

## Product datasheet for **RC206293**

### PEX12 (NM\_000286) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PEX12 (NM_000286) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PEX12
Synonyms:	PAF-3; PBD3A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206293 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGAGCACGGGCTCACTTCACAGCTGCTTCTGTGGCCGATGACCAGCCATCCATCTTTGAGGTGG  
TAGCACAGGACAGTTAATGACAGCAGTGAGACCCGCTCTTCAGCATGTGGTCAAGGTTCTTGCAGAATC  
AAATCCCACCCACTATGGCTTCTGTGGAGGTGGTTTGATGAAATCTTACTCTGCTAGATCTTCTGCTC  
CAGCAACATTATCTGTCTAGAACCAGTGCCTCATTTTCTGAAAACCTTTACGGCTTAAAGAGAATTGTAA  
TGGGGGACACTACAAGTCTCAGAGATTGGCTAGTGTGGTCTCCCAAAGCAGCAGCTTTGGAAATCTAT  
TATGTTTCTGGTTCTTCTCCCTATCTGAAAGTGAAGCTGGAGAAGCTGGTTTCTAGCTTGAGAGAAGAG  
GATGAATATTCTATTCATCCCCCTTCTCCCGCTGGAAACGATTTTACAGAGCTTTCCTGGCAGCCTACC  
CATTTGTGAACATGGCCTGGGAAGGATGGTTTCTGTACAACAACCTTCGATACATCCTAGGAAAAGCTCA  
GCATCACTCACCCTGCTGAGGCTGGCTGGAGTTCAGCTAGGTCGACTGACAGTTCAGGATATACAAGCT  
CTGGAGCACAACCAGCTAAGGCCAGCATGATGCAGCAACCAGCCAGGAGTGTAGTGAGAAGATAAACT  
CAGCTCTGAAGAAAGCTGTTGGGGTGTGCCTTATCCCTGTCTACTGGCCTTTCTGTGGGTGATTCTT  
CTTGCAGTTCCTTGACTGGTGGTACTCATCTGAAAATCAAGAAACCATCAAGTCATTGACTGCCCTGCCT  
ACTCCACCACCTGTACACCTAGACTATAACTCTGATTCTCCCTCTTACCCAAAATGAAGACTGTGT  
GCCCACTGTGTCGTAACCCGGGTGAATGATACTGTTCTTGCCACCTCTGGCTATGTGTTTTGTTACCG  
CTGTGTGTTTCATTATGTGAGGAGTCACCAAGCTTGTCCCATCACAGTTATCCAACAGAAGTACAACAT  
CTGATTAACCTACTCCCTGAGAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC206293 protein sequence  
 Red=Cloning site Green=Tags(s)

MAEHGAHF<sup>+</sup>TAASVADDQPSIFEVVAQDSLMTAVRPALQHVVKVLAESNPTHYGF<sup>+</sup>LWRWFDEIFTLLDLLL  
 QQHYLSRTSASFSENFYGLKRIVMGDTHKSQRLASAGLPKQQLWKSIMFLVLLPYLKVKLEKLVSSLREE  
 DEYSIHPPSSRWKRFYRAFLAAYPFVNMWEGWFLVQQLRYILGKAQHHSPLRLLAGVQLGRLTVQDIQA  
 LEHKPAKASMMQQPARSVSEKINSALKKAVGGVALSLSTGLSVGVF<sup>+</sup>FLQFLDWWYSENQETIKSLTALP  
 TPPPPVHLDYNSDSPLLPKMKTVCPLCRKTRVNDTVLATS<sup>+</sup>GVVFCYRCVFHYVRSHQACPITGYPT<sup>+</sup>EVQH  
 LIKLYSPEN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6533\\_f03.zip](https://cdn.origene.com/chromatograms/mk6533_f03.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_000286

**ORF Size:** 1077 bp

**OTI Disclaimer:** 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. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_000286.3](#)

**RefSeq Size:** 2693 bp

**RefSeq ORF:** 1080 bp

**Locus ID:** 5193

**UniProt ID:** [O00623](#)

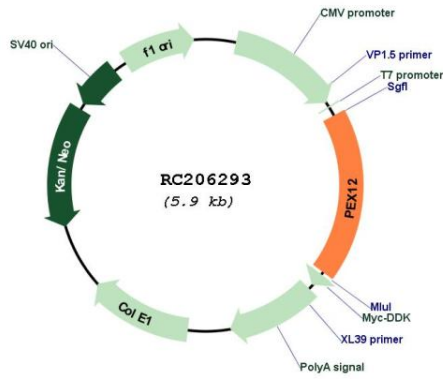
**Cytogenetics:** 17q12

**Domains:** Pex2\_Pex12

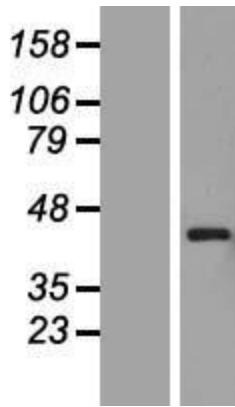
**MW:** 40.8 kDa

**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]

Product images:



Circular map for RC206293



Western blot validation of overexpression lysate (Cat# [LY424819]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206293 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).