

Product datasheet for **SC119983**

PEX12 (NM_000286) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PEX12 (NM_000286) Human Untagged Clone
Tag:	Tag Free
Symbol:	PEX12
Synonyms:	PAF-3; PBD3A
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_000286, the custom clone sequence may differ by one or more nucleotides

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ATGGCTGAGCACGGGCTCACTTCACAGCTGCTTCTGTGGCCGATGACCAGCCATCCATCTTTGAGGTGG
TAGCACAGGACAGTTTAATGACAGCAGTGAGACCCGCTTTCAGCATGTGGTCAAGGTTCTTGCAGAATC
AAATCCCACCCACTATGGCTTCTTGTGGAGGTGGTTTGATGAAATCTTACTCTGCTAGATCTTCTGCTC
CAGCAACATTATCTGTCTAGAACCAGTGCCTCATTTTCTGAAAATTTTACGGCTTAAAGAGAATTGTAA
TGGGGGACTCACAAGTCTCAGAGATTGGCTAGTGTGGTCTCCCAAAGCAGCAGCTTTGGAAATCTAT
TATGTTTCTGGTTCTTCTCCCTATCTGAAAGTGAAGCTGGAGAAGCTGGTTTCTAGCCTGAGAGAAGAG
GATGAATATTCTATTCATCCCCCTTCTCCCGTGGAAACGATTTTACAGAGCTTTCCTGGCAGCCTACC
CATTTGTGAACATGGCCTGGGAAGGATGGTTTCTGTACAACAACCTTCGATACATCCTAGGAAAAGCTCA
GCATCACTCACCCTGCTGAGGCTGGCTGGAGTTCAGTAGGTCGACTGACAGTTCAGGATATACAAGCT
CTGGAGCACAACCAGCTAAGGCCAGCATGATGCAGCAACCAGCCAGGAGTGTAGTGAGAAGATAAACT
CAGCTCTGAAGAAAGCTGTTGGGGGTGTGCCTTATCCCTGTCTACTGGCCTTTCTGTGGGTGATTCTT
CTTGCACTTCTTACTGGTGGTACTCATCTGAAAATCAAGAAACCATCAAGTCATTGACTGCCCTGCCT
ACTCCACCACCCTGTACACCTAGACTATAACTCTGATTCTCCCCTTACCCAAAATGAAGACTGTGT
GCCCACTGTGTCGTAACCCGGGTGAATGATACTGTTCTTGCCACCTCTGGCTATGTGTTTTGTTACCG
CTGTGTGTTTCATTATGTGAGGAGTCACCAAGCTTGTCCCATCACAGTTATCCAACAGAAGTACAACAT
CTGATTAACCTACTCCCCTGAGAAGTGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_000286 unedited</p> <pre>TCAAATTTTGTAAATACGACTCACTATAGGGCGGCCCGGATTTCGGCACGAGGGCAAGGAC GGGCGCGGGCGGGGATACTCAAAGCCAACAGCTGGAGTCAGCCCTCGTGTCCCAGGCTCA CAGTGGCACGACTGAATCCTCAGAGTCGGCTGGCTTTTGAGCTCTCACGATTGGGGAGGA GGGGCGTTTTCTGGTTCGACGCTCCAGAGGATTGCGTTCCTTCCCCATACTGTCCCC ACAGTCACGCTCTGCCCTGACGTGCAGCATTGACAAGTTACCCCTCGCCACATACTAC TTCCACCACGTCGAGTTAAGTTGTTTCTTAACTTCTTGAGACTACCCTCGGCCTCCA GGTCTTTTTTCCAGTTCAATTTTGCCTAAGATTGAGTTTCGAGTTTCAGATATCAT GCAGAAAGTTTACCTTTAAGACTGAGCACCCATCTGATACTCTTCTCCCGAAAAAGTTC ATGCTCACGAGAGAGTTTGTGGGAAAAGTGAAGCCAGTACACGCAGGAACTATGGCTG AGCACGGGGCTCACTTCACAGCTGCTTCTGTGGCCGATGACCAGCCATCCATCTTTGAGG TGGTAGCACAGGACAGTTAATGACAGCAGTGAGACCCGCTCTCAGCATGTGGTCAAGG TTCTTGACAATCAAATCCCACCACTATGGCTTCTTGTGGAGGTGGTTTATGAAATCT TACTCTGCTAGATCTTCTGCTCCAGCACATTATCTGTCTAGACCAGTGCCTCATTTTCT