

## Product datasheet for **SC119968**

### PEX2 (NM\_000318) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PEX2 (NM_000318) Human Untagged Clone
Tag:	Tag Free
Symbol:	PEX2
Synonyms:	PAF1; PBD5A; PBD5B; PMP3; PMP35; PXMP3; RNF72; ZWS3
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119968 sequence for NM_000318 edited (data generated by NextGen Sequencing)

```
ATGGCTTCCAGAAAAGAGAATGCGAAGAGTGCAAACAGAGTGCTAAGAATAAGCCAGTTG
GATGCACCTTGAACATAAACAAGGCCCTGGAGCAGCTAGTTTGGTCCCAGTTTACTCAGTGC
TTTCATGGATTTAAACCTGGGCTGTTAGCTCGCTTTGAGCCAGAGGTGAAAGCGTGCTTA
TGGGTTTTCTTGTGGAGATTCACCATCTACTCCAAAAATGCCACAGTGGGACAGTCAGTT
TTGAATATTAAGTACAAAAATGATTTTTCCCTAACCTGAGATATCAGCCACCCAGTAAA
AATCAAAAAATCTGGTATGCTGTTGTACAATTGGTGGCAGGTGGTTAGAAGAACGATGC
TATGATTTGTTTCGAAACCATCATTTAGCATCATTTGGGAAAGTCAAGCAGTGTGTGAAT
TTTGTGATTGGACTTTTAAAATTAGGTGGGCTGATTAATTTTTTGATTTTCCTTCAGAGG
GGAAAGTTTGCACTTTGACAGAACGTCTCCTAGGTATTCATTCTGTATTTTGAAGCCT
CAAAACATACGTGAAGTTGGCTTTGAATACATGAATAGGGAACCTCTCTGGCATGGTTTT
GCTGAATTTCTGATTTTTCTCTTACCACTTATCAATGTCCAGAAGTTGAAAGCCAAGCTG
TCTTCATGGTGTATTCTCTTACTGGTGCACCTAATAGTGACAATACATTAGCCACCCAGT
GGCAAAGAATGCGCTCTATGTGGAGAGTGGCCACCATGCCTCACACCATAGGATGTGAG
CATATTTCTGTTATTTCTGTGCTAAGAGTAGTTTCTTATTTGACGTGTACTTTACTTGT
CCTAAGTGTGGCACAGAAGTACACAGTCTGCAGCCACTGAAATCAGGAATCGAGATGTCA
GAAGTAAATGCTCTTTAG
```

Clone variation with respect to NM\_000318.2



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_000318 unedited  
 GTTACATTTGTATACGACTCCTATAGGCGGCCCGCAATTTCGCACGAGGCCAGATTTCGGC  
 TAGGAAAAGACAGCTTTCCAGAGAAGTTTCAGAGAAGTTACGTGGAGCGTGGGCGTTTC  
 GCAGACTCCTAAGTGGTCTGGAACCTAACCTGCAGTGTCTCTGAGCTTCTGGCAAGTATG  
 AGGCAAGGATTTACAGAAGAATTGGAGCAAAAATCCCAGTGCATAGCTATAGGCTG  
 TCCAGTCTTGAGGGAGCTGCAGGAACAGGAAAAAGAGACCTTCAGAGAAGACATGGCTTC  
 CAGAAAAGAGAATGCGAAGAGTGCACACAGAGTGCTAAGAATAAGCCAGTTGGATGCAC  
 TGAACATAACAAGGCCCTGGAGCAGCTAGTTTGGTCCCAGTTTACTCAGTGCTTTCATGG  
 ATTTAAACCTGGGCTGTTAGCTCGCTTTGAGCCAGAGGTGAAAGCGTGCTTATGGGTTTT  
 CTTGTGGAGATTCACCATCTACTCCAAAATGCCACAGTGGGACAGTCAGTTTTGAATAT  
 TAAGTACAAAATGATTTTTCCCTAACCTGAGATATCAGCCACCCAGTAAAAATCAAAA  
 AATCTGGTATGCTGTTTGTACAATTGGTGGCAGGTGGTTAGAAGAACGATGCTATGATTT  
 GTTTCGAAACCATCATTTAGCATCATTTGGGAAAGTCAAGCAGTGTGTAATTTTGTGAT  
 TGGACTTTTGAATTANGTGGGCTGATTAATNTTTGATTNTCCTTCAGAGGGGAAAGTT  
 TGCACCTTTGACAGAACGCTCNCTAAGTATTCATTCTGTATTTTGCAGCCTCAAACATAC  
 GTGAAGTTGGCTTTGATACATGAATAGGGACTCCTTGCATGGTTTGTGTAATTTCTGATTT  
 TTCTTACCN

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_000318 unedited  
 GGGTTCCTAGCAGGTAGTCTATTTTAAACTTTAAAACTGTTTTTAAAAAACATTCTA  
 GTTAAGACGAGATAATTCATGTTCAAGCTAATAATTCTATACCATTTTAAAGTCTGAA  
 TTTACTTTTAAAGTAAAAAAGGCAGAGAAAAAGAGTGAAGGATACAGAATTATCTTGATT  
 ATGCAGTCTGTTACTATTCCCATGCTAAAGACCCCTTTTGTTCATAAAACTATCAAT  
 ATTTACTGAGAATGACAGCTCTGAATCAAAGGCAAGAGAAAGAGACCTGTAATAGTGCT  
 GTTCATACTAGTTGCCCCAGTAGTTCCCAGGCCTCACTTCCAAGCTGCCTTAAGTAATT  
 TTTACTTTCTGAATATAAAGCCAACGTGGAGGGGTGAGACAGCTGAGGACTGAACCTCT  
 TAAAAATTGGCTTCAGAGAAAAGCATAACATTACAACCTGAGGCGGCCGAGCACAGTGGCT  
 CACGTCTGTAATCTCAGCACTTTGGGAGGCTGACGCAGGTGGATCACCAGATCAGGAGAT  
 AGAGACCATCCTGGCTAACACAGTGAACCCATCTCTACTAAAAATACAAAAATTACCCG  
 GGCATGGTGGCATGCACCTGCAGTGCAGTACTCGGGAGGCTGAGGCAGGAGAATTGCT  
 TGAACCCGGGAGGCGGACGTTGCAGTGCAGAGATCGCGCCACTGCACCTCCAGCCTGGG  
 TGACAGACAGGACACCGTCTCAGAAAAAAGTTACAACCTGAAGCCATAAGTCT  
 TAAAGTTTAAACCAGCTCATAATTGGACATTATCATATTATGTCAACTCTGAAAAATAAT  
 GCACACTATCCCAAAGTCTCCAAAATCTATTCTTAAAAATCCACCCTGTTTTAAAAATA  
 GTAAAAGAACGTACCTTGTATAATCACTGGCA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_000318

**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).

<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_000318.1</a> , <a href="#">NP_000309.1</a>
<b>RefSeq Size:</b>	1630 bp
<b>RefSeq ORF:</b>	918 bp
<b>Locus ID:</b>	5828
<b>UniProt ID:</b>	<a href="#">P28328</a>
<b>Cytogenetics:</b>	8q21.13
<b>Domains:</b>	RING, Pex2_Pex12
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Gene Summary:</b>	<p>This gene encodes an integral peroxisomal membrane protein required for peroxisome biogenesis. The protein is thought to be involved in peroxisomal matrix protein import. Mutations in this gene result in one form of Zellweger syndrome and infantile Refsum disease. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) and variants 2, 3 and 4 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>