

Product datasheet for **MG214261**

Pgbd5 (NM_171824) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pgbd5 (NM_171824) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pgbd5
Synonyms:	2900019M05Rik; AI854313
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG214261 representing NM_171824 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCACCCAGCGCTAGCGCGGTGGACTTCTTCCAGCTCTTCGTCGCCGACAACGTGCTCAAGAACATGG
TGGTACAGACCAACATGTATGCCAGGAAGTTCAGGAGCGGTTTGGCAGTGACGGTGCCTGGGTGGAGGT
GACGTTGGCAGAGATGAAGGCCTTCTGGGCTATGTGATCTCCACCAGCGTCTCGACTGTGAGTCGGTA
CTCAGCATTGGAGCGGAGGCTTCTATAGCAACCGGAGCCTTGCCTCGTCATGAGCCAGGCCCGCTTCG
AGAAAATCCTCAAGTACTTCCATGTTGTGGCCTCCGATCCAGCCAGACCACGCATGGGCTCTACAAGGT
CCAGCCCTTCTCGACTCCCTGCAGAGTGGCTTTGATGCTGCTTTCAGGCCGTCTCAGACCCAGGTGCTA
CATGAACCCCTGATTGACGAGGACCCCTGTGTTCAATTGCCACGTGCACGGAGCGAGAGCTGCGGAAGAGGA
AAAAGCGGAAATTCAGCCTGTGGGTCCGCCAGTCTCTCAACCGGGTTCATCATCCAGATCTACGTCCA
CCTAAAGGAAGGTGGTGGCCAGATGGCCTGGACGCTCTGAAGAACAAGCCACAGCTGCACAGCATGGTG
GCCCGGAGCCTGTGCCGAACCGCGGCCGAAAGAACTATATCATCTTTACAGGGCCAGCATCACCAGCC
TCAATCTGTTGGAAGAATTTGAGAAGCAAGGGATCTACTGCTGTGGCCTCCTCAGCTCTAGGAAGAGTGA
CTGCACAGGTCTCCCTCCATCCATGTTGACCAACCCTGCCACCCCACTCGCCCGGGCCAGCACCAGATC
AGGACAAAGGGCAACATGTCATGATCTGCTGGTACAACAAGGGGCACTCCGCTTCTGACCAACGCCT
ACTCCCCTGTGCAGAAAGCGTCACTCATCAAGAGGAGGAGTGGGAAATCCCCTGCCTCTGGCCGTGGA
GGCCTTTGCGGCTCACCTCAGCTACATCTGCAGATATGACGATAAGTACAGCAAGTATTTTCATCTCTCAC
AAGCCAAACAAGAGCTGGCAGCAAGTGTCTGTTTCGCCATCAGCATCGCCGTCAACAACGCCTACATCC
TGTACAAAATGTCAGACGCCTACCAGTGAAGAAGTACAGCCGGGCACAGTTCGGAGAGAGACTTGTGAG
GGAGTTGCTGGGCTTGGAGGACTCATCGCCAGCCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG214261 representing NM_171824
Red=Cloning site Green=Tags(s)

MPPSASAVDFFQLFVPDNLKMMVVQTNMYARKFQERFGSDGAWVEVTLAEMKAFLGYVISTSVSHCESV
 LSIWGGFYNSRLALVMSQARFEKILKYFHVVAFRSSQTHGLYKVPFLDSLQSGFDAFRPSQTQVL
 HEPLIDEDPVFIATCTERELRKRKRKFSLVWRQCSSTGFI IQIYVHLKEGGPDGLDALKNKQLHSMV
 ARSLCRNAAGKNYIIFTGPSITSLNLFEEFEKQGIYCCGLLSSRKSDCTGLPPSMLTNPATPLARGQH
 RTKGNMSLICWYNKGHFRFLTNAYSVPVQGVIIKRRSGEIPCPLAVEFAAHLSYICRYDDKYSKYFISH
 KPNKTWQQVWFVAISIAVNNAYILYKMSDAYHVKKYSRAQFGERLVRELLGLEDDSSPAH

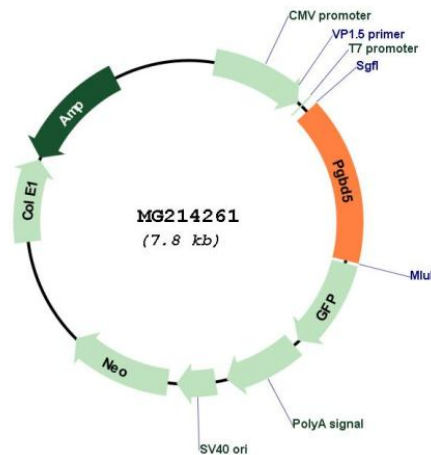
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_171824

ORF Size:	1227 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	NM_171824.2 , NP_741958.1
RefSeq Size:	2854 bp
RefSeq ORF:	1230 bp
Locus ID:	209966
UniProt ID:	D3YZI9
Cytogenetics:	8 E2
Gene Summary:	<p>The piggyBac family of proteins, found in diverse animals, are transposases related to the transposase of the canonical piggyBac transposon from the moth, <i>Trichoplusia ni</i>. This family also includes genes in several genomes that appear to have been derived from the piggyBac transposons. This gene belongs to the subfamily of piggyBac transposable element derived (PGBD) genes. The PGBD proteins appear to be novel, with no obvious relationship to other transposases, or other known protein families. The exact function of this gene is not known. [provided by RefSeq, Jul 2008]</p>