

Product datasheet for **RC223042**

PGBD1 (NM_032507) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | PGBD1 (NM_032507) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | PGBD1 |
| Synonyms: | dj874C20.4; HUCEP-4; SCAND4 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>RC223042 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTATGAAGCTTTGCCAGGCCCTGCTCCTGAAAAATGAAGATGGCCTTGTGAAAGTGAAGGAGGAAGATC
 CCACCTGGGAGCAGGTGTGCAACTCACAGGAGGGCAGCTCCACACTCAGGAGATTTGCCGCTGCGCTT
 TCGGCACTTCTGTACCAGGAGGCTCACGGACCCAGGAAGCTCTGGCCAACTCCGAGAACTTTGTCAT
 CAATGGCTGAGACCGGAGATGCACACCAAGGAACAGATAATGAACTGCTGGTGTGAGAGGAGGAGGAGT
 CCATCCTGCCAAGGAGCTCCAGCCCTGTGTGAAGACATATCCTCTGGAGAGTGGAGAGGAGGAGGAGT
 AGTGTGGAGAATCTAGAGACAGGAAGTGGAGACACAGGACAACAGGCCCTCTGTCTATATTCAGGGACAG
 GACATGCACCCAATGGTGGCAGAATATCAAGGAGTCTCTTTGGAGTGTGAGAGCCTCCAGCTCTGCCTG
 GGATAACCACCCTGAAGTGTGAACCTCCACAGCGTCTCAAGGGAACCCCAAGAAAGTGAAGTGGCCTGT
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 AGTGGAGAAGCCTCAGGAAAGCCCAACAGAGAGTGTGACCCAGATTCTTGTAGTACTCCTATTGCTA
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 AGTGAAGTCTCCAAGGCCTCTCATTCTCTGGTACTCAGATGTGAAAAAGATAATGAGCCTGAGATCC
 AGCCTGTCAAAGAAGTTAAAGGTATCATGTTTCCAGAAAAGAGTTGGACCAAAAAGAGACATTAACC
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 GAGCTTTTTGAATTATTTTTGATGATGAAACATTCAACTTAATTGTCAATGAAACCAATAATTATGCTT
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 ATGAACAATGCATGGCAACTACACAGAGCCTGTAAACCCAGGTGCTTCTAGACCCCTTGGATTTTCGGA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC223042 protein sequence
Red=Cloning site Green=Tags(s)

MYEALPGPAPENEDGLVKVKEEDPTWEQVCNSQEGSSHTQEICRLRFRHFCYQEAHGPQEALALRELCH
QWLRPEMHTKEQIMELLVLEQFLTILPKELQPCVKTYPLESGEEAVTVLENLETGSGDTGQQASVYIQGQ
DMHMPVAEYQGVSLQCQLLPGITTLKCEPPQRPQGNPQEVSGPVPHGSAHLQEKNPRDKAVVPVFN
VRSQTLVKTEETAQAVAAEKWSLSTRRNLCGNSAQETVMLSLSPMTEEIVTKDRLFKAQETSEEMEQ
SGEASGKPNRECAPQIPCSTPIATERTVAHLNLTLDKDRHPGDLWARMHISSELYAAGDITRKGKDKARV
SELLQGLSFGSDSDVEKDNEPEIQPAQKLLKVSFCPEKSWTKRDIKPNFSPWSALDSGLLNKSEKLN
ELFELFFDDETFNLIVNETNNYASQKNVSLEVTVQEMRCVFGVLLLSGFMRHPRREMYWEVSDTDQNLVR
DAIRRRDRFELIFSNLHFADNGHLDQKDKFTKLRPLIKQMNKNFLLYAPLEEYCFDKSMCECFDSDQFLN
GKPIRIGYKIWCGTTTQGYLVWFEPYQEESTMKVDEDPDLGLGGNLVMNFADVLLERGGQYPYHLCFDSFF
TSVKLLSALKKKGV RATGTIRENRTEKCLMNVHEMCKMKG YDFRIEENNEIILCRWYGDGIIISLCSN
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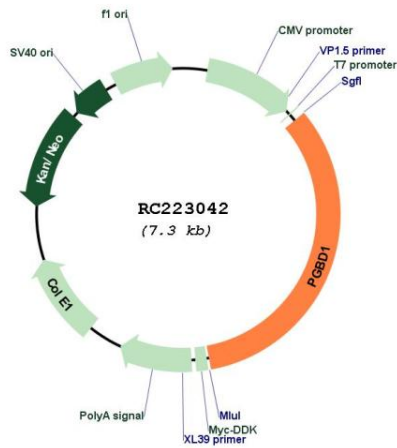
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Chromatograms: https://cdn.origene.com/chromatograms/mk6558_f11.zip

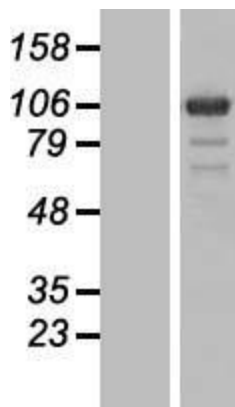
Restriction Sites: Sgfl-Mlul

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|-------------------------------|---|
| Reconstitution Method: | <ol style="list-style-type: none">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_032507.3 , NP_115896.1 |
| RefSeq Size: | 3135 bp |
| RefSeq ORF: | 2430 bp |
| Locus ID: | 84547 |
| UniProt ID: | Q96JS3 |
| Cytogenetics: | 6p22.1 |
| Domains: | LER |
| Protein Families: | Druggable Genome, Transcription Factors |
| MW: | 92.5 kDa |
| Gene Summary: | <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. This gene product is specifically expressed in the brain, however, its exact function is not known. Alternative splicing results in multiple transcript variants encoding the same protein.[provided by RefSeq, May 2010]</p> |

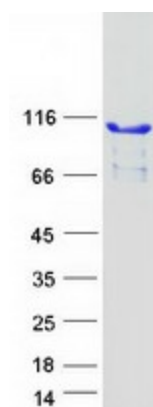
Product images:



Circular map for RC223042



Western blot validation of overexpression lysate (Cat# [LY410082]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223042 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PGBD1 protein (Cat# [TP323042]). The protein was produced from HEK293T cells transfected with PGBD1 cDNA clone (Cat# RC223042) using MegaTran 2.0 (Cat# [TT210002]).