

Product datasheet for **SC337833**

PEX1 (NM_001282678) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PEX1 (NM_001282678) Human Untagged Clone
Tag:	Tag Free
Symbol:	PEX1
Synonyms:	HMLR1; PBD1A; PBD1B; ZWS; ZWS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001282678, the custom clone sequence may differ by one or more nucleotides

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ATGATGAAAGAACTTCAAACCAAGCAACTTCAGTCAAATACTGTGGGAATCACTGAATCTAATGAAAACG
AGTCAGAGATTCCAGTTGACTCATCATCAGTAGCAAGTTTATGGACTATGATAGGAAGCATTTTTCCTT
TCAATCTGAGAAGAAACAAGAGACATCTGGGGTTTAACTGAAATCAATGCATTCAAAAATATGCAGTCA
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CAACCTCTGTTTTTCATAAACACTGTGCCATTCATGTATTTCCATGGGACCAGGAATATTTTGATGTAGA
GCCAGCTTTACTGTGACATATGGAAAGCTAGTTAAGCTACTTTCTCAAAGCAACGCAAAAGTAAACA
AAACAAAATGTGTTATCACCTGAAAAGAGAAGCAGATGTCAGAGCCACTAGATCAAAAAAATTAGGT
CAGATCATAATGAAGAAGATGAGAAGGCCCTGTGTGCTACAAGTAGTCTGGAATGGACTTGAGAATTGAA
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AGGAAGAGACTