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# Product datasheet for SC117821

## PEX3 (NM_003630) Human Untagged Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | PEX3 (NM_003630) Human Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | PEX3 |
| **Synonyms:** | PBD10A; PBD10B; TRG18 |
| **Mammalian Cell Selection:** | None |
| **Vector:** | pCMV6-XL5 |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

**Fully Sequenced ORF:**

>OriGene ORF within SC117821 sequence for NM_003630 edited (data generated by NextGen Sequencing)

ATGCTGAGGTCTGTATGGAATTTTCTGAAACGCCACAAAAAGAAATGCATCTTCCTGGGC
ACGGTCCTTGGAGGAGTATATATTCTGGGGAAATATGGACAGAAGAAAATCAGAGAAATA
CAGGAAAGGGAGGCTGCAGAATACATTGCCCAAGCACGACGACAATATCATTTTGAAAGT
AACCAGAGGACTTGCAATATGACAGTGCTGTCCATGCTTCCAACACTGAGAGAGGCCTTA
ATGCAGCAACTGAATTCCGAGAGCCTCACAGCTCTGCTAAAAAACAGGCCTTCAAACAAG
CTAGAAATATGGGAGGATCTGAAGATAATAAGTTTCACAAGAAGTACTGTGGCTGTATAC
AGTACCTGTATGCTGGTTGTTCTTTTGCGGGTCCAGTTAAACATAATTGGTGGATATATT
TACCTGGATAATGCAGCAGTTGGCAAAAATGGCACTACAATTCTTGCTCCCCCAGATGTC
CAACAGCAGTATTTATCAAGTATTCAGCACCTACTTGGAGATGGCCTGACAGAATTGATC
ACTGTCATTAAACAAGCTGTGCAGAAGGTTTTAGGAAGTGTTTCTCTTAAACATTCTTTG
TCCCTTTTGGACTTGGAGCAAAAACTAAAAGAAATCAGAAATCTCGTTGAGCAGCATAAG
TCTTCTTCTTGGATTAATAAAGATGGATCCAAACCTTTATTATGCCATTATATGATGCCA
GATGAAGAAACTCCATTAGCAGTGCAGGCCTGTGGACTTTCTCCTCGAGACATTACCACT
ATTAAACTTCTCAATGAAACTAGAGACATGTTGGAAAGCCCAGATTTTAGTACAGTTTTG
AATACCTGTTTAAACCGAGGTTTTAGTAGACTTTTAGACAATATGGCTGAGTTCTTTCGA
CCTACTGAACAGGACCTGCAACATGGTAACTCTATGAATAGTCTTTCCAGTGTCAGCCTG
CCTTTAGCTAAGATAATTCCAATAGTAAACGGACAGATCCATTCAGTTTGCAGTGAAACA
CCTAGTCATTTTGTTCAGGATCTGTTGACAATGGAGCAAGTGAAAGACTTTGCTGCTAAT
GTGTATGAAGCTTTTAGTACCCCTCAGCAACTGGAGAAATGA