GAAAACTTTTACGGCTTANAGAGATTGTATGGGGACACTCACAGTCTCGAGATGGGCTG TGCNTGTCTCCCAAGCACAGCTTGAATCTATATGTCCTGGNTCTTCCCTACTGAAGT GAGCTNGAGAGCTGNTTCTACC</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_000286 unedited</p> <pre>AACCGGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTAGTCTGAATGAAAAAT TATTTTAAACACCTCAAGTAATCTTTACATTTCTACAAAATCATAACATAGTTCTTTTCC AGAAACATTTATTTCTTAAATCTACTTGTTCATAGAACTTTAGTAATAACCAGAATAA TTCATGACACTTTAGCAAACCTTAGCAGCAAGCAGAAAGAACTATTAATAATATCCTTT CTTTACACAATTAGATTAGTATTTTGTTCATGTCTTCATTGCTTGTAGCTTTGCTTTT ACACAGGAATCTTCAGACTACTCTGTAACTCAACCCCTATTCCTTTTTTAACCACT TTCTCAAGAAGGATATGGAGAGCTCATAAAGGAATATCCTCAAATATCCTAAATATCCAA CTTTTAAATACCTTTTTTATCCTTAAAGCTGATAAACAATAGATGTCACCTAACAAAT GTCTCACAGTATATGGAAGGAGCTTTTTCCCCCCCAGAGTGTTCCTAAGCATTTCTATC AAGAGCAAGTCTGCATTTCTTATCGTTTGCAAAGTATGAAATTTCCACCTTACAGACAG GCAGGTAATGCTTTCTTTTCTAAAAAGAAGTCTTGCTACCACCTCACTGTTCACTTTAT TTTTATGCGGTCTAACCTGGGTTTTTCGTAAGAGCTCCTTTATTTCTTATTTTAAAGG AAAGGGATAGGCAAAACTTGGGTACTCATTATCTGTTAATCTCTACACTGGCCCTCA TATCCCCTGCCAGTCTGATCCTTCTACTTTAAGCAGCTTGGTCAACTGTNAGTAGGGTT CTAGAGAGCAGGCTAAAAGGTTAGGATCAAATGGGCATATCCTTTTAAAGAAACCATATA ATCATTTAAGGTCATATAGNTATGAATTGAGGCTGAGAATGTCAC</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_000286
Insert Size:	2630 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.

RefSeq: [NM_000286.1](#), [NP_000277.1](#)

RefSeq Size: 2609 bp

RefSeq ORF: 1080 bp

Locus ID: 5193

UniProt ID: [O00623](#)

Cytogenetics: 17q12

Domains: Pex2_Pex12

Gene Summary: This gene belongs to the peroxin-12 family. Peroxins (PEXs) are proteins that are essential for the assembly of functional peroxisomes. The peroxisome biogenesis disorders (PBDs) are a group of genetically heterogeneous autosomal recessive, lethal diseases characterized by multiple defects in peroxisome function. The peroxisomal biogenesis disorders are a heterogeneous group with at least 14 complementation groups and with more than 1 phenotype being observed in cases falling into particular complementation groups. Although the clinical features of PBD patients vary, cells from all PBD patients exhibit a defect in the import of one or more classes of peroxisomal matrix proteins into the organelle. Defects in this gene are a cause of Zellweger syndrome (ZWS). [provided by RefSeq, Oct 2008]