

## Product datasheet for **MC222844**

### **Pacs1 (NM\_153129) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pacs1 (NM_153129) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pacs1
Synonyms:	A1325977
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**Fully Sequenced ORF:**

>MC222844 representing NM\_153129  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGGAACCGGAGGGGGCGGGCGGTGGTCCCGAGGCTCCGGGGCGGCAGCAGTCAGCGGGGCTCTG  
 GGGTCGCCAGTCCCGCAGCAGCAGCCGAGCAGCAGCCGCGCAGCCTCAACAGCCGACGCCCCCAA  
 GCTGGCCAGGCCACCTCGTCTCTCGTCCACCTCGGCTGCGGCCGCTCCTCCTCGTCTCTCCACC  
 TCCACCTCCATGGCCGTCGCGGTGGCTCGGGCTCTGCGCCTCCGGGCGGTCCAGGACCAGGCCGACCC  
 CCGCCCCAGTGCAGATGAATTTGTATGCTACCTGGGAGGTGGACCGGAGCTCATCCAGCTGCGTGCCAG  
 GCTCTTACAGTAACTCTGAAGAACTTGTATGCTTAAAGAAATGGACAAAGATCTTAACTCAGTAGTC  
 ATTGCTGTGAAGTGCAGGGTTCAAAAAGGATTCTTCGCTCCAATGAGATCATCCTTCCAGCCAGTGGCC  
 TGGTGGAGACAGAGCTCCAGTTAACCTTCTCCCTCCAGTACCCTCATTTCTTAAGCGAGATGCCAACAA  
 ACTGCAGATTATGTTGCAAAGGAGGAAGCGGTACAAGAACCGAACTATCTTGGGTATAAAACCTTAGCT  
 GTGGGACTCATCAACATGGCAGAGGTGATGCAACACCCTAATGAGGGCGCTTTAGTACTTGGCCTGCACA  
 GCAATGTGAAGGATGTCTCTGTGCCAGTGGCAGAAATAAAAAATCTACTCTTTATCCAGCCAGCCATTGA  
 CCATGAAGGAATCAAGTCTAAGCTGTCTGATCGCTCCCGAGATATTGACAACACTCTGAAGAAGAGGAG  
 GAAAGTCTCTCCTCAGAGCAGGAAGGCAGTGACGACCCATTGCATGGGCAGGACCTATTCTATGAAGATG  
 AAGATCTTCGAAAGTAAAGAAGACTCGGAGGAAACTGACCTCAACCTCAGCCATCACTAGGCAACCTAA  
 CATCAAACAGAAGTTTGTGGCCCTCTGAAACGATTCAAAGTTTCTGACGAGGTGGGCTTTGGGCTAGAA  
 CACGTGTCCCGGAGCAGATTCCGGAAGTGGAGGAGGACTTGGATGAAGTGTACGACAGCTAGAGATGT  
 ACAACCCAGCAGCAGTGGCCCTGAGATGGAGGAAACAGAAAGCATCTCAGCACCCCAAGCCAAAGCT  
 CAAGCCCTTCTTTGAGGGGATGTCTCAGTCCAGCTCACAGACGGAGATTGGCAGTCTCAACAGCAAGGGC  
 AGCCTCGGAAAGACACCACAGTCTATGGAGTTGGCTGCTTTAGAAAAAGTCAATCTACCTGGATTA  
 AAAACCAAGATGACAGCTTGACTGAAACAGACTTTAGAAATCACTGACCAGGACATGTTTGGAGATGT  
 GAGCACAAGTCTGGTTGTACCAGAAAAAGTCAAACTCCTATGAAGTCCAGCAAAGCTGATCTGCAGGGC  
 TCTGCCTCTCCAGCAAGGTGGAAGGGACACACACCTCGGCAGAAAGGAGCAGTCCCCTGAAGGAGC  
 GACAGCTCTCCAAGCCCTGAGTGAGAGAACCAACAGCTCTGACAGTGAAGGATCTCTGATCTGGGCCA  
 CAGCACACAGATTCCAAGGAAGGTGGTATACGACCAACTGAATCAGATCCTGGTATCGGATGCAGCCCTC  
