDTHFTIEDLKSLGYHVCDTLLDFCDPDQIKFTQCLAELKELLRQEIHKKFHELGQDVD
LEGSWSDISLSDIESSTSGSDSSLSDGLPVHLANIADELTQKKKMFKKKKKKSLQTRKQRNEQYQKKNLM
QKLKLTEDTSEKAGFASTLQKQPTFFKNSENSSFLPMKNENPRLNETNLNRRDKDTPLDPSMATLILPKN
KGRMQNKKPGFTVSCSPKRTINSSQEPAPGMKPNWPRSRYPATKRGCAAMAAYPSLHIYTYP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

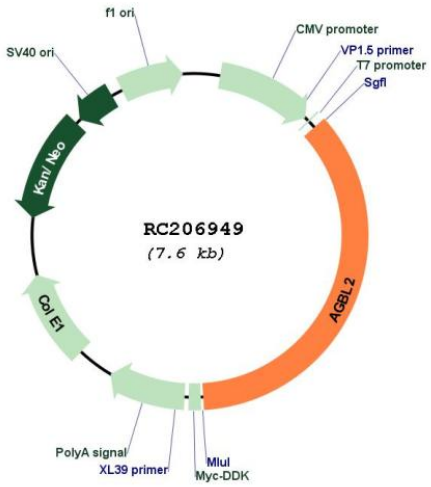
Chromatograms: https://cdn.origene.com/chromatograms/mk6587_h03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_024783

ORF Size: 2706 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

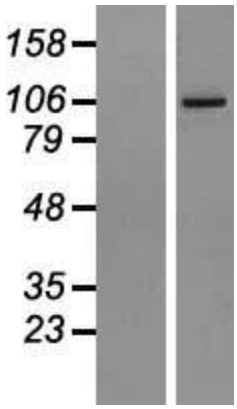
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_024783.4

RefSeq Size:	3613 bp
RefSeq ORF:	2709 bp
Locus ID:	79841
UniProt ID:	Q5U5Z8
Cytogenetics:	11p11.2
Protein Families:	Druggable Genome
MW:	104.2 kDa
Gene Summary:	Metallocarboxypeptidase that mediates deglutamylation of target proteins. Catalyzes the deglutamylation of polyglutamate side chains generated by post-translational polyglutamylation in proteins such as tubulins. Also removes gene-encoded polyglutamates from the carboxy-terminus of target proteins such as MYLK. Does not show detyrosinase or deglycylase activities from the carboxy-terminus of tubulin.[UniProtKB/Swiss-Prot Function]

Product images:



Western blot validation of overexpression lysate (Cat# [LY411047]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206949 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).