

Product datasheet for **MR210060**

Pgghg (NM_145387) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pgghg (NM_145387) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pgghg
Synonyms:	5730511L01Rik; Athl1; BC023151
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR210060 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACGGCTCTGAAGATGACCCGACCATATTCAGTGCCCGTTGTCTGCCAGTGACCCAGGCTCTGGG
 CCACTGTAAACGAACTCATACCTAGGTACACGTGTGTATCATGACACCATCCATATAAACGGTGTGTACAA
 TGGAGCTGTGGGGACACTCACCGGCCAGTCTGCCAGCCCCCTCAATGTCCAGCTGGAGGCCCTGCA
 GGGACAGAACAGCTGACAGAGACCTTTACCCTGGACACCAACACAGGTTCTTCCACACCCTGGAAG
 GCCCAGCTTCCGGGCTCCAGCGGATCTATGCTCACCGTGTGTACCCCATGCTCTGGTCTTCAGTGT
 GTCCATTGCACGCTTGACCACAGGGAACAAACCCATCACAGTGCCGTTACGGGCAGACTTCTCCCCGAA
 AGCCAGACCTGGACCTGCGTGTGGGCTGACTTCCAGGGACTCCGGTACCTGCATGGCCAGTACTTA
 ACCCTGAGCAGCCTGGAGAGCCACAGCAGGAAGTGCATATGCTATGGATGCCTGTCCCCCAGCCTTGAC
 CCTTGGGAAGAGGAGAAGGACAGGACCTGGGAGTTTCTGACTGTTGTGGGTAGCAGCCAGGCTGAAGCC
 CAGGACTGCTTTGCTGAGGCCCTACAGCTGCAGACCAGGGGTGTTCTGTATAACAATCCATGCAGACTCCT
 GGGGCCGGCTCTGGGCAGGCTGTGGCCTGGATGTGGCTGGGCCCTGGCCCTGCGCCAGGCCCTTCGTGG
 CTCTCTACTACCTGTTTCAGTGAGCTTCCCCAGCCTGGCACTCAAGGATTCATCAGCCATGGGCTTAGC
 CCCGGAGGACTCTCCAATGGGAGTAAGGAGGAATGCTACTGGGGCCATATCTTCTGGGATCAGGACATCT
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 GCTGGGAGGAGCCCTGAAGAATGGCCAGAACCTGGGCTACCAGGGAGCCAAGTTTGTGGGAGAGTGCA
 AGCACTGGCCTGGAGGTCTGCCCTGAGGACATTTATGGGACCCAGGAGATCCATATCAATGGGCTGTGG
 CTTTGGCCTTTTCAGCTGTATTACTATTACACTCAGGACTCGAAGCTCTTCCAAGAGGATGGTGGCTGGGA
 TGTGGTCAGTTCTGTGGCTGAGTTTGGTGTAGCCGTGTAGAATGGAGCTCCAGGACAAGATGTACCAC
 CTGAAAGGAGTCAATGCCCCGATGAGTACCATTACAGGAGTCAACAACCTGTCTACACCAATGTCTGG
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 GAGCGTGGAGAAGAGGTGAAGCAGGCAGATGTTGTGCTCCTGGGTACCCAGTCCCCTTTCCCTGACAC
 CTGACATCCGAAGGAAAACTTGGAGACTTATGAGGCCGTGACATCCCCCAGGGCCCTGCTATGACCTG
 GAGCATGTTTGTGTGGGCTGGATGGAAGTGGGACCCCTCAAGGGCTCAGTCCACCTGAGCAGGAGT
 TTCGCAATGTCCTGAGCCCTCAAGGTGTGGACGGAGAATGCAGACGGGTCTGGTGCAGTGAAGTCTCT
 TACTGGCATGGGGGCTTCCCTGCAGGCAGCACTTTCGGGTGCACAGGATTCAGGATCACTGAGGCAGG
 TGTGACCTTTGACCCCTGTGTCCAGACCTGGTCTCCAGAGTATCTGTCTCTGGTATCTCTACCTGGGG
 AACAAAGATCAACTTCGCCTTTTCCAAGGACTCGGTGACACTTGAGGTACAGCCCGTGCAGAGCCCTGGG
 CACCCCTACTAGAAGCTGAGCTGTGGCCATCGCTGGCTCATCTTCCCCTGACACCAGGACAGAAGTCTC
 CTTTCCCCTCAGCTGGCCGATACAAAGTTCATCCCCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210060 protein sequence
Red=Cloning site Green=Tags(s)

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MDGSEDDPTIFSARCLSPDPR LWATVTNSYLGTRVYHDTIHINGVYNGAVGDTHRASLP SPLNVQLEAPA
GTEQLTETFTLDTNTGSFLHTLEGPSFRASQRIY AHRVLP HVLVFSVSIARLTTGNKPI TVPLRADFSPE
SPDLDLRVGPDFQGLRYLHGHV LNPEQPGE PQQEVHMLWMPVPPALTLGEEEKDR TWEFLTVVGSSQAEA
QDCFAEALQLQTRGVLYTIHADSWGRLWAGCGLDVAGPLALRQALRGS LYYL F SELPQPGTQGFISHGLS
PGGLSNGSKEECYWGHI FWDQDIWMFPNILMFHPEAARAITLEYRVRTLGGALKNGQNLGYQGA KFAWESA
STGLEVCPEDIYGTQEIHINGAVALAFQLYYY YTTQDSKLFQEDGGWDVVSSVAEFWCSRVEWSSQDKMYH
LKGVMPPDEYHSGVNNSVYTNVLVQNSLHFAAALAKDLGLPIRKQWLEVADRIKIPFDSEQNFHPEFDGY
ERGEEVKQADVLLGYPVPFPLTPDIRRKNLETYEAVTSPQGPAMTWSMF AVGW MELRDP SRAQVHL SRS
FANVTEPFKVVW TENADGSGAVNFLTGMGGFLQAALFGCTGFRITEAGVTFDPLCPDLVSRVSVSGISYLG
NKINFAFSKDSVTLEVTARAEPWAPLLEAELWPSLAHLPLTPGQKVSFP HSAGRIQRSSP
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_145387

ORF Size: 2073 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_145387.5](#)

RefSeq Size: 2975 bp

RefSeq ORF: 2073 bp

Locus ID: 212974

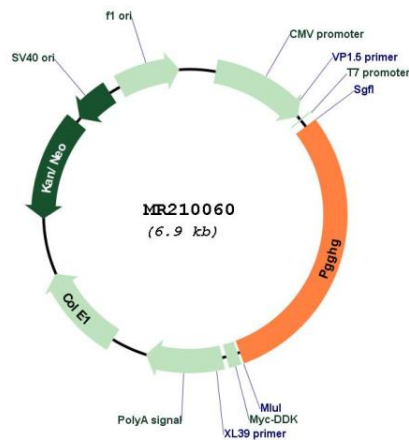
UniProt ID: [Q8BP56](#)

Cytogenetics: 7 F5

MW: 76.5 kDa

Gene Summary: Catalyzes the hydrolysis of glucose from the disaccharide unit linked to hydroxylysine residues of collagen and collagen-like proteins.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210060