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Product datasheet for SC103577

PACS2 (BC028418) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	PACS2
Synonyms:	PACS-2; PACS1L
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>NCBI ORF sequence for BC028418, the custom clone sequence may differ by one or more nucleotides

AGCGGAGGAGTATGAGAGCTTCTCCTCCGAGCAGGAGGCAAGTGACGACGCCGTGCAGGGGCAGGACTTG
GACGAGGACGACTTTGACGTGGGGAAGCCGAAGAAGCAGCGGAGATCGATTGTAAGAACGACGTCCATGA
CCAGGCAACAGAACTTCAAGCAGAAAGTGGTAGCGCTGCTGCGGAGGTTCAAAGTGTCCGACGAGGTCCT
GGACTCGGAGCAGGACCCTGCGGAGCACATCCCCGAGGCAGAGGAGGACCTGGACCTCCTGTATGACACC
CTGGACATGGAGCACCCCAGCGACAGCGGCCCCGACATGGAGGATGACGACAGCGTCCTCAGCACCCCCA
AGCCGAAGCTGCGGCCATACTTTGAAGGCCTGTCGCACTCGAGCTCGCAGACGGAGATTGGGAGCATCCA
CAGCGCCCGCAGCCACAAGGAGCCCAAGCCCGGCTGACGTGCCCGAGAAGACGCGGTCCCTGGGAGGCAG
GCAGCCGAGCGACAGTGTCTCTGACACGGTGGCCCTCGGTGTGCCAGGCCCGAGGGAGCACCCTGGACAG
CCTGAGGACAGCCCCGAGGCTGAGGCCTCCACCCTGGATGTGTTCACGGAGAGGCTGCCGCCCAGCGGGA
GGATCACCAAGACAGAGTCCCTTGTCATCCCCTCCACCAGGTCCGAGGGGAAGCAGGCTGGCCGACGGGG
CCGGAGCACATCCTTGAAGGAGCGGCAGGCAGCACGGCCCCAGAATGAACGGGCCAACAGCCTGGACAAC
GAGCGCTGCCCGGACGCCCGGAGCCAGCTACAGATCCCCAGGAAGACTGTGTATGACCAGCTCAACCACA
TCCTCATCTCCGATGACCAGCTTCCCGAAAACATCATCCTTGTCAACACCTCGGACTGGCAGGGGCAGTT
CCTCTCCGACGTCCTGCAGAGGCACACGCTCCCCGTGGTGTGCACGTGCTCTCCTGCGGACGTCCAGGCG
GCCTTCAGCACCATCGTCTCACGGATACAGAGATACTGCAACTGCAATTCCCAGCCCCCGACCCCCGTGA
AGATCGCCGTGGCGGGAGCGCAGCATTACCTCAGTGCCATCCTGCGGCTCTTTGTGGAGCAGCTGTCCCA
CAAGACACCCGACTGGCTCGGCTACATGCGCTTCCTGGTCATCCCACTGGGTGAGCACCACGCCGTCCAC
CTGGGCCTGGGCACAGATGCCACGGGCAGTGTGGCGTGGCATGGAGTGGTGTGGCGTGGCGTGGCGTGTT
GTGTGGCGTGGCGTGGCGCGGTGTGTCGTGGTGTGGCGCGGTGTGGCATGGCGTGGTGTCCCTGCTTGCT
ACACATTTGTTGTTTTTAAATGTTTGTTTGATACAGTAACACTTTGTTAATTTTAATTATATGCAAGATA
ACTTGATTGCCCTAAAACAGCCATTTGGGTCAAGATAAAGCCATCGCCCTCTGAAGGGGCCTGAGCTGGG
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GGCTCGTTATTAATCCTCTCAAATCGTCCAGGTCCTGTGTCGTCGAACTCCATTACTTCTTTAGGTCCAT
ACGATGTGTCTTACCACGAAACAAACCCACCCAGCCTTAATCTGTTGACCAGCAGCAAGGCCTGGAGGCG
ACACCTCTCCCGTGTGGCCCTCACGATGCCGACGTCAGAGCCCTGAGCCAGCCGAGGCCTCTGCACGGTC
ACATGTGCCCTGCTGGGCCTTCCTCAGTGGCACTCAGGGCTCTGGGACCTCAGCTCAGGGCTGGAGCTCC
