

Product datasheet for **RG211906**

AGBL5 (NM_001035507) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AGBL5 (NM_001035507) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AGBL5
Synonyms:	CCP5; RP75
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG211906 representing NM_001035507
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGAGCTGCGCTGTGGGGATTGCTGTTCACTTCTCGCTTTGATTACAGGAATCTAGCCACGTGGAGA
 AGGTGGAATCTTTGTCCAGTGATGGGAAGGGTAGGAGGTGGGCGTCAGCCCTGACCAGTGCCATTGC
 CTCTCCCTGACTATGAATTCAACGTGTGGACCCGACCAGACTGTGCTGAAACGGAATTTGAGAATGGG
 AACAGGTCATGGTTCTACTTCAGCGTCCGGGAGGAATGCCAGGAAAACATCAAGATCAACATTATGA
 ACATGAACAAGCAGAGCAAGCTGTATCCAGGGCATGGCCCCCTTTGTGCGCACACTGCCACCCGGCC
 ACGCTGGAAACGATTGAGACCGGCCACCTTTGAGATGACAGAGACGCAGTTTGTGTTATCCTTTGTT
 CATCGTTTCGTGGAGGGCGTGGGGCCACCACCTTCTCGCCTTCTGCTACCCCTTCTCCTACAGTGACT
 GCCAGGAAGTCTAAACAGCTAGACCAGCGCTTCCGAGAACCACCCTACCCATAGCAGCCCCCTGGA
 TACCATCTATTACCATCGGGAGCTCCTTTGCTATTCTCTGGATGGACTTCGTGTAGATCTGCTGACGATC
 ACTTCCTGCCATGGGCTTCGAGAAGATCGAGAGCCCCGTCTAGAGCAGCTATTTCTGATACCAGACCC
 CTCGACCATTCGGTTTCGAGGCAAGAGGATATCTTCTTAAGCAGTAGAGTACACCCAGGGGAGACTCC
 ATCTAGCTTTGTCTTCAATGGCTTTCTGGACTTCATCCTCCGACCTGATGATCCCCGGGGCCAAACCTC
 CGTCGCTCTTCGTCTTTAAGCTGATTCCTCATGTTGAACCCGATGGTGTGGTCCGGGACACTACCGCA
 CAGACTCACGTGGAGTGAATCTGAACCGTCAGTACCTGAAGCCTGATGCCGTCTGCACCCGGCCATCTA
 TGGGGCCAAAGCTGTGCTTCTCTACCACCATGTGCACTCTCGTCTGAACCTCCAGAGTTCTCTGAGCAC
 CAGCCCAGTTCTGTCTCCCTCTGATGCTCCTGTTTCTGACCTGGAGAAAGCCAACAATCTCCAAATG
 AAGCTCAGTGTGGCACTCAGCTGACAGGCATAACGCTGAAGCCTGGAACAAACAGAGCCAGCAGAACA
 GAAGCTCAACAGTGTGTGGATTATGCCACAACAGTCTGCGGGGCTTGAAGAGTCAGCCCCTGATACCATC
 CCCCCAAAGAGAGTGGCGTTGCTTACTATGTGGACCTGCATGGACATGCTTCCAAAAGGGGCTGCTTCA
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 GAATTCAGCCCACTTCGACTTCAGGGCTGCAATTTCTCAGAGAAGAATATGTATGCCCAGACCGTAGA
 GATGGCCAGTCTAAAGAGGGAAGCGCCGTGTTGCAATCTACAAAGCCTCAGGGATAATCCACAGCTACA
 CACTTGAATGCAACTACAACACTGGACGCTCAGTAAACAGCATCCCTGCTGCCTGCCATGACAATGGGCG
 TGCCAGCCCCCTCCCCCGCGGCTTTCCCTCCAGATACACTGTGGAATATTTGAGCAGGTGGGACGA
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 GAATGTGGGTGTCAACAAGAAGAGGGGCTTCGAACTCCACCCAAAAGTCACAATGGGTTGCCTGTCTCC
 TGCTCCGAAAACACCTTGAGTCGGGCACGAAGTTTACACCCGGCACAAGTGCCGGTGGTAGCAGCAGCA
 GCCAACAAAATTCTCCACAGATGAAGAATCCCCCAGCTTCTTTTCATGGCAGTCGGCCTGCAGGGCT
 GCCAGGCTGGGCTCTAGTACCCAAAAGGTACCCACCGGGTCTGGGCCCGTCAGAGGTAAGCCAGTC
 TGGGAGCCCCTGCAACATGTGTTTCGTTGTCTGGGGCATTGCTGGGGGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

