

## Product datasheet for **SC128261**

### **PACS1 (NM\_018026) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PACS1 (NM_018026) Human Untagged Clone
Tag:	Tag Free
Symbol:	PACS1
Synonyms:	MRD17; SHMS
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_018026, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGAACGCGGAGGGGCGGGCGGTGGTCCCGAGGCGCCGGGGCGGCAGCGGCCAGCGGGGATCCG
GGGTCGCCAGTCCCCTCAGCAGCCGCCCGCAGCAGCAGCAGCAGCCGCCAGCAGCCGACGCC
CCCCAAGCTGGCCAGGCCACCTCGTCTCTCGTCCACCTCGGGCGGCTGCCTCCTCTCGTCTCG
TCTACCTCCACCTCCATGGCCGTGGCGGTGGCCTCGGGCTCCGCGCTCCCGGTGGCCCGGGCCAGGCC
GCACCCCGCCCGGTGCAGATGAACCTGTACGCCACCTGGGAGGTGGACCGGAGCTCGTCCAGTGCCT
GCCTAGGCTATTGACCTGAAGAACTCGTATGCTAAAAGAAATGGACAAAGATCTTAACTCA
GTGGTATCGCTGAAGCTGCAGGTTCAAAAAGAATTCTTCGCTCCAACGAGATCGTCTTCCAGCTA
GTGGACTGGTGGAAACAGAGCTCAATTAACCTTCTCCCTTCCAGTACCCTCATTTCTTAAAGCGAGATGC
CAACAAGTGCAGATCATGCTGCAAAGGAGAAAACGTTACAAGAATCGGACCATCTTGGCTATAAGACC
TTGGCCGTGGGACTCATCAACATGGCAGAGGTGATGCAGCATCCTAATGAAGGCGCACTGGTGTGGCC
TACACAGCAACGTGAAGGATGTCTGTGCTGTGGCAGAAATAAAGATCTACTCCTGTCCAGCCAACC
CATTGACCATGAAGGAATCAAATCCAAGCTTCTGATCGTCTCCTGATATTGACAAATTATTCTGAGGAA
GAGGAAGAGAGTTTCTCATCAGAACAGGAAGGCAGTGATGATCCATTGCATGGGCAGGACTTGTCTACG
AAGACGAAGATCTCCGAAAGTGAAGAAGACCCGGAGGAACTAACCTCAACCTCTGCCATCACAAGGCA
ACCTAACATCAAACAGAAGTTTGTGGCCCTCCTGAAGCGGTTAAAGTTTTCAGATGAGGTGGGCTTTGGG
CTGGAGCATGTGTCCCGCAGCAGATCCGGGAAGTGAAGAGGACTTGGATGAATTGTATGACAGTCTGG
AGATGTACAACCCAGCAGCAGTGGCCCTGAGATGGAGGAGACAGAAAGCATCCTCAGCAGCCAAAGCC
CAAGCTCAAGCCTTTCTTGGAGGGATGTCGAGTCCAGCTCCAGACGGAGATTGGCAGCCTCAACAGC
AAAGTCAGCCTCGGAAAAGACACCACCGCCATGGAATTGGCTGCTCTAGAAAAAATTAATCTACTT
GGATTAACCAAGATGACAGCTTACTGAAACAGACACTCTGGAATCACTGACCAGGACATGTTTGG
AGATGCCAGCAGAGTCTGGTTGTGCCGAGAAAGTCAAACTCCCATGAAGTCCAGTAAAAACGGATCTC
CAGGGCTCTGCCTCCCCAGCAAAGTGGAGGGGTGCACACACCCCGGCAGAAGAGGAGCAGCCCTGA
AGGAGCGCAGCTCTCAAGCCCTAAGTGAAGGACCAACAGTCCGACAGCGAGCGCTCCCCAGATCT
GGGCCACAGCAGCAGATTCCAAGAAAGTGGTGTATGACCAGCTCAATCAGATCCTGGTGTGAGATGCA
GCCCTCCAGAAAATGTCATTCTGGTGAACACCACTGACTGGCAGGGCCAGTATGTGGTGTGAGTGTCTC
AGGACCAGCGGAAGCCTGTGGTGTGCACCTGCTCCACCGTGGAGGTCCAGGCCGTGTGTCCGCCCTGT
