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Product datasheet for RG208978

PGBD2 (NM_001017434) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PGBD2 (NM_001017434) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PGBD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG208978 representing NM_001017434
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAACTGCAATTTCCAGAAGCATGCACCCTTGGAAGAGTTCTACAGCTTTGGCGAGTCTATGTGTGAGT
ACTTTGGGCACCGGGGGTCCAAGCAGCTGCACAGGGGGAAGCCTGTGCGACTTGGCTACAAGATTTGGTG
TGGGACAACCAGCAGAGGCTACTTGGTGTGGTTTGAGCCCTCACAGGGCACACTGTTTACCAAGCCAGAC
AGGAGCTTGGATCTAGGAGGCAGTATGGTAATAAAATTTGTGGATGCGCTTCAGGAGCGTGGTTTTCTGC
CATATCACATATTTTTTGACAAGGTTTTCACAAGTGTTAAACTGATGTCCATTTTGAGGAAAAAGGGGGT
GAAAGCCACAGGAACTGTTCGTGAGTACAGGACTGAGCGATGTCCCCTAAAAGACCCCAAAGAACTGAAA
AAAATGAAGAGGGGTTCATTTGATTACAAAGTCGATGAGAGTGAGGAGATCATCGTGTGCCGCTGGCACG
ATAGCAGCGTGGTCAACATTTGCTCCAATGCTGTGGGCATAGAGCCAGTGAGGCTGACCAGTCGTCACTC
TGGAGCAGCTAAAACGCGGACTCAGGTCCACCAGCCATCACTGGTGAAGCTGTATCAGGAGAAGGTGGGT
GGCGTTGGTAGGATGGATCAGAATATTGCCAAGTACAAGGTGAAGATCCGAGGCATGAAGTGGTACTCAA
GCTTTATTGGCTATGTCATTGATGCTGCCCTCAACAATGCATGGCAGCTGCATAGAATCTGCTGCCAAGA
TGCCCAGGTGGACCTCCTTGCCTTCCGGAGATACATTGCCTGTGTGTATCTGGAGAGCAATGCTGACACA
ACATCTCAAGGGAGGCGAAGCAGGCGGTTGGAGACTGAGAGCCGCTTCGATATGATTGGGCACTGGATTA
TCCATCAGGACAAGAGGACCCGGTGTGCCCTCTGCCACTCACAGACCAACACCCGGTGTGAGAAGTGCCA
GAAGGGTGTCCATGCCAAATGCTTCAGGGAGTACCACATCCGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

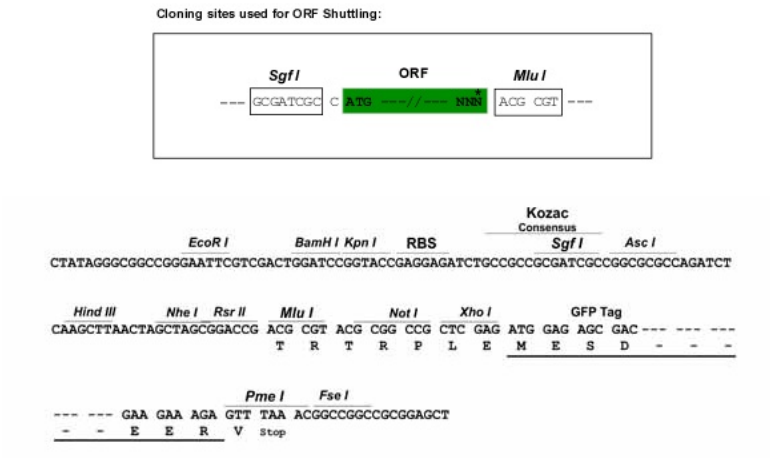
>RG208978 representing NM_001017434
Red=Cloning site Green=Tags(s)

MNCNFQKHAPLEEFYSFGESMCEYFGHRGSKQLHRGKPVRLGYKIWCGTTSRGYLVWFEPSQGTLFTKPD
RSLDLGGSMVIKFVDALQERGFLPYHIFFDKVFTSVKLMSILRKKGVKATGTVREYRTERCPLKDPKELK
KMKRGSFDYKVDESEEIIVCRWHDSSVVNICSNAVGIEPVRLTSRHSGAAKTRTQVHQPSLVKLYQEKVG
GVGRMDQNIAKYKVKIRGMKWYSSFIGYVIDAALNNAWQLHRICCQDAQVDLLAFRRYIACVYLESNADT
TSQGRRSRRLETESRFDMIGHWIIHQDKRTRCALCHSQTNTRCEKCQKGVHAKCFREYHIR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001017434

ORF Size: 1023 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_001017434.1, NP_001017434.1

RefSeq Size: 2035 bp

RefSeq ORF: 1026 bp

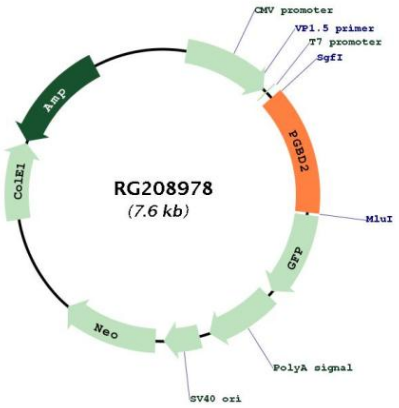
Locus ID: 267002

UniProt ID: Q6P3X8

Cytogenetics: 1q44

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. The exact function of this gene is not known. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG208978