OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC100698

PGBD3 (NM_170753) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PGBD3 (NM_170753) Human Untagged Clone
Tag:	Tag Free
Symbol:	PGBD3
Mammalian Cell Selection:	None
Vector:	pCMV6-XL6
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene ORF within SC100698 sequence for NM_170753 edited (data generated by NextGen Sequencing)

ATGCCTCGAACACTAAGTTTACATGAAATAACTGACCTTTTAGAGACAGATGACAGCATA
GAAGCAAGTGCTATAGTGATACAACCACCTGAAAATGCTACAGCACCTGTTTCTGATGAG
GAATCAGGAGATGAAGAAGGTGGAACAATAAATAATCTGCCAGGTTCTTTGTTGCACACA
GCTGCGTATCTTATTCAAGATGGCTCTGATGCTGAGTCTGACTCAGATGATCCCTCATAC
GCACCTAAAGATGACTCTCCTGATGAAGTTCCATCTACGTTTACTGTGCAGCAACCTCCA
CCATCAAGGAGGAGGAAAATGACAAAAATTCTTTGCAAATGGAAAAAAGCCGACCTAACT
GTACAACCCGTAGCAGGTAGAGTTACAGCACCACCAAACGATTTCTTCACCGTAATGAGA
ACTCCCACAGAAATTCTTGAACTTTTTCTTGATGACGAGGTCATTGAACTCATTGTCAAG
TACTCCAACTTATATGCTTGCAGTAAAGGTGTACATCTTGGCTTGACTAGCTCTGAATTC
AAATGTTTTCTGGGAATTATTTTTCTGAGTGGTTATGTCTCAGTTCCTAGAAGGCGTATG
TTTTGGGAACAAAGAACAGATGTGCATAATGTACTGGTTAGTGCTGCCATGAGACGTGAC
CGGTTTGAAACTATATTTTCTAATTTGCATGTTGCTGACAATGCAAATTTGGATCCAGTG
GACAAATTTTCCAAATTGCGACCTCTCATAAGCAAACTTAATGAGAGATGCATGAAATTT
GTTCCAAATGAAACATATTTCAGCTTTGATGAATTCATGGTTCCTTATTTTGGTCGTCAC
GGGTGCAAACAATTTATTCGGGGAAAGCCCATTCGGTTTGGCTATAAGTTTTGGTGTGGT
GCCACCTGTCTGGGCTACATTTGCTGGTTTCAGCCGTATCAGGGTAAAAACCCAAATACT
AAACATGAGGAATATGGTGTCGGTGCGTCACTTGTCCTTCAGTTTAGTGAGGCACTTACA
GAGGCACACCCTGGACAATACCATTTTGTATTCAATAACTTTTTCACCAGTATTGCACTT
CTTGATAAGCTCAGTTCAATGGGACATCAGGCAACAGGTACAGTGAGAAAGGATCACATT
GACAAAGTTCCACTGGAATCAGATGTAGCTTTAAAGAAAAAAGAAAGAGGCACATTTGAT
TATCGAATTGATGGCAAAGGCAATATTGTCTGCAGATGGAATGATAACAGTGTTGTCACT
GTTGCCTCATCTGGTGCTGGTATCCATCCCCTGTGTCTTGTCAGTCGTTACTCCCAGAAA
CTGAAAAAGAAGATACAAGTTCAGCAGCCAAACATGATCAAAGTGTATAACCAGTTCATG
GGAGGCGTAGACAGAGCTGATGAAAACATTGATAAGTATCGGGCATCAATCCGTGGAAAG
AAATGGTATTCAAGCCCTCTTTTGTTCTGTTTCGAATTGGTCTTACAAAATGCTTGGCAA
TTGCATAAAACATATGATGAGAAACCAGTGGATTTTCTGGAGTTTCGTCGACGTGTGGTA
TGCCATTATCTGGAGACCCATGGTCATCCTCCAGAACCTGGCCAAAAAGGAAGACCTCAG
AAGCGTAACATTGACTCACGTTATGATGGCATAAATCATGTGATAGTCAAACAGGGAAAG
CAAACGCGATGCGCTGAATGTCATAAGAACACAACTTTTCGATGTGAAAAATGTGATGTT
GCCTTACATGTGAAGTGTTCCGTTGAATATCACACTGAATAG

