

Product datasheet for **SC108261**

PGBD2 (NM_170725) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PGBD2 (NM_170725) Human Untagged Clone
Tag:	Tag Free
Symbol:	PGBD2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_170725, the custom clone sequence may differ by one or more nucleotides

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ATGGCTTCAACATCCAGAGATGTCATTGCTGGGAGAGGTATCCACTCAAAGGTGAAGTCTGCAAAGCTGC
TTGAGGTTCTGAATGCTATGGAGGAGGAAGAGTCCAACAACAACAGGGAAGAGATTTTCATTGCACCTCC
CGACAATGCTGCGGGGAATTCAGTATGAGGACTCAGGGGATGAAGACAGCCAGCGAGGTGCTCACCTA
CCTGGCAGTGTGCTGCATGCTTCACTCCTGTGTGAGGACTCTGGCACCGGGGAGGATAATGACGACCTGG
AGCTGCAGCCAGCCAAGAAGAGGCAGAAAGCAGTTGTGAAACCTCAGCGCATTTGGACCAAAAGAGATAT
TCGTCCAGACTTTGGCAGTTGGACTGCATCAGATCCTCATATTGAGGATCTGAAAAGCCAAGAGCTGAGT
CCCGTGGGCCCTTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTT
ATGCTTGGCAGAAAAATGTCAATTTGAGTCTTACGGCTCAGGAATTGAAGTGTGTTTGGGCATTTTGTG
TTTAAGTGGGTACATCTTATCCAAGGAGAAGGATGTTCTGGGAAACCTCTCCGATTACATCATCATCAT
CTTGTGGCTGATGCAATTAGAAGGGACAGATTTGAACTAATCTTCTCATACTTACATTTTGCAGATAACA
ACGAACCTTGATGCAAGTGATAGGTTTGCCAAGGTCAGACCTCTCATCATCCGGATGAAGTCAATTTCCA
GAAGCATGCACCTTTGGAAGAGTTCTACAGCTTTGGCGAGTCTATGTGTGAGTACTTTGGGCACCGGGGG
TCCAAGCAGCTGCACAGGGGGAAGCCTGTGCGACTTGGCTACAAGATTTGGTGTGGGACAACCAGCAGAG
GCTACTTGGTGTGGTTTGTGAGCCCTCACAGGGCACACTGTTTACCAAGCCAGACAGGAGCTTGGATCTAGG
AGGCAGTATGGTAATAAAATTTGTGGATGCGCTTCAGGAGCGTGGTTTCTGCCATATCAGATATTTTGT
GACAAGGTTTTCAAGTGTAACTGATGTCCATTTTGTGAGGAAAAAGGGGTGAAAGCCACAGGAACTG
TTCGTGAGTACAGGACTGAGCGATGTCCCTAAAAGACCCCAAGAACTGAAAAAATGAAGAGGGGTTC
ATTTGATTACAAAGTCGATGAGAGTGAGGAGATCATCGTGTCCGCTGGCAGCATAGCAGCGTGGTCAAC
ATTTGCTCCAATGCTGTGGGCATAGAGCCAGTGAGGCTGACAGTCTGCTACTCTGGAGCAGCTAAACGC
GGACTCAGGTCCACAGCCATCACTGGTGAAGCTGTATCAGGAGAAGGTGGGTGGCGTTGGTAGGATGGA
TCAGAATATTGCCAAGTACAAGGTGAAGATCCGAGGCATGAAGTGGTACTCAAGCTTTATTGGCTATGTC
ATTGATGCTGCCCTCAACAATGCATGGCAGCTGCATAGAATCTGCTGCCAAGATGCCAGGTGGACCTCC
TTGCCCTCCGAGATACATTGCTGTGTGTATCTGGAGAGCAATGCTGACACAACATCTCAAGGGAGGCG
AAGCAGGCGGTTGGAGACTGAGAGCCGCTTCGATATGATTGGGCACTGGATTATCCATCAGGACAAGAGG
ACCCGGTGTGCCCTCTGCCACTCACAGACCAACACCCGGTGTGAGAAGTGCCAGAAGGGTGTCCATGCCA
AATGCTTCAGGGAGTACCACATCCGGTGA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_170725 unedited

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TTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCGCGACGCCCCGAC
GCCAACGCAGGCGCAGCGCTCCGATTCGGCGCGGCTCATGGTCCGGTTCGGGCTCGCGAG
TCTCCGTCTGGGGTAGGGCAGGTTCTTAGACTCTGTGAGTAAAGACAGCTTCATCTTCCC
AGTTCATCATGGCTTCAACATCCAGAGATGTCATTGCTGGGAGAGGTATCCACTCAAAGG
TGAAGTCTGCAAAGCTGCTTGAAGTCTGAATGCTATGGAGGAGGAAGAGTCCAACAACA
ACAGGGAAGAGATTTTCATTGCACCTCCCGACAATGCTGCGGGGGAATTCAGTATGAGG
ACTCAGGGGATGAAGACAGCCAGCGAGGTGCTCACCTACCTGGCAGTGTGCTGCATGCTT
CAGTCCTGTGTGAGGACTCTGGCACCGGGGAGGATAATGACGACCTGGAGCTGCAGCCAG
CCAAGAAGAGGCGAGAAAGCAGTTGTGAAACCTCAGCGCATTTGGACCAAAAGAGATATTC
GTCCAGACTTTGGCAGTTGGACTGCATCAGATCCTCATATTGAGGATCTGAAAAGCCAAG
AGCTGAGTCCCGTGGGCCCTTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTT
TTAATGAAACCAATCGTTATGCTTGGCAGAAAAATGTCAATTTGAGTCTTACGGCTCANG
AATTGAAGTGTGTTTGGGCATTNTGATTNTAAGTGGGTACATCTTATCCAAGAGAAN
GGAGGTCTGGGAACCCCTCTCCGATNACATCATCATCTTGTGGCTGATGCAATTANAAGG
GACAGATATGAACCTAATCTNCTCATACTTACATTNTGCAGATAACCACGAACTGN

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Restriction Sites: NotI-NotI
ACCN: NM_170725
Insert Size: 3000 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_170725.2</u> , <u>NP_733843.1</u>
RefSeq Size:	2712 bp
RefSeq ORF:	1779 bp
Locus ID:	267002
UniProt ID:	<u>Q6P3X8</u>
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, <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. 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] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).