

Product datasheet for **MG206181**

Pigk (BC060175) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pigk (BC060175) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pigk
Synonyms:	3000001O05Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206181 representing BC060175 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCCCCCTGCTTCCTCACTCTGCGGGTGGCTACCCTGGCCGCTTGGCGCTTTGTCTCTCGGCA
GCTCTGCCGCTGGACACATCGAGGATCAAGCCGAACAGTTCTTTAGAAGTGGACACAAATAACTGGGC
TGTTTTGGTGTGCACATCCCGATTCTGGTTAACTACCGACATGTTGCAAATACTCTTTCTGTTTATAGA
AGCGTCAAGAGGCTAGGTATCCCGACAGTCACATTGTCCTGATGCTTGCTGATGACATGGCGTGAATG
CTCGGAACCCCAAGCCAGCCACAGTGTTTCAGCCACAAGAACATGGAGCTCAATGTGTATGGAGACGATG
GGAAGTGGACTACAGAAGCTATGAGGTAAGTGTGGAAGCTTTTAAAGGGTATTGACCGGAGGGTTCCA
CCCAGTACCCCTCGCTCAAAGCGTCTTCTTTCCGACGACAGAAGCAATATCCTCATTTATATGACAGGTC
ATGGAGGGAATGGTTTCTTGAATTTCCAAGATTCTGAAGAAATCACCAACATAGAAGTTGACAGTGCCTT
TGAACAGATGTGGCAGAAGAGACGCTACAATGAGCTGCTGTTTATTGACACTTGCCAGGGCGCGTCC
ATGTACGAGCGGTTCTACTCTCCTAACATCATGGCCTTGGCTAGTAGCCAGGTGGGAGAGGATTGCTGT
CGCACCAGCCTGACCCTGCGATTGGAGTTCATCTTATGGATAGGTACACGTTTTATGTCTTGAATTTTT
GGAAGAAATTAATCCAGTAGCCAACTAACATGAACGACCTTTTTCAAGTGTGTCCAAAAGTCTCTGT
GTGTCGACCCCTGGACATCGCACTGACCTTTTCCAGCGAGATCCAAAAATGTCCTGATCACCGATTCT
TCGGAAGTGTGCGCAAGGTGAAAATCACAAACAGAGAAGATCAGTTTGCAGTGGGATTACAAGTCGTGGA
CAGCAGTTCTAAAGAAGACGGCACGGCCGAGGAGCGCATGGGACCTCTCAAGTATGCTGAGCAGCTCCCG
GTGGCTCAGATAATACCCAGAAGCCAAAGCCGAGAGACTGGCACCCCTCCCGGAGGCTTCATCTGGGGC
TGTGGCGCTCATCATATGGTCTTCTTCAAGACCTATGGGATCAAGCATATGAAGTTTCATTTTC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206181 representing BC060175
 Red=Cloning site Green=Tags(s)

MAAPCFLTLRVATLAALALLSLGSSAAGHIEDQAEQFFRSGHNTNNAVLVCTSRFWFNRYRHVANTLSVYR
 SVKRLGIPDSHIVLMLADDMACNARNPKPATVFSHKMELNVYGDDEVDYRSYEVTVENFLRVLTGRVP
 PSTPRSKRLSDDRSNLIYMTGHGGNGFLKFQDSEETINIELADAFEQMWQKRRYNELLFIDTCQGAS
 MYERFYSPNIMALASSQVGEDSLSHQPDPAIGVHLMDRYTFYVLEFLEEINPASQTNMNDLFQVCPKSLC
 VSTPGHRTDLFQRDPKNVLIITDFGFSVRKVEITTEKISLQWDSQVVDSSSKEDGTAERMGPLKYAEQLP
 VAQIIHQPKPRDWHPPGGFILGLWALIIMVFFKTYGIKHMKIF

TRTRPLE - GFP Tag - V

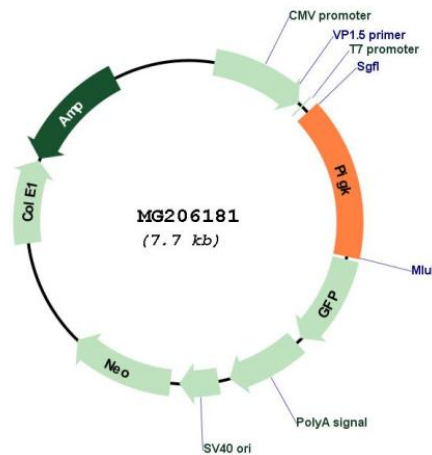
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

BC060175

ORF Size:	1187 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:	<ol style="list-style-type: none">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:	BC060175 , AAH60175
RefSeq Size:	4829 bp
RefSeq ORF:	1187 bp
Locus ID:	329777
Cytogenetics:	3 H3
Gene Summary:	Mediates GPI anchoring in the endoplasmic reticulum, by replacing a protein's C-terminal GPI attachment signal peptide with a pre-assembled GPI. During this transamidation reaction, the GPI transamidase forms a carbonyl intermediate with the substrate protein (By similarity). [UniProtKB/Swiss-Prot Function]