

Product datasheet for **RC212567**

PGBD4 (NM_152595) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PGBD4 (NM_152595) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PGBD4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC212567 representing NM_152595
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCAAATCCTAGAAAACGTAGCATTCTATGCGTGATAGTAATACCGTCTCGAACAGTTGTTGGCTG
 AAGATTCATTTGATGAATCTGATTTTCGGAATAGATGATTCTGATAATTTTCGGATAGTGCTTTAGA
 AGCCGATAAGATCAGGCCTCTGTCCATTAGAATCTGATGGAAGAGCTCTACATCAAGTGACTCAGGG
 CGCTCCATGAAATGGTCAGCTCGTGCTATGATTCCACGTCAAAGGTATGACTTTACCGGCACACCTGGCA
 GAAAAGTCGATGTCAGTGATCACTGACCCATTGCAGTATTTTGAAGTGTCTTTACTGAGGAATTAGT
 TTCAAAAATTACTAGAGAAACAAATGCCAAGCTGCCTTGTGGCTTCAAAGCCACCGGGTCGAAAGGA
 TTTTCGCGAATGGATAAATGGAAAGACACTGACAATGACGAGCTCAAAGTCTTTTTGTCAGTAATGTTAC
 TGCAAGGTATTGTGCAGAAACCTGAGCTGGAGATGTTTTGGTCAACAAGGCCTCTTTGGATACACCTTA
 TCTCAGGCAAATTATGACTGGTGAAGATTTTACTTTTGTTCGGTGCCTGCATTTTGTCAACAATTCT
 TCTATATCTGCTGGTCAATCAAAGGCCAGATTTCAATGCAGAAGATCAAACCTGTGTTTCGACTTTCTTG
 TAAATAAATTTTCCACTGTATATACTCCAAACAGAAACATTGCAGTTGATGAATCACTGATGCTGTTCAA
 GGGGCCATTAGCTATGAAGCAGTACCTCCCGACAAAACGAGTACGATTTGGTCTGAAGCTATATGTAAT
 TGTGAAAGTCAGTCTGGTTATGTGTGGAATGCGCTTGTTCACACAGGGCCTGGCATGAATTTGAAAGATT
 CAGCGGATGGCCTGAAATCATCACGATTGTTCTTACCTTGGTCAATGACCTTCTGGCCAAAGGGTATTG
 TGTCTTCTCGATAACTTTAATATATCTCCCATGCTTTTCAGAGAATTACATCAAAATAGGACTGATGCA
 GTTGGGACAGCTCGTTTGAACAGAAAACAGATTCAAATGATCTGAAAAAAGGATTGCAAGGGGACGA
 CTGTAGCCAGATTCTGTGGTGAAGTATGGCACTGAAATGGTGTGACGGCAAGGAGGTGACAATGTTGTC
 AACATTCACAATGATACTGTGATTGAAGTAAACAATAGAAATGGAAGAAAACTAAAAGGCCACGTGTC
 ATTGTGGATTATAACGAGAATATGGGAGCAGTGGACTCGGCTGATCAAATGCTTACTTCTTATCCATCTG
 AGCGCAAAAGACACAAGGTTTGGTATAAGAAATTTCTTCCACATCTTCTACACATTACAGTGCTGAAGTC
 CTACATCTGTTCAAGAAGGATAATCCTGAGCACAGATGAGCCATATAAACTTCAGACTGGCATTGATT
 GAAAGAATGCTGGAAAAGCATCACAAGCCAGGGCAGCAACATCTCGAGGTCGTCCTTGTCCGATGATG
 TCACACCTCTTCGTCTGTCTGGAAGACATTTCCCAAGAGCATACCAGCAACGTCGGGAAACAGAAATCC
 AACTGGTCGCTGCAAAATTTGCTGCTCCCAATACGACAAGGATGGCAAGAAGATCCGGAAGAAACGCGC
 TATTTTGTGCCGAATGTGATGTTCCGCTTTGTGTTGTTCCGTGCTTTGAAATTTACCACACGAAAAAA
 ATTAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC212567 representing NM_152595
 Red=Cloning site Green=Tags(s)

MSNPKRSIPMRDSNTGLEQLLAEDSFDESDFSEIDSDNFSDSALEADKIRPLSHLES DGKSSTSSDSG
 RSMKWSARAMIPRQRYDFTGTPGRKVDVSDITDPLQYFELFFTEELVSKITRETNAQAALLASKPPGPKG
 FSRMDKWKDNDDELKVFFAVMLLQGIVQKPELEMFWSTRPLLDTPYLRQIMTGERFLLFRCLHFVNNS
 SISAGQSKAQISLQKIKPVDFLVNKFSTVYTPNRNIAVDES LMLFKGPLAMKQYLPTRKRVFGLKLYVL
 CESQSGYVWNLVHTGPGMNLKDSADGLKSSRIVLTLVNDLLGGYCVFLDNFNISPMLFRELHQNRDA
 VGTARLNRKQIPNDLKKRIAGTTVARFCGELMALKWCDGKEVTMLSTFHNDTVIEVNNRNGKTKRPRV
 IVDYNENMGAVDSADQMLTSYPSEKRHKVWYKKFFHLLHITVLNSYILFKKDNPEHTMSHINFRAL I
 ERMLEKHHKPGQQLRGRPCDDVTPLRLSGRHFPKSIPATSGKQNPTRCKICCSQYDKDGKKIRKETR
 YFCAECDVPLCVVPCFEIYHTKKNY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8103_b01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_152595

ORF Size: 1755 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: [NM_152595.5](#)

RefSeq Size: 2318 bp

RefSeq ORF: 1758 bp

Locus ID: 161779

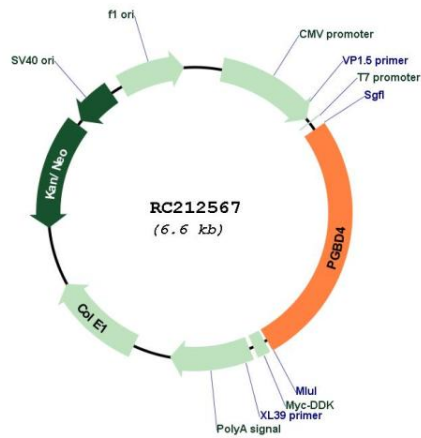
UniProt ID: [Q96DM1](#)

Cytogenetics: 15q14

MW: 67 kDa

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. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC212567