CACCCGGATCCAGCGCTACTGCAACTGCAACTTCCATGCCAGGCCAGTGAAGGTGGCTGTGTGGGA
GGCCAGAGCTACCTGAGCTCCATCCTCAGTTCTTTGTCAAGTCCCTGGCCAACAAGACCTCCGACTGGC
TTGGCTACATGCGCTTCCATCATCCCCCTCGGTTCTCACCCCTGTGGCCAAATACTTGGGGTCACTCGA
CAGTAAATACAGTAGTTCCTTCCCTGGATTCTGGTTGGAGAGATCTGTTCAAGTCTCGTCCGAGCCACCAGT
TCAGAGCAACTGGACGTGGCAGGGCGGGTGTGACAGTACGTCAACGGGGCAGCCACGACACACCAGCTTC
CCGTGGCCGAAGCCATGCTGACTTGCCGGCATAAGTTCCTGATGAAGACTCCTATCAGAAGTTTATTCC
CTTATTGGCGTGGTGAAGTGGTCTGGTTGAAGACTCTCCCTCCACAGCAGGCGATGGGGACGATTCT
CCTGTGGTCAGCCTTACTGTGCCCTCCACATCACCACCTCCAGCTCGGGCTGAGCCGAGACGCCACGG
CCACCCCTCCCTCCTCCCATCTATGAGCAGCGCCCTGGCCATCGTGGGAGCCCTAATAGCCCATATGG
GGACGTATTGGCTCCAGGTGGACTACTGGCTGGGCCACCCCGGGGAGCGGAGGAGGGAAGGCCACAAG
AGGGACGCCAGCTCGAAGAACACCTCAAGAGTGTCTTCCGCTCAGTGCAGGTGTCCCGCTGCCCCATA
GTGGGGAGGCCAGCTTTCTGGCACCATGGCCATGACTGTGGTCAACAAAGAAAAGAAAGAAAGTTCC
CACCATCTTCTGAGCAAGAAAACCCGAGAAAAGGAGGTGGATTCTAAGAGCCAGGTCAATGAAGGCATC
AGCCGCTCATCTGCTCAGCCAAGCAGCAGCAGACTATGCTGAGAGTGTCCATCGATGGGGTGGAGTGA
GTGACATCAAGTTCTTCCAGCTGGCAGCCAGTGGCCACCCATGTCAAGCACTTCCAGTGGGACTCTT
CAGTGGCAGCAAGGCCACCTGA
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_018026 unedited  
 TCTAACACCCGCCGTTGNCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAA  
 GCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCG  
 CGAATTCGGCAGCAGGCCAGATCGGCGTCGCCTCGGCCTCCGTAACCCCCGCCTAGCCGG  
 GCCATGGCGGAACCGGGAGGGCGGGCGGTGGTCCCGGAGGCCCGGGGGCGGCAGCGGC  
 CAGCGGGGATCCGGGGTCGCCAGTCCCCTCAGCAGCCGCCCGCAGCAGCAGCAGCAG  
 CAGCCCGCAGCAGCCGACGCCCCCAAGCTGGCCAGGCCACCTCGTCGTCTCGTCC  
 ACCTCGGCGGCGCTGCCTCCTCCTCGTCTACCTCCACCTCCATGGCCGTGGCG  
 GTGGCCTCGGGTCCGCGCTCCCGGTGGCCCGGGGCCAGGCCGACCCCCGCCCGGTG  
 CAGATGAACCTGTACGCCACCTGGGAGGTGGACCGGAGCTCGTCCAGCTGCGTGCCTAGG  
 CTATTCAGCTTGACCCTGAAGAACTCGTCATGCTAAAAGAAATGGACAAAGATCTTAAC  
 TCAGTGGTCATCGCTGTGAAGCTGCAGGGTTCAAAAAGAATTCTTCGCTCCAACGAGATC  
 GTCCTCCAGCTAGTGGACTGGTGGAAACAGAGCTCCAATTAACCTTCTCCCTTCAGTAC  
 CCTCATTTCTTAAGCGANGATGCCAACAGCTGCAGATCATGCTGCANAGGAGAAACGTT  
 ACAAGAAAATCGACCATCTGGGCTATAAGACCTGGNCCGTNGGACTCATCAACATGGCAG  
 AGGTGATGCAGCATCCTAATGAAGGCGCACTGGTCTTTGGCTACACAGCACGTGNAAGA  
 TGCTCTGTGCC

