

## Product datasheet for **SC302053**

### **PGBD2 (NM\_001017434) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PGBD2 (NM_001017434) Human Untagged Clone
Tag:	Tag Free
Symbol:	PGBD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC302053 representing NM_001017434. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG  
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**  
 ATGAATGCAATTTCCAGAAGCATGCACCTTGGAAGAGTTCTACAGCTTTGGCGAGTCTATGTGTGAG  
 TACTTTGGGCACCGGGGTCCAAGCAGCTGCACAGGGGAAGCCTGTGCGACTTGGCTACAAGATTTGG  
 TGTGGGACAACAGCAGAGGCTACTTGGTGTGGTTTGGCCCTCAGAGGCACACTGTTTACCAAGCCA  
 GACAGGAGCTTGGATCTAGGAGGCAGTATGGTAATAAAATTTGTGGATGCGCTTCAGGAGCGTGGTTTT  
 CTGCCATATCACATATTTTTTGACAAGGTTTTCAAGTGTAACTGATGTCCATTTTGGGAAAAAG  
 GGGGTGAAAGCCACAGGAAGTTCGTGAGTACAGGACTGAGCGATGTCCCTAAAAGACCCCAAGAA  
 CTGAAAAAATGAAGAGGGTTTCATTTGATTACAAAGTCGATGAGAGTGAGGAGATCATCGTGTGCCGC  
 TGGCACGATAGCAGCGTGGTCAACATTTGCTCCAATGCTGTGGGCATAGAGCCAGTGAGGCTGACCAGT  
 CGTCACTCTGGAGCAGCTAAAACGCGGACTCAGGTCCACCAGCCATCACTGGTGAAGCTGTATCAGGAG  
 AAGGTGGGTGGCGTTGGTAGGATGGATCAGAATATTGCCAAGTACAAGGTGAAGATCCGAGGCATGAAG  
 TGGTACTCAAGCTTTATTGGCTATGTCATTGATGCTGCCCTCAACAATGCATGGCAGCTGCATAGAATC  
 TGCTGCCAAGATGCCAGGTGGACCTCCTTGCCTTCCGGAGATACATTGCCTGTGTGTATCTGGAGAGC  
 AATGCTGACACAACATCTCAAGGGAGGCGAAGCAGGCGGTTGGAGACTGAGAGCCGCTTCGATATGATT  
 GGGCACTGGATTATCCATCAGGACAAGAGGACCCGGTGTGCCCTCTGCCACTCACAGACCAACACCCGG  
 TGTGAGAAGTGCCAGAAGGGTGTCCATGCCAAATGCTTCAGGGAGTACCACATCCGGTGA  
**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT  
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_001017434
Insert Size:	1026 bp


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<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_001017434.1</a></u>
<b>RefSeq Size:</b>	2035 bp
<b>RefSeq ORF:</b>	1026 bp
<b>Locus ID:</b>	267002
<b>UniProt ID:</b>	<u><a href="#">Q6P3X8</a></u>
<b>Cytogenetics:</b>	1q44
<b>MW:</b>	39.6 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) uses an alternate splice site compared to variant 1. The resulting isoform (b) is shorter at the N-terminus compared to isoform a.</p>