

Product datasheet for **SC110052**

PEX16 (NM_057174) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PEX16 (NM_057174) Human Untagged Clone
Tag:	Tag Free
Symbol:	PEX16
Synonyms:	PBD8A; PBD8B
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_057174, the custom clone sequence may differ by one or more nucleotides

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ATGGAGAAGCTGCGGCTCCTGGGCTCCGCTACCAGGAGTACGTGACTCGTCACCCGGCCGCCACGGCCC
AGCTGGAGACAGCAGTGCAGGGCTTCAGTTACCTGCTGGCAGGTCGATTCGCCGATTGCGACGAGCTGTC
AGAGCTGGTGTACTCTGCCTCTAACCTGCTTGTGCTGCTCAATGACGGGATCCTACGGAAGGAGCTTCGG
AAAAAGTTGCCTGTGCTGCTGTCCAGCAGAAGCTGCTGACATGGCTGAGCGTGTGGAGTGCCTGGAGG
TGTTTCATGGAGATGGGAGCTGCCAAGGTGTGGGGTGAAGTGGGCCGCTGGCTTGTGCATCGCCCTCATCCA
GCTGGCCAAGGCTGTACTGCGGATGCTCCTGCTGCTCTGGTTCAAGGCTGGCCTCCAGACTTCACCCCT
ATCGTTCCACTGGACAGAGAGACCCAGGCACAGCCCCGGATGGTGACCACAGCCCTGGCAACCATGAGC
AGTCTACGTGGGAAGCGGTCAAACCGGGTGGTGCGAACCTCCAGAACACGCCGTCCCTGCACTCCAG
GCACTGGGAGCTCCCCAGCAGCGGGAGGGACGGCAGCAGCATCACGAGGAGCTGAGTGCAGCCCCC
ACCCCTGGGGCTGCAGGAGACCATCGCAGAGTTTTTGTACATTGCCCGCCGCTGTGCACTTGCTCA
GCCTGGGCTGTGGGTGAGAGTGTGAAACCTGGCTCTGGCTGGTGTGGACGTGACCAGCCT
GAGCCTCCTGAGTGACAGAAAGGGCTGACCCGAGGGAGCGGGAGCTGCGGCGCCGACCATCCTG
CTGCTCTACTACCTGCTGCGCTCCTTTCTATGACCGTTCTCCGAGGCCAGGATCCTCTCCTGCTCC
AGTTGCTGGCCGACCACGTCCCTGGCGTTGGCCTGGTCAACGTCACAGCGTCCAGCGTCCGCTCCTCCGTCCT
ACCGGCCAGCCCCACACAGCCCTGGTCGCCACCAGCGTTCTCCAGGACACCCCTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_057174 unedited
TCAAATTTTGTAAATACGACTCACTTATAGGGCGGCCGGAATTCGCACGAGGGCAGGATG
GAGAAGCTGCGGCTCCTGGGCTCCGCTACCAGGAGTACGTGACTCGTCACCCGGCCGCC
ACGGCCCAGCTGGAGACAGCAGTGCAGGGCTTACGTTACCTGCTGGCAGGTCGATTCGCC
GATTCGCACGAGCTGTAGAGCTGGTGTACTCTGCCTCTAACCTGCTTGTGCTGCTCAAT
GACGGGATCCTACGGAAGGAGCTTCGGAAAAAGTTGCCTGTGTCGCTGTCCCAGCAGAAG
CTGCTGACATGGCTGAGCGTGTGGAGTGCCTGGAGGTTCATGGAGATGGGAGCTGCC
AAGGTGTGGGGTGAAGTGGGCCGCTGGCTTGTCATCGCCCTCATCCAGCTGGCCAAGGCT
GTAAGTGGGATGCTCCTGCTGCTCTGGTTCAAGGCTGGCCTCCAGACTTACCCCCATC
GTTCCACTGGACAGAGAGACCCAGGCACAGCCCCGGATGGTGACCACAGCCCTGGCAAC
CATGAGCAGTCTACGTGGGGAAGCGGTCAAACCGGGTGGTGCAACCTCCAGAACAC
GCCGTCCTGCACTCCAGGCACTGNGGAGCTCCCAGCAGCGGGAGGGACGGCAGCAGCA
GCATCACGAGGAGCTGAGTGCACCCCCACCCNNCTGGGCTGCANGAGACCATCGCAGA
