

## Product datasheet for SC109564

### PEX10 (NM\_002617) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PEX10 (NM_002617) Human Untagged Clone
Tag:	Tag Free
Symbol:	PEX10
Synonyms:	NALD; PBD6A; PBD6B; RNF69
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC109564 sequence for NM_002617 edited (data generated by NextGen Sequencing)

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ATGGCCCCGGCCCGCCAGCCCCCGGAGGTGATCCGCGCGCGCAGAAGGACGAGTAC
TACCGCGGTGGGCTGCGGAGCGCGGCGGCGGCCCTGCACAGCCTGGCGGGTGCGAGG
AAGTGGCTGGAGTGGAGGAAGGAGGTTGAGCTGCTCAGATGTGGCCTACTTTGGCCTC
ACCACTTGCAGGCTACCAGACCCTGGGGGAGGAGTACGTACGATCATCCAGGTGGAC
CCATCGCGGATACATGTGCCCTCCTCGCTGCGCCGTGGCGTGCTGGTGACGCTGCATGCC
GTCCTGCCCTACCTGCTGGACAAGGCCCTGCTCCCCCTGGAGCAGGAGCTGCAGGCTGAC
CCCGACAGTGGGCGACCTTGCAGGGGAGCCTGGGGCCAGGTGGGCGTGGCTGCTCAGGG
GCGCGGCGCTGGATGCGTCACCACACGGCCACCCTGACTGAGCAGCAGAGGAGGGCGCTG
CTGCGGGCGGTCTTCGTCTCAGACAGGGCCTCGCCTGCCTCCAGCGGCTACATGTTGCC
TGGTTTTACATCCACGGTGTCTTACCACCTGGCCAAGAGGCTCACGGGATCACGTAC
CTCCGTGTCCGACGCTGCCCGGAGAGGACCTGAGGGCCCGTGTAGCTACAGGCTGCTG
GGGGTCATCTCACTGCTGCACCTGGTGCTGTCATGGGGCTGCAGCTGTACGGTTTCAGG
CAGCGGCAGCGAGCCAGGAAGGAGTGGAGGCTGCACCGCGGCCTGTCTACCGCAGGGCC
TCCTTGGAGGAGAGCCGTTTCCAGAAACCCCTGTGCACCCTGTGCCTGGAGGAGCGC
AGGCACCAACAGCCACGCCCTGCGGCCACCTGTTCTGCTGGGAGTGCATCACCGGTGG
TGCAGCAGCAAGGCGGAGTGTCCCCTCTGCCGGGAGAAGTTCCCTCCCCAGAAGCTCATC
TACCTTCGGCACTACCGCTGA

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Clone variation with respect to NM\_002617.3  
291 a=>g



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_002617 unedited AATCTTTCCCGCCCTTGCCGCATTAGGGCGTAGGCGTACGGTGGGAGGTCTATATA AGCAGAGCTCATTTAGGTGACACTATAGAATAACAAGCTACTTGTCTTTTTGCAGCGGCC GCGAATTCCGGCACGAGGGGCCGGCGTGGCTGCTCGGGACCACCCGAACCCGCGGCCATGG CCCCGGCCGCCAGCCCGGAGGTGATCCGCGCGGCGCAGAAGGACGAGTACTACC GGCTGGAGTGGAGGAAGGAGGTTGAGCTGCTCTCAGATGTGGCCTACTTTGGCCTACCA CACTTGCAGGCTACCAGACCCTGGGGGAGGAGTACGTCAGCATCATCCAGGTGGACCCAT CGCGGATACATGTGCCCTCCTCGCTGCGCCGTGGCGTGTGGTGACGCTGCATGCCGTCC TGCCCTACCTGTGGACAAGGCCCTGCTCCCCCTGGAGCAGGAGCTGCAGGCTGACCCCG ACAGTGGGCGACCCTTGAGGGGAGCCTGNGGCCAGGTGGGCGTGGCTGCTCAGGNNCGG CGCGCTGGATGCGTCACCACACGGCCACCCTGACTGAGCAGCANNAGAGGCGCTGCTGC GGGCGGTCTTCGCTCCTCAGACAGGGCCTCGCTGCCCTCCAGCGCTACATGTTGCCTGGT TTTACATCCACNGTGTCTTCTACCCACCTGGCCAAGAGCTCACGGNGATCACGTACCTNC GTGTCCGACGCTGCCCGGAGAGGACCTGAGGNCCCCGTGTAGCTACNAGCTGCTGGGGG TCATCTNACTGCTGCACCTGNTGCTGTCCATGGGGCTGCANCTGTACCGTTTCAGGCAGN CGCAN
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002617
<b>Insert Size:</b>	3200 bp
<b>OTI Disclaimer:</b>	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).
<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_002617.3</a> , <a href="#">NP_002608.1</a>
<b>RefSeq Size:</b>	2034 bp
<b>RefSeq ORF:</b>	981 bp
<b>Locus ID:</b>	5192
<b>UniProt ID:</b>	<a href="#">O60683</a>
<b>Cytogenetics:</b>	1p36.32
<b>Domains:</b>	RING, Pex2_Pex12
<b>Protein Families:</b>	Druggable Genome, Transmembrane

**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]

Transcript Variant: This variant (2) uses an alternate in-frame splice site in the coding region, compared to variant 1, resulting in a shorter protein (isoform 2).