**3' Read Nucleotide Sequence:**

>Forward primer walk for NM\_018026 unedited  
 CAGAACTGATTTAGCCCTTATGGCGGTGAAGGTGGTTGGTTGAAGACTTCTCCACAGC  
 AGGCGATGGGGACGATTCTCCTGTGGTCAGCCTTACTGTGCCCTCCACATCACCACCTC  
 CAGCTCGGGCCTGAGCCGAGACGCCACGGCCACCCTCCCTCCTCCCATCTATGAGCAG  
 CGCCCTGGCCATCGTGGGAGCCCTAATAGCCATATGGGGACGTGATTGGCCTCCAGGT  
 GGACTACTGGCTGGGCCACCCCGGGGAGCGGAGGAGGGAAGGCGACAAGAGGGACGCCAG  
 CTCGAAGAACACCCTCAAGAGTGTCTTCCGCTCAGTGCAGGTGTCCCGCTGCCCATAG  
 TGGGGAGGCCAGCTTTCTGGCACCATGGCCATGACTGTGGTCACCAAAGAAAAGAAACA  
 GAAAGTCCCACCATCTTCTGAGCAAGAAACCCCGAGAAAAGGAGGTGGATTCTAAGAG  
 CCAGGTGATTGAAGGCATCAGCCGCTCATCTGCTCAGCCAAGCAGCAGCAGACTATGCT  
 GAGAGTGTCCATCGATGGGGTCGAGTGGAGTGACATCAAGTTCTTCCAGTGGCAGCCCA  
 GTGGCCCAACCCATGTCAAGCACTTCCAGTGGGACTTTCAGTGGCAGCAAGGCCACCTG  
 AGGCCCTGTCTCCAGCCACTTTCCCTCCTGGCACTGCCACCAGCCTCACCGCCTGCGGG  
 CAGGGGGAGGCCAGCAGGCCCGGGCCAGCACCCCTTCCCTGGCACCAGGGTCTGCCTC  
 TCACTCGCCAGGTCCCGAAGACTGCCACAGGGACGCCTTCCCTCCCTCCCTCCAGCC  
 CACCCCTGCACAGCCCTCTTCCCGCTTTTCCCTTCTCCTCTGGCTCAGCCAGCGTG  
 TTGTTTTGCCTTCTGTGCCATAAGTCCCTGG

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_018026

**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\\_018026.2](#), [NP\\_060496.2](#)

**RefSeq Size:** 4511 bp

**RefSeq ORF:** 2892 bp

**Locus ID:** 55690

**UniProt ID:** [Q6VY07](#)

**Cytogenetics:** 11q13.1-q13.2

**Gene Summary:** This gene encodes a protein with a putative role in the localization of trans-Golgi network (TGN) membrane proteins. Mouse and rat homologs have been identified and studies of the homologous rat protein indicate a role in directing TGN localization of furin by binding to the protease's phosphorylated cytosolic domain. In addition, the human protein plays a role in HIV-1 Nef-mediated downregulation of cell surface MHC-I molecules to the TGN, thereby enabling HIV-1 to escape immune surveillance. [provided by RefSeq, Jul 2008]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).