

## Product datasheet for **RC200588**

### PEX10 (NM\_153818) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PEX10 (NM_153818) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PEX10
Synonyms:	NALD; PBD6A; PBD6B; RNF69
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200588 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCCCGGCCGCCAGCCCCGGAGGTGATCCGCGCGGCGCAGAAGGACGAGTACTACCGGGTGGCTGCGGAGCGCGGGCGGCCCTGCACAGCCTGGCGGTGCGAGGAAGTGGCTGGAGTGGAGGAA  
GGAGGTTGAGCTGCTCTCAGATGTGGCCTACTTTGGCCTCACCACACTTGCAGGCTACCAGACCCTGGGG  
GAGGAGTACGTCAGCATCATCCAGGTGGACCCATCGCGGATACATGTGCCCTCCTCGCTGCGCCGTGGCG  
TGCTGGTGACGCTGCATGCCGCTGCCCTACCTGCTGGACAAGGCCCTGCTCCCCCTGGAGCAGGAGCT  
GCAGGCTGACCCGACAGTGGGGACCCCTGCAGGGGAGCCTGGGGCCAGGTGGGCGTGGCTGCTCAGGG  
GCGCGGCGCTGGATGCGTCACCACACGGCCACCCTGACTGAGCAGCAGAGGAGGGCGCTGCTGCGGGCGG  
TCTTCGCTCCTCAGACAGGGCCTCGCCTGCCCTCCAGCGGCTACATGTTGCCTGGTTTTACATCCACGGTGT  
CTTCTACCACCTGGCCAAGAGGCTCACGGGGATCACGTACCAGGCGCTGAGGCCAGATCCCTCAGGGTC  
CTGATGAGTGTGGGCCATCTGCCTTACAGCTCCGTGTCCGAGCCTGCCGGAGAGGACCTGAGGGCCC  
GTGTTAGCTACAGGCTGCTGGGGTCACTCACTGCTGCACCTGGTGTGCTCCATGGGGTGCAGCTGTA  
CGGTTTCAGGCAGCGGACGCGAGCCAGGAAGGAGTGGAGGCTGCACCGCGCCTGTCTCACCGCAGGGCC  
TCCTTGGAGGAGAGCCGTTTCCAGAAACCCCTGTGCACCTGTGCCCTGGAGGAGCGCAGGCACCCAA  
CAGCCACGCCCTGCGGCCACCTGTTCTGCTGGGAGTGATCACCAGCTGGTGCAGCAGCAAGGCGGAGTG  
TCCCTCTGCGGGAGAAGTTCCCTCCCCAGAAGCTCATCTACCTTCGGCACTACCGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC200588 protein sequence  
Red=Cloning site Green=Tags(s)

MAPAAASPPEVIRAAQKDEYYRGGRLSAAGGALHSLAGARKWLEWRKEVELLSDVAYFGLTTLAGYQTLG  
 EEYYSIIQVDPRIHVPSLRRGVLVTLHAVLPYLLDKALLPLEQELQADPDSGRPLQGS LGP GGRGCSG  
 ARRWMRHHTATL TEQRRALLRAV FVL RQGLACLQRLHVAFYIHGVFYHLAKRLTGITYQALRPDPLRV  
 LMSVAPSALQLRVRSLPGEDLRARVSYRLLGVI SLLHLVL SMGLQLYGFQRQRARKWRLHRGLSHRRA  
 SLEERAVSRNPLCTLCLEERRHPTATPCGHLFCWECITAWCSSKAECPLCREKFPQKLIYLRHYR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6400\\_d12.zip](https://cdn.origene.com/chromatograms/mk6400_d12.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_153818

**ORF Size:** 1038 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\\_153818.1](#), [NP\\_722540.1](#)

**RefSeq Size:** 2094 bp

**RefSeq ORF:** 1041 bp

**Locus ID:** 5192

**UniProt ID:** [O60683](#)

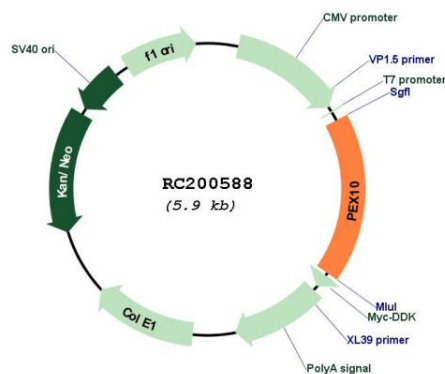
**Cytogenetics:** 1p36.32

**Protein Families:** Druggable Genome, Transmembrane

**MW:** 39.2 kDa

**Gene Summary:** This gene encodes a protein involved in import of peroxisomal matrix proteins. This protein localizes to the peroxisomal membrane. Mutations in this gene result in phenotypes within the Zellweger spectrum of peroxisomal biogenesis disorders, ranging from neonatal adrenoleukodystrophy to Zellweger syndrome. Alternative splicing results in two transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RC200588