TTCAGCGGGGCCACAGGCATCCACCAGGGAGGGGCAGTGGTGGCTTTCTCTTTCGGTGGCAGGAAAGTGG
GCTTGTCTGGAAGGCAGCAGCACAGGCCTGGGGTCGGGTGGCCCAGCTTTTGTGCCGCGGTGGGAGCCTT
GCAGCTCCGAGTCCCCCGTGGTGACACCAGCCCCACCCCTGGCATGCAGGCTCCCACCCCGTGGCCAGGT
ACCTAGGCTCCGTGGACTACCGCTACAACAACTTCTTCCAGGACCTGGCCTGGAGAGACCTGTTCAACAA
GCTGGAGGCCCAGAGTGCGGTACAGGACACGCCAGACATTGTGTCACGCATCACGCAGTACATCGCAGGG
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GTGCATTGAGGGCATCAGCCGGCTCATCTGCACTGCCAGGCAGCAGCAGAACATGCTGCGGGTCCTCATC
GACGGCGTGGAGTGCAGCGACGTCAAGTTCTTCCAGCTGGCCGCGCAGTGGTCCTCGCACGTGAAGCACT
TCCCCATCTGCATCTTCGGACACTCCAAGGCCACCTTCTAGCCCCACCCACCAGGGGGCCCACCTCCTGC
CCCATGCTGTGAGGGGCCCAGCTGCATTTCTGTTAACATTTCAGTTTACTACAGAGACAGACGCTTAAAA
CACAAAGAGAAACAGTCTTAAGTATGAATGTGCTCACAACGTGGAAACTAACGGGGGAGCTCCTGCCAGG
AGCCGAATAACTGCTCTGCTTATTAACCCGAACGTTCGGCCCGGGGCTGGGAAGCCAGAAGGACGATGCT
GAGCCATGGATCGCGGAAGGCGTCCTCTGGCCTCAGGAGCCACCCAGAGCCTCACAGGCTGAGTTCTTGC
CTCTGTGTCCTGTCCTTCCTGGAAGTCAGGACTCTGCTTCCTCAGGGAGCCCGGGGAAGGCGGAGCTCAG
TGGCCACAGGCCGAGGGCCATGGGGCCGCTCAGTCCCGTTGGGGTTGTCCTGAGTTGAGCCTGGGGGGGC
CGTCCTGCCCGCCTAAGAGATGCCCCCAGCACCGCACACTCGTGGTTCCCAATAAACTCCTGCCTGCGGC
GGAGGTTTTATAGCAGCAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for BC028418 unedited
CGCGTAATTCGCACGAGGGCCAGGTGCTGAGCCTCTGCAGCAGCATCAAGGAGGCCCCCG
TCAAGGCGGCCGAGATCTGGATCGCCTCCCTGTCCAGCCAGCCCATTGACCACGAAGACA
GCACCATGCAGGCCGGCCCCAAGGCCAAGTCCACGGATAACTACTCCGAGGAGGAGTATG
AGAGCTTCTCCTCCGAGCAGGAGGCCAGTGACGACGCCGTGCAGGGGCAGGACTTGGACG
AGGACGACTTTGACGTGGGGAAGCCGAAGAAGCAGCGGAGATCGATTGTAAGAACGACGT
CCATGACCAGGCAACAGAACTTCAAGCAGAAAGTGGTAGCGCTGCTGCGGAGGTTCAAAG
TGTCCGACGAGGTCCTGGACTCGGAGCAGGACCCTGCGGAGCACATCCCCGAGGCAGAGG
AGGACCTGGACCTCCTGTATGACACCCTGGACATGGAGCACCCCAGCGACAGCGGCCCCG
ACATGGAGGATGACGACAGCGTCCTCAGCACCCCCAAGCCGAAGCTGCGGCCATACTTTG
AAGGCCTGTCGCACTCGAGCTCGCAGACGGAGATTGGGAGCATCCACAGCGCCCGCAGCC
ACAAGGAGCCCCCAAGCCCGGCTGACGTGCCCGAGAAGACGCGGTCCCTGGGAGGCAGGC
AGCCGAGCGACAGTGTCTCTGACACGGTGGCCCCTCGTGTGNCCAGCCCGAGGNAGCACC
CTGNACAGCCTGAGGACAGCCCCGAGGCTGAGGCCTNCACCNNCTGGATGTGTCACGGGA
GAGGGCTGCCGCCCACGGGNAGGATCACCAGNACANATNCCCTTGTCATCCCCTNCACCC
AGTCCGAGGGGAAACANGCCTGCCNGACG

