

Product datasheet for **RG230508**

PGBD1 (NM_001184743) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PGBD1 (NM_001184743) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PGBD1
Synonyms:	dj874C20.4; HUCEP-4; SCAND4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG230508 representing NM_001184743
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTATGAAGCTTTGCCAGGCCCTGCTCCTGAAATGAAGATGGCCTTGTGAAAGTGAAGGAGGAAGATC
CCACCTGGGAGCAGGTGTGCAACTCACAGGAGGGCAGCTCCACACTCAGGAGATTTGCCGCTGCGCTT
TCGGCACTTCTGTACCAGGAGGCTCACGACCCAGGAAGCTCTGGCCCACTCCGAGAATTTGTCAT
CAATGGCTGAGACCGGAGATGCACACCAAGGAACAGATAATGGAAGTCTGGTGTGAGAGAGTTCCTGA
CCATCCTGCCAAGGAGCTCCAGCCCTGTGTGAAGACATATCCTCTGGAGAGTGGAGAGGAGGCAGTGAC
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GACATGCACCCAATGGTGGCAGAATATCAAGGAGTCTCTTTGGAGTGTGAGAGCCTCCAGCTCCTGCCTG
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GAAATACAGGGTGAAGATAAGAAGCAAGAAATGGTACTCAATTTTGGTGAGCTACATGATTGATGTAGCC
ATGAACAATGCATGGCAACTACACAGAGCCTGTAAACCCAGGTGCTTCTCTAGACCCCTTGGATTTTCGGA
GATTTGTTGCACATTTCTACTTGAACACAATGCTCATCTGTCAGAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

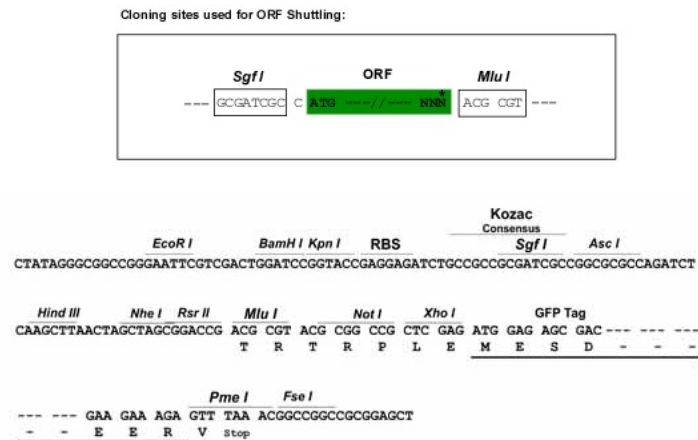
Protein Sequence: >RG230508 representing NM_001184743
 Red=Cloning site Green=Tags(s)

MYEALPGPAPENEDGLVKVKEEDPTWEQVCNSQEGSSHTQEICRLRFRHFCYQEAHGPEALAQRLRELCH
 QWLRPEMHTKEQIMELLVLEQFLTILPKELQPCVKTYPLESGEEAVTVLENLETGSGDTGQQASVYIQGQ
 DMHPMVAEYQGVSLQCQLLPGITTLKCEPPQRPQGNPQEVSGPVPHGSAHLQEKNPRDKAVVPVFN
 VRSQTLVKTEETAQAVAAEKWSHLSTRRNLCGNSAQETVMSLSPMTEEIVTKDRLFKAQETSEEMEQ
 SGEASGKPNRECAPQIPICSTPIATERTVAHLNTLKDRHPGDLWARMHISSEYAAAGDITRKGRKKDKARV
 SELLQGLSFGSDSDVEKDNEPEIQPAQKKLVSCFPEKSWTKRDIKPNFSPWSALDSGLLNKSEKLN
 ELFELFFDDETFNLIVNETNNYASQKNVSLEVTQEMRCVFGVLLLSGFMRHPRREMYWEVSDTDQNLVR
 DAIRRRDRFELIFSNLHFADNGHLDQKDKFTKLRLIKQMNKNFLLYAPLEEYCFDKSMCECFDSDQFLN
 GKPIRIGYKIWCSTTTQGYLVWFEPYQEESTMKVDEDPDLGLGGNLVMNFADVLLERGQYPYHLCFDSFF
 TSVKLLSALKKKGVRATGTIRENRTEKCLMNVEHMKMKRGYDFRIEENNEIILCRWYGDGIISLCSN
 AVGIEPVNEVSCCDADNEEIPQISQPSIVKVYDECKEGVAKMDQIISKYRVRIRSKKWYSILVSYMIDVA
 MNNAWQLHRACNPGASLDPLDFRRFVAHFYLEHNAHLS

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_001184743
ORF Size:	2427 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_001184743.1](#), [NP_001171672.1](#)

RefSeq Size: 3155 bp

RefSeq ORF: 2430 bp

Locus ID: 84547

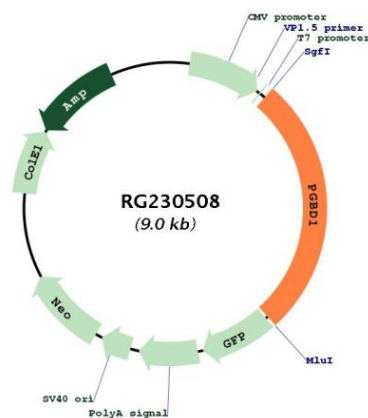
UniProt ID: [Q96JS3](#)

Cytogenetics: 6p22.1

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: The piggyBac family of proteins, found in diverse animals, are transposases related to the transposase of the canonical piggyBac transposon from the moth, *Trichoplusia ni*. This family also includes genes in several genomes, including human, 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. This gene product is specifically expressed in the brain, however, its exact function is not known. Alternative splicing results in multiple transcript variants encoding the same protein.[provided by RefSeq, May 2010]

Product images:



Circular map for RG230508