

Product datasheet for **SC119985**

PEX7 (NM_000288) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PEX7 (NM_000288) Human Untagged Clone
Tag:	Tag Free
Symbol:	PEX7
Synonyms:	PBD9B; PTS2R; RCDP1; RD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_000288, the custom clone sequence may differ by one or more nucleotides

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ATGAGTGCGGTGTGCGGTGGAGCGGCGCGGATGCTGCGGACGCCGGGACGCCACGGCTACGCCGCCGAGT
TCTCCCCGTACCTGCCGGGCCGCTGGCCTGCGCCACCGCGCAGCACTACGGCATCGCGGGCTGTGGAAC
CCTACTAATATTGGATCCAGATGAAGCTGGGCTAAGGCTTTTTAGAAGCTTTGACTGGAATGATGGTTTG
TTTGATGTGACTTGGAGTGAGAACAACGAACATGTCTCATCACCTGTAGTGGCGATGGCTCGCTGCAGC
TCTGGGACTGCCAAAGCTGCAGGGCCACTGCAAGTCTATAAAGAACACGCTCAGGAGGTGTATAGTGT
TGATTGGAGCCAAACCAGAGGTGAACAGCTTGTGGTGTCTGGCTCATGGGATCAAAGTGTCAAATTTGTTG
GATCCAAGTGTGGAAAGTCTCTGTGCACCTTTAGAGGCCATGAAAGTATTATTTATAGACAATCTGGT
CTCCCCACATCCCTGGTTGTTTTGCTTCAGCCTCAGGTGATCAGACTCTGAGAATATGGGATGTGAAGGC
AGCAGGAGTAAGAATCGTGATTCCTGCACATCAGGCAGAAATCTTGAGTTGTGACTGGTGTAAATACAAT
GAGAATTTGCTGGTGACCGGGGCGGTTGACTGTAGTTTGAGAGGCTGGGACTTAAGGAATGTACGACAAC
CAGTGTGTTGAACTTCTTGGTCATACCTATGCTATTAGGAGGGTGAATTTTACCATTTCATGCTTCTGT
GCTGGCCTCTTGCTCGTATGATTTTACTGTAAGATTCTGGAACTTTTCAAAGCCTGACTCTTCTTGTAA
ACAGTGGAGCATCATACAGATTTACTTGTGGTTTAGACTTCAGTCTTCAGAGCCCCACTCAGGTGGCTG
ACTGTTCTTGGGATGAAACAATAAAGATCTATGACCCTGCTTGTCTTACTATTCTGCTTGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_000288 unedited</p> <pre> AAAAAAGGTGCGNGATTAGTATACGACTCATATAGGGCGGCCGCGATTCCGGCACGAGGCC GACTCGGNACGGCTTCCGCGGCCGGGACGCGAGGGCCGGGGCGGGCGGGATGAGT GCGGTGTGCGGTGGAGCGGCCGGATGCTGCGGACGCCGGGACGCCACGGCTACGCCGCC GAGTTCTCCCCGTACCTGCCGGGCCCTGGCCTGCGCCACCGCGCAGCACTACGGCATC GCGGGCTGTGGAACCCTACTAATATTGGATCCAGATGAAGCTGGGCTAAGGCTTTTTAGA AGCTTTGACTGGAATGATGGTTTGTGGATGTGACTTGGAGTGAGAACAACGAACATGTC CTCATCACCTGTAGTGGCGATGGCTCGCTGCAGCTCTGGGACACTGCCAAAGCTGCAGGG CCTACTGCAAGTCTATAAAGAACACGCTCAGGAGGTGTATAGTGTGATTGGAGCCAAACC AGAGGTGAACAGCTTGTGGTGTCTGGCTCATGGGATCAAATGTCAAATTGTGGGATCCA ACTGTTGAAAGTCTCTGTGCACCTTTAGAGGCCATGAAAGTATTATTTATAGCACAAATC TGGTCTCCCCACATCCCTGGTTGTTTTGCTTCAGCCTCAGGTGATCAGACTCTGAGAATA TGGGATGTGAAGGCAGCAGGAGTTAGAATCGGGATTCTGCACCTNAGGCACAAATCCTG AATTGTGACTGGTGAATACAATGAGTATTTGCCTGGTGACCGTGGCGGTTGACTGTAT TTTGAGAGGCTGGCACTAAGGAATGTCCAAACCCGTTGAACTTTTTTGGTCTACCC ATGCTTTAAGAGGGTGAATTTTACCATTCTAGCCTCTCGGCTGGCCCTTTGTTTGAAG ATTTAACGCT </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_000288 unedited</p> <pre> ATGCCCGCGCCCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAGGT TTAAATTACAAGTCTTTGTTTCCAAAAACGTGATAAAACGTTTTGTTAATAAAAAATCTC TTGCCCTTAAAAGGAAAGGAAATAATTTCAATTCATTGTAATATTATCTGGGTTAGAT ATTTTCTGAAACAAGGTCTGTCACCTAGGCTGGAATGCCTTAATCTGGGTCAGTGCAGCC TCAACTTCCCAGGATCAAGCAATCCTCCTGCCTTAGCCTCCTGAGTATCTGGGACTACAG GCACACGTCACCATGCCTGACTACTTTGGGTTGGATACTTTTAGGGCCTATCACAAATTC TGCTGATACAGAGAACACCCATTGTAGACCCACTTTTACTGACCACACCTTGGTGAATG CCATTAGTTTCATATAGAGGCAAGCAGCAAGAAAAAAGGCTGTCAAACCTCATCAGTGTGAC AACTCTAAGGATGTGGTTAAGCACCATGTTCCCTGCAGTATACTTAGGTTAAGCAGTGTG CTCTTTATGGGTCCTCTCAAAGCAATCTGTATTGCTGATTCAAGAACCAAAAAAAGTG GGCACTGTGGCATGTCCCATATCCCACGTAATTGGGAGCCTGAGGGGGAAGGAGGGCT TCAGCCTAGGATCAAACCCGTTTTGGGCAACATAGTGAGGCCCATGCCTGACCCCT TTTTGTTGCTGTGCCAGCAAGTGGGCAGGGCCCAACCCTGCCCAAGGCCAAAAACCTGC CCCTCTGGCCCTAGCCCTGACCTGCGAAACTGGTCAACAATTCCTTTATCTTGAACCCCC AAACTACTACCGGCAATTTTGGCCCCACCCTATAACCTTTCAGGACCTTGCGGGATTC CTACACAACCCCTTCTTTGCC </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_000288
Insert Size:	3270 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_000288.1](#), [NP_000279.1](#)

RefSeq Size: 1451 bp

RefSeq ORF: 972 bp

Locus ID: 5191

UniProt ID: [O00628](#)

Cytogenetics: 6q23.3

Domains: WD40

Protein Families: Druggable Genome

Gene Summary: This gene encodes the cytosolic receptor for the set of peroxisomal matrix enzymes targeted to the organelle by the peroxisome targeting signal 2 (PTS2). Defects in this gene cause peroxisome biogenesis disorders (PBDs), which are characterized by multiple defects in peroxisome function. There are at least 14 complementation groups for PBDs, with more than one 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 have been associated with PBD complementation group 11 (PBD-CG11) disorders, rhizomelic chondrodysplasia punctata type 1 (RCDP1), and Refsum disease (RD). [provided by RefSeq, Oct 2008]