3' Read Nucleotide Sequence:

>OriGene 3' read for BC028418 unedited
NCCGTATTACTATGNACGCGGCCGCATTCTAGNGATCGGTTTTTTTTTTTTTTTTTTTTG
CTGCTATAAAACCTCCGCCGCAGGCAGGAGTTTATTGGGAACCACGAGTGTGCGGTGCTG
GGGGCATCTCTTAGGCGGGCAGGACGGCCCCCCCAGGCTCAACTCAGGACAACCCCAACG
GGACTGAGCGGCCCCATGGCCCTCGGCCTGTGGCCACTGAGCTCCGCCTTCCCCGGGCTC
CCTGAGGAAGCAGAGTCCTGACTTCCAGGAAGGACAGGACACAGAGGCAAGAACTCAGCC
TGTGAGGCTCTGGGTGGCTCCTGAGGCCAGAGGACGCCTTCCGCGATCCATGGCTCAACA
TCGTCCTTCTGGCTTCCCAGCCCCGGGCCGAACGTTCGGGTTAATAAGCAGAGCAGTTAT
TCGGCTCCTGGCAGGAGCTCCCCCGTTAGTTTCCACGTTGTGAGCACATTCATACTTAAG
ACTGGTTCTCTTTGTGTTTTAAGCGTCTGTCTCTGTAGTAAACTGAAATGTTAACAGAAA
TGCAGCTGGGCCCCTCACAGCATGGGGCAAGAGGTGGGCCCCCTGGTGGGTGGGGCTAGA
AGGTGGCCTTGGAGTGTCCGAAGATGCAGATGGGGAAGTGCTTCACGTGCGAAGACCACT
GCGCGGCCAGCTGGAAGAACTTGACGTCGCTGCACTCCACGCCGTCGATGAGGACCCGCA
GCATGTTCTGCTGCTGCCTGGCAGTGCAAATGAACCCGCTGATGCCCTCAATGCACTGGC
TCTTAAACTCACGTCCCTGGCCTTCCCTTTTTGGCAGAACATCCCTTCTTGGTCTTCTTC
TTGGTGACACCGTCAATGACCTGTGGGGCGTGGCTGCCACTCACA

Restriction Sites: NotI-NotI

ACCN: BC028418

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	BC028418.1
RefSeq Size:	3463 bp
RefSeq ORF:	3463 bp
Locus ID:	23241
Cytogenetics:	14q32.33
Gene Summary:	Multifunctional sorting protein that controls the endoplasmic reticulum (ER)-mitochondria communication, including the apposition of mitochondria with the ER and ER homeostasis. In addition, in response to apoptotic inducer, translocates BIB to mitochondria, which initiates a sequence of events including the formation of mitochondrial truncated BID, the release of cytochrome c, the activation of caspase-3 thereby causing cell death. May also be involved in ion channel trafficking, directing acidic cluster-containing ion channels to distinct subcellular compartments.[UniProtKB/Swiss-Prot Function]