

Product datasheet for **RG223042**

PGBD1 (NM_032507) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PGBD1 (NM_032507) 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:

>RG223042 representing NM_032507
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGTATGAAGCTTTGCCAGGCCCTGCTCCTGAAAATGAAGATGGCCTTGTGAAAGTGAAGGAGGAAGATC
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CAATGGCTGAGACCGGAGATGCACACCAAGGAACAGATAATGGAAGTCTGGTGTGAGAGAGTTCTGTA
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

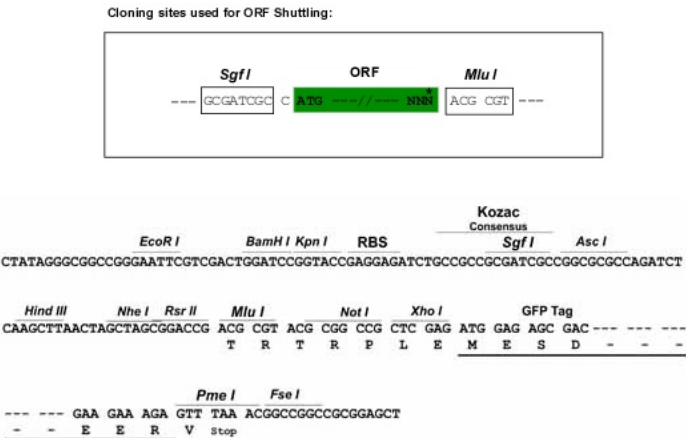
Protein Sequence: >RG223042 representing NM_032507
 Red=Cloning site Green=Tags(s)

MYEALPGPAPENEDGLVKVKEEDPTWEQVCNSQEGSSHTQEICRLRFRHFCYQEAHGPEALAQRLRELCH
 QWLRPEMHTKEQIMELLVLEQFLTILPKELQPCVKTYPLESGEEAVTVLENLETGSGDTGQQASVYIQGQ
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 SELLQGLSFGSDSDVEKDNEPEIQPAQKKLVSCFPEKSWTKRDIKPNFSPWSALDSGLLNKSEKLN
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 DAIRRRDRFELIFSNLHFADNGHLDQKDKFTKLRLIKQMNKNFLLYAPLEEYCFDKSMCECFDSDQFLN
 GKPIRIGYKIWCSTTTQGYLVWFEPYQEESTMKVDEDPDLGLGGNLVMNFADVLLERGQYPYHLCFDSFF
 TSVKLLSALKKKGVRATGTIRENRTEKCLMNVHEMMKMKRGYDFRIEENNEIILCRWYGDGIISLCSN
 AVGIEPVNEVSCCADNEEIPQISQPSIVKVYDECKEGVAKMDQIISKYRVRIRSKKWYSILVSYMIDVA
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

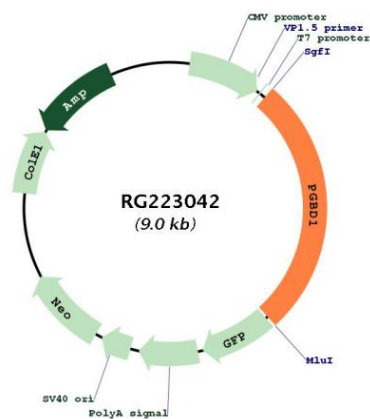
Cloning Scheme:



ACCN:	NM_032507
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_032507.3</u> , <u>NP_115896.1</u>
RefSeq Size:	3082 bp
RefSeq ORF:	2430 bp
Locus ID:	84547
UniProt ID:	<u>Q96JS3</u>
Cytogenetics:	6p22.1
Domains:	LER
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, <i>Trichoplusia ni</i>. 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 RG223042