GTTTTTGTACATTGCCCGCCGCTGCTGCACTGTATCCTTAGCGCGNGCANGATANGGC
TGGCACTGNTGGCTGGGATTGAGTGGGGAGTGTGCTGAGCAGNNCCCTGTGCTGNAG
ACATNCTTGACGCTTNGCCGTAGTGCTCAACCTGGCCTGTGGGGTCANAGGTCGTGGA
AACCTGCTCTGNCTGTTGGTGNAGGACGTGACAGNCTGAGCTTCTGATGACAGAAGGGCT
GANCGNAGGNACGCGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_057174 unedited
NCGTTCTTTATTACCCGGCCGATTCTANGATCGGTTTTTTTTTTTTTTTTTTTGACGCTG
CCGGAGTCAGTTTTATTAGGGAAGAGGGGCTCCCTGCCCCACCCCTCCCCACACCCTCT
TCCGGGAGGTCTGTAGCCCAACTGTAGAAAGTAGATTTTCTGCCAGGTGGGCAAGTAAT
CCATGAGCGGCTTGTGACCAGGCCAACGCCAGGACGTGGTCCGCCAGCAACTGGAGCA
GGAAGAGGATCCTGGCCTCGGAGAAGCGGTCGTAGAAAGGAGAGCGCAGCAGGTAGTAGA
GCAGCAGGATGGTCCGGCGCCGAGCTCCCGCCGCTCCCTCCGGGTGAGGCCCTTTCTGT
CACTCAAGAGGCTCAAGCTGGTCAAGTCCACAACACCAGCAAGAGCCAGGGTTTCCAGC
ACCTCTGACCCACAGGCCAGGCTGAGCACTGACGGCCAAGGCGTCAAGGATGTCTCCA
GCACAGGGGCTTGTGACGCACTCCCACTCAATCCCCAGCCACAGTCCAGCCCTA
TCCTGCCCCGCGTAAGGATACAGTGCAGCAGCGCCGGCAATGTACAAAACTCTGCG
ATGGTCTCCTGCAGCCCCAGGGGGTGGGGTGCAGTCCCTCGTGATGCTGCTGC
TGCCGTCCTCCCGTGTGGGAGCTCCCAGTGCCTGGAGTGCATGGACGGCGTGTTC
TGGAGGGTTCGCACCACCGGTTTGACCGCTTCCCACGTANGACTGCTCATGGTTGCCA
GGGCTGTGGTCACCATCCGGGGGCTGTGCCTGGGTCTCTGTCCAGTGAACGATAGG
GGGTGAAGTCTGGGAGCCANCCNTGNACCAGAGCAGCAGGAGCN

Restriction Sites:

NotI-NotI

ACCN:

NM_057174

Insert Size:

1300 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_057174.1](#), [NP_476515.1](#)

RefSeq Size: 1726 bp

RefSeq ORF: 1041 bp

Locus ID: 9409

UniProt ID: [Q9Y5Y5](#)

Cytogenetics: 11p11.2

Gene Summary: The protein encoded by this gene is an integral peroxisomal membrane protein. An inactivating nonsense mutation localized to this gene was observed in a patient with Zellweger syndrome of the complementation group CGD/CG9. Expression of this gene product morphologically and biochemically restores the formation of new peroxisomes, suggesting a role in peroxisome organization and biogenesis. Alternative splicing has been observed for this gene and two variants have been described. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (2) uses an alternate terminal exon. The resulting protein (isoform 2) is longer and has a unique C-terminus compared to isoform 1.