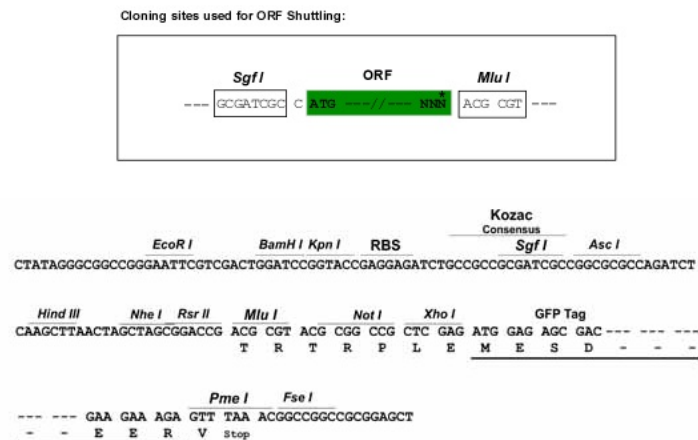
Protein Sequence: >RG211906 representing NM_001035507
 Red=Cloning site Green=Tags(s)

MELRCGGLLFSSRFDSGNLAHVEKVESLSSDGEVGGGASALTSGIASSPDYEFNVWTRPDCAETEFENG
 NRSWFYFSVRGGMPGKL IKINIMNMNKQSKLYSQGMAPFVRTLPTRPRWERIRDRPTFEMTETQFVLSFV
 HRFVEGRGATTTFAFCYPFSYSDCQELLNQLDQRFENHPTTHSSPLDTIYYHRELLCYSLDGLRVDLLTI
 TSCHGLREDREPRLEQLFPDTSTPRPFRFAGKRIFFLSSRVHPGETPSSFFVNGFLDFILRPDDPRAQTL
 RRLFFVKLIPMLNPDGVVRGHYRTDSRGVNLNRQYLKPD AVLHPAIYGAKAVLLYHHVHSRLNSQSSEH
 QPSSCLPPDAPVSDLEKANNLQNEAQCCHSADRHNAEAWKQTEPAEQKLNSVWIMPQQSAGLEESAPDTI
 PPKESGVAYYVDLHGHASKRGCFMYGNSFSDESTQVENMLYPKLISLNSAHDFDQGCNFSEKNMYARDRR
 DGQSKEGSGRVAIYKASGIIHSYLECNNTGRSVNSIPAACHDNGRASPPPPAFPSRYTVELFEQVGR
 AMAIAALDMAECNPWPRIVLSEHSSLTNLRAWMLKHVRNSRGLSSTLNVGVNKKRGLRTPPKSHNGLPVS
 CSENTLSRARSFSTGTSAGGSSSQQNSPQMKNPSFPFHGSRPAGLPGLGSSTQKVTHRVLGPVRGKPV
 WEPLQHVFGCLGHCWGK

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001035507

ORF Size: 2151 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_001035507.3](#)

RefSeq Size: 2460 bp

RefSeq ORF: 2154 bp

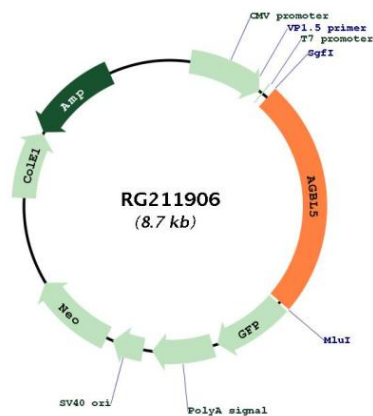
Locus ID: 60509

UniProt ID: [Q8NDL9](#)

Cytogenetics: 2p23.3

Gene Summary: This gene encodes a metallopeptidase involved in protein deglutamylation and a member of the peptidase M14 family of proteins. The encoded protein has been described as a "dual-functional" deglutamylase that can remove glutamate residues from both carboxyl termini and side chains of protein substrates. This deglutamylase activity may be important in antiviral immunity. Mutations in this gene are associated with retinitis pigmentosa. [provided by RefSeq, Jul 2016]

Product images:



Circular map for RG211906