Clone variation with respect to NM_170753.2
1145 g=>a;1477 c=>t

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_170753 unedited
AACCCCCGCCCGTTGCCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCA
GAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTTCTTTTTGCAGCGGCCGCGA
ATTCGGCACGAGGGACTTTTTCCCAAGTTCTGGGGAAGAAGCTGAAGCTGCTTCTGTAGG
AGAAGGAGGAGGAGGAGGTCGGAAAGTGGGAAGATACCGAGATGATGGAGATGAAGATTA
TTATAAGCAGCGGTTAAGTCCCAAGATGCCTCGAACACTAAGTTTACATGAAATAACTGA
CCTTTTAGAGACAGATGACAGCATAGAAGCAAGTGCTATAGTGATACAACCACCTGAAAA
TGCTACAGCACCTGTTTCTGATGAGGAATCAGGAGATGAAGAAGGTGGAACAATAAATAA
TCTGCCAGGTTCTTTGTTGCACACAGCTGCGTATCTTATTCAAGATGGCTCTGATGCTGA
GTCTGACTCAGATGATCCCTCATACGCACCTAAAGATGACTCTCCTGATGAAGTTCCATC
TACGTTTACTGTGCAGCAACCTCCACCATCAAGGAGGAGGAAAATGACAAAAATTCTTTG
CANATGGAAAAAAGCCGACCTAACTGTACCACCCGTAGCAGGTAGAGTTACAGCACCACC
AAACGNATTCTTCACCGNTATGAGAACTNCCCACAGAATNCNTTGACTTNTCTTGATGAC
GAGGTCATTTTGACTCATTGTCAGTACTCCAACTTATATGCTTGCAGTAAAGGTGTACAT
CTTGGNCTGACTAGCTCTGAATNCAATGGTTTCTGGGGAATATTNTTCTGAGTGGGTATG
TCTCAGTTCCTAGAAGGCGTATGTTTTGGGAACAAAGNACAGATGTGCATAATGTACTGG
TANTGCTGCATGAAAACTGACCGGNTTGAACTTATT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_170753 unedited
NCGACCATTGGATGATGGCACTTTCCAGGNCCAGNAAAGCACTGGGGAAGGGGTACACAG
GGCATGCCACCCGGGTATCTGTTCAGGAAAACAGCTATGACCGCGGCCGCAATCTAGAGT
CGAGTTTTTTTTTTTTTTTTTCTATTGTAATATTTTTATGTTGCAAGGATCATTGTACA
CAGAGCAGTTTAAATCTACACCGTCTGTAAGGAAAAAGCTGTGTATCATACAGTTAAATC
ATTCTTAATACAGAGTGACATTTCAACCTCAAGATCATTCTCTACCTATTGCAATATCCA
TTTAAGAAATTCAACAACAGAGGCACAATGAGTACAATTTGATTTTTAAAAATATATTCA
GGCACCAAGCTGGGTATTTAATATAGTTTGCATTCTGTAGTATGATAGGTTTTCTATTTC
AGACAGCTAAGAATCCCTTACAGATTAGTCTAATTTGCTAAATTGAGATACTTGGTGTTT
TACTTTTCTTATCTTCCTTTTTATGGTCTATCTGGGTAAACTTAATTGGCACATCTGAGC
AGATGAAATACCCTCAGTTAGGAGTGCAGATCTCATGGAGTAAATTAAGACTGATATAGA
CAATTATGCCCAGAGCCAAGAATGAAAGGTGTGTGCAGAGCAGGAAGCAGAATTAGTCTT
CATTTGTGTCTCAGCTTTGTTATTTAAAAGAAGGCAATGTGCTCTCTAAGAAAAATCTTT
AACCCATTTATGTNCTGAGGTTACAATTTTTTTGAATTTTTGCATGANATTCATATATGT
TACCTAGAAAATTCNAGGAACAAAATTTTGAAGAGAAAAAAAAATTTATATGNTCCATTG
TTAAGGTGACGTTCCAAAATTGAACACTNAGCAAAACCCTGCTACCTGTACATAATGTAT
AAACTATGTTCTTATCTAGGGAGGTGG

Restriction Sites: NotI-NotI

ACCN: NM_170753

Insert Size: 2500 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:	NM_170753.1, NP_736609.1
RefSeq Size:	2198 bp
RefSeq ORF:	1782 bp
Locus ID:	267004
UniProt ID:	Q8N328
Cytogenetics:	10q11.23
Gene Summary:	This gene is a member of a small family of genes derived from piggyBac transposable elements. The encoded protein contains a zinc-ribbon domain characteristic of transposon-derived proteins and may function as a regulator of transcription. Alternative splicing occurs between a splice site from exon 5 of the adjacent upstream gene 'excision repair cross-complementation group 6' (ERCC6, GeneID: 2074) and the 3' splice site upstream of the open reading frame (ORF) of this gene, which activates the alternative polyadenylation site downstream of the piggyback-derived-3 ORF. The resulting transcripts encode a fusion protein that shares sequence with the product of each individual gene. Pseudogenes for this gene are defined on chromosomes 4, 5 and 12. [provided by RefSeq, Mar 2016]