Clone variation with respect to NM_003630.2
874 c=>t

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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM_003630 unedited
NNNTTGTCANTTTTTGTATACGACTCCTATAGGGCGGCCGCGATTCGGCACGAGGGCGCG
GCGGCAGCGGCAGAAAGCGTAGCTGCTTTGCTGTAGTCCACGCCCCCTTGCCGCTCCGGT
GACAGTCTCTGCGGAAAGTCACGTTTGTGATTTCGGGAGAGCACAGAACGGGACGACGGC
GCTCTTGCTGGGTCATCTGGGCCAGGTGACGAAGAAACAGTTTCCTGGTGAAGCAGTCCC
TCACCCCTAGTCAGCCCACACCCCTAGGGCCTAAAGATGCTGAGGTCTGTATGGAATTTT
CTGAAACGCCACAAAAAGAAATGCATCTTCCTGGGCACGGTCCTTGGAGGAGTATATATT
CTGGGGAAATATGGACAGAAGAAAATCAGAGAAATACAGGAAAGGGAGGCTGCAGAATAC
ATTGCCCAAGCACGACGACAATATCATTTTGAAAGTAACCAGAGGACTTGCAATATGACA
GTGCTGTCCATGCTTCCAACACTGAGAGAGGCCTTAATGCAGCAACTGAATTCCGAGAGC
CTCACAGCTCTGCTAAAAAACAGGCCTTCAAACAAGCTAGAAATATGGGAGGATCTGAAG
ATAATAAGTTTCACAAGAAGTACTGTGGCTGTATACAGTACCTGTATGCTGGTTGTTCTT
TTGCGGGTCCAGTTAAACATAATTGGTGGATATATTTACCTGGATAATGCAGCAGTTGGC
AAAAATGGCACTACAATTCTTGCTCCCCCAGATGTCCAACAGCAGTATTTATCAAGTATT
CAGCACCTACTTGGAGATGGCCTGACAGAATTGATCACTGTCATTAAACAAGCTGTGCAG
AAGGTTNTANGNAAGTGTTTCTCTTTAACATTCTTTGTCCCTTTGGGACTTGNAGCANNA
ACTAAAGAATCAGNAATCTCC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM_003630 unedited
GACCGCGGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTACTAAAATAGTTTAT
TGCAATAAGATTTTCACTGTATTCAAAATCAATACAAAGTAAGTTTTTAAAATTATGTAC
AAATGATTAAAACTATGTAATTAGGTGAGTAAACAGCATCAACACAATTTTAGCCTCTAA
ACCAATATGTAACTTTCTAAGGCTTTTTAATAAAACCTTAAAAAATATAGTGAAGAAATA
GCAAAGAACATAGTTCATCATAGTTGTTGGAATTCACTATTTCCATAAGAATAAAAAAGT
CCTCCATCAAGGTATATTTGAGACAAATAATTTATTATTTTGAAAGGTAGCTGGAGAAAA
GTCTGATTCACTTCTGTTTACAGCAGTCTAGGGAACATTATAATTAAATAGCATATTTTT
CCAAACTTCACACATCCTAGACCTATGTCTCCAACAGATTTTTCCTCAGTATTAATATGG
TAAAGTACACTGAATTTTGTATTTTTATATATATATATGTATATAAAATATCTATATTGA
TTTTTAGTCAGTTTGGAACAAATGTCCATGTGTAACAAATTATTAACAATTCTGATATTT
GCACGTGTATATATATATGCCCACAAAAACTGGTCTGTTGATGAATCTAAAAAAATATAT
TAAGATGCCAAATAAATTGATTTCATTATGAAATGAAGACTTTTATTAAGAATATATTTT
ATCAGGCATTTTGATAACANACTGTTACTCTAAGTATAGGTGATTTACCCAGTGTATTCT
AAAAGTAAATGAATCCACTGTAGTTTTTCCTGAAGGAANAAATCACTTCTCCAGTGCTGA
GGGGTACTANNAGCTCATACACTTAGCAGCAAGNCTTCACTTGCTCATTGCAACAGATCT
GACAAAAGACTAGTTGTCACTGCAACTGATGGACTGTCGCTACTATGGATTACTACCTAA
GCAGCTGACCTGAAGACTTCTAGATACCATGTGAGTCCGTN

**Restriction Sites:** NotI-NotI

**ACCN:** NM_003630

**Insert Size:** 2100 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).

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|---|---|
| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_003630.1, NP_003621.1 |
| **RefSeq Size:** | 1979 bp |
| **RefSeq ORF:** | 1122 bp |
| **Locus ID:** | 8504 |
| **UniProt ID:** | P56589 |
| **Cytogenetics:** | 6q24.2 |
| **Domains:** | Peroxin-3 |
| **Protein Families:** | Druggable Genome |
| **Gene Summary:** | The product of this gene is involved in peroxisome biosynthesis and integrity. It assembles membrane vesicles before the matrix proteins are translocated. 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 Zellweger syndrome (ZWS). [provided by RefSeq, Oct 2008] |