 CCTGAAAATGTATCCTGGTGAACACCACAGACTGGCAGGGCCAGTACGTGGCTGAATTGCTTCAAGACC  
 AGAGGAAGCCTGTGGTATGCACCTGCTCAACAGTGGAGGTCCAGGAGTGTGTCCGCCCTTCTCACTAG  
 GATTACAGCGTACTGCAACTGCAACTCATCCATGCCGAGGCCGGTCAAGGTGGCAGCTGTGGGCAGCCAG  
 AGCTACCTGAGCTCCATCCTCCGTTTTTTTGTCAAGTCCCTTGCCAGCAAGACCCAGACTGGCTGGGT  
 ACATGCGCTTCTCATATTCCCCTAGGTTCTCATCCAGTGGCCAAATACTTGGGCTCAGTAGATAGTAG  
 ATATAGCAGCACCTTTCTTGATTCTGCCTGGAGAGACCTATTCAGTCGCTCAGAGCCTCCAGTGTGAGAG  
 CCACTGGACGTGGTGGTGTGATGCAGTATGTCAATGGAGCTACCACAACACACCAGCTGCCTGTGG  
 CTGAAGCCATGTTGACCTGCAGGCATAAGTTCCTGATGAGGACTCCTACCAGAAGTTCATCCCCTTCAT  
 TGGCGTTGTGAAAGTGGGCTTGTGAAAGACTCGCCCTCCACTGCAGGTGATGGGGACGATTACCTGTG  
 GTCAGCCTTACTGTGCCCTCCACATCACCACCCTCAAGCTCAGGCCTGAGCCGAGATGCCACAGCTACCC  
 CTCCCTCGTCCCATCCATGAGCAGTGCCTCGCCATCGTGGGGAGCCAAATAGCCCATATGGGGATGT  
 GATTGGTCTCCAGGTGGACTACTGGCTGGGCCACCCTGGGGAGCGAAGGAGAGAAGGTGATAAGAGGGAT  
 GCCAGCTCAAAGAACCCTCAAGAGTGTCTCCGCTCGGTGCAGGTTTCTCGCTGCCACATGCAGGGG  
 AAGCCAGCTTTCTGGCACCATGGCAATGACTGTGGTACCAAAGAGAAGAACAAGAAAGTGGCCACTAT  
 CTTCTGAGCAAGAAGCCCCGAGAAAAGGAGGTGGATTCTAAGAGCCAGGTATCGAGGGCATCAGCCGC  
 CTCATCTGTTCTGCAAAGCAGCAGCAAACCATGCTGAGAGTGTCCATCGATGGAGTTGAGTGGAGTGACA  
 TCAAGTTCTTCCAGCTGGCAGCCAGTGGCCAACCTCATGTCAAGCACTTCCAGTGGGACTTTCAGTGG  
 CAGCAAGACCACCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_153129
<b>Insert Size:</b>	2886 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a></p>
<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>	<a href="#">NM_153129.2</a> , <a href="#">NP_694769.2</a>
<b>RefSeq Size:</b>	4361 bp
<b>RefSeq ORF:</b>	2886 bp
<b>Locus ID:</b>	107975
<b>UniProt ID:</b>	<a href="#">Q8K212</a>
<b>Cytogenetics:</b>	19 A
<b>Gene Summary:</b>	Coat protein that is involved in the localization of trans-Golgi network (TGN) membrane proteins that contain acidic cluster sorting motifs. Controls the endosome-to-Golgi trafficking of furin and mannose-6-phosphate receptor by connecting the acidic-cluster-containing cytoplasmic domain of these molecules with the adapter-protein complex-1 (AP-1) of endosomal clathrin-coated membrane pits (By similarity).[UniProtKB/Swiss-Prot Function]