

Product datasheet for **MG210060**

Pgghg (NM_145387) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pgghg (NM_145387) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pgghg
Synonyms:	5730511L01Rik; Athl1; BC023151
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG210060 representing NM_145387
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGACGGCTCTGAAGATGACCCGACCATATTCAGTGCCCGTTGTCTGCCAGTGACCCAGGCTCTGGG
CCACTGTAAACGAACTCATACCTAGGTACACGTGTGTATCATGACACCATCCATATAAACGGTGTGTACAA
TGGAGCTGTCGGGGACACTCACCGGCCAGTCTGCCAGCCCCCTCAATGTCCAGCTGGAGGCCCTGCA
GGGACAGAACAGCTGACAGAGACCTTTACCCTGGACACCAACACAGGTTCTTCTCCACACCCTGGAAG
GCCCCAGCTTCCGGGCTTCCAGCGGATCTATGCTCACCGTGTGTACCCCATGCTCTGGTCTTCAGTGT
GTCCATTGCACGCTTGACCACAGGGAACAAACCCATCACAGTGCCGTTACGGGCAGACTTCTCCCCGAA
AGCCCAGACCTGGACCTGCGTGTGGGCTGACTTCCAGGGACTCCGGTACCTGCATGGCCACGTACTTA
ACCCTGAGCAGCCTGGAGAGCCACAGCAGGAAGTGCATATGCTATGGATGCCTGTCCCCCAGCCTTGAC
CCTTGGGAAGAGGAGAAGGACAGGACCTGGGAGTTTCTGACTGTTGTGGGTAGCAGCCAGGCTGAAGCC
CAGGACTGCTTTGCTGAGGCCCTACAGCTGCAGACCAGGGGTGTTCTGTATAACAATCCATGCAGACTCCT
GGGGCCGGCTCTGGGCAGGCTGTGGCCTGGATGTGGCTGGGCCCTGGCCCTGCGCCAGGCCCTTCGTGG
CTCTCTACTACCTGTTTCAGTGAGCTTCCCCAGCCTGGCACTCAAGGATTCATCAGCCATGGGCTTAGC
CCCGGAGGACTCTCCAATGGGAGTAAGGAGGAATGCTACTGGGGCCATATCTTCTGGGATCAGGACATCT
GGATGTTCCAAATATTTTGTGTTCCACCCAGAAGCCGCGCAGGGCCATCCTAGAATACCGAGTCCGTAC
GCTGGGAGGAGCCCTGAAGAATGGCCAGAACCTGGGCTACCAGGGAGCCAAGTTTGTGGGAGAGTGCA
AGCACTGGCCTGGAGGTCTGCCCTGAGGACATTTATGGGACCCAGGAGATCCATATCAATGGGCTGTGG
CCTTGGCCTTTCAGCTGTATTACTATTACACTCAGGACTCGAAGCTCTTCCAAGAGGATGGTGGCTGGGA
TGTGGTCAGTTCTGTGGCTGAGTTTTGGTGTAGCCGTGTAGAATGGAGCTCCAGGACAAGATGTACCAC
CTGAAAGGAGTCAATGCCCCCGATGAGTACCATTACAGGAGTCAACAACCTCTGTCTACACCAATGTCTGG
TCCAGAACAGCCTGCACTTCGCTGCTGCTTTGGCCAAGGACTTGGGTTTGCCTATCCGAAAAAGTGGCT
GGAGGTGGCTGATAGGATCAAGATACCATTTGACTCTGAGCAGAACTTCCACCCTGAGTTTGTGGCTAT
GAGCGTGGAGAAGAGGTGAAGCAGGCAGATGTTGTGCTCCTGGGTACCCAGTCCCCTTCCCTGACAC
CTGACATCCGAAGGAAAACTTGGAGACTTATGAGGCCGTGACATCCCCCAGGGCCCTGCTATGACCTG
GAGCATGTTTGTGTGGGCTGGATGGAAGTGGGACCCCTCAAGGGCTCAGGTCCACCTGAGCAGGAGT
TTCGCCAATGCTACTGAGCCCTCAAGGTGTGGACGGAGAATGCAGACGGGTCTGGTGCAGTGAAGTCT
TGACTGGCATGGGGGCTTCCCTGCAGGCAGCACTTTCGGGTGCACAGGATTCAGGATCACTGAGGCAGG
TGTGACCTTTGACCCCTGTGTCCAGACCTGGTCTCCAGAGTATCTGTCTCTGGTATCTCTACCTGGGG
AACAAAGATCAACTTCGCCTTTTCCAAGGACTCGGTGACACTTGAGGTACAGCCCGTGCAGAGCCCTGGG
CACCCCTACTAGAAGCTGAGCTGTGGCCATCGCTGGCTCATCTTCCCCTGACACCAGGACAGAAGGTCTC
CTTCCCCACTCAGCTGGCCGATACAAAGTTCATCCCCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210060 representing NM_145387
 Red=Cloning site Green=Tags(s)

MDGSEDDPTIFSARCLPSDPR LWATVTNSYLGTRVYHDTIHINGVYNGAVGDTHRASLP SPLNVQLEAPA
 GTEQLTETFTLDTNTGSFLHTLEGPSFRASQRIY AHRVLP HVLVFSVSIARLT TGNKPI TVPLRADFSPE
 SPDLDLRVGPDFQGLRYLHGHLNPEQPGE PQEVHMLWMPVPPAL TLGEEEKDR TWEFL TVVGSSQAEA
 QDCFAEALQLQTRGVLYTIHADSWGRLWAGCGLDVAGPLALRQALRGS LYYLFSELPQPGTQGFISHGLS
 PGGLSNGSKEECYWGHI FWDQDIWMFPNILMFHPEAARAI LEYRVRTLGGALKNGQNLGYQGAKFAWESA
 STGLEVCPEDIYGTQEIHINGAVALAFQLYYYYTQDSKLFQEDGGWDVVSSVAEFWCSRVEWSSQDKMYH
 LKGVMPPEYHSGVNNSVYTNVLVQNSLHFAAALAKDLGLPIRKQWLEVADRIKIPFDSEQNFHPEFDGY
 ERGEEVKQADVLLGYPVPFPLTPDIRRKNLETYEAVTSPQGPAMTWSMF AVGWMLRDP SRAQVHL SRS
 FANVTEPFKVVW TENADGSGAVNFLTGMGGFLQAALFGCTGFRITEAGVTFDPLCPDLVSRVSVGSISYLG
 NKINFAFSKDSVTLEVTARAEPWAPLLEAELWPSLAHLPLTPGQKVSFPHSAGRIQRSSP

TRTRPLE - GFP Tag - V

Restriction Sites:

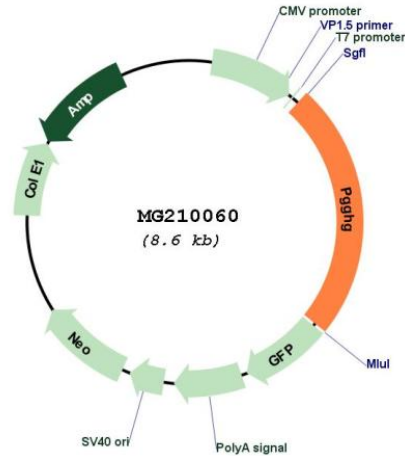
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_145387

ORF Size: 2070 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: 2976 bp

RefSeq ORF: 2073 bp

Locus ID: 212974

UniProt ID: [Q8BP56](#)

Cytogenetics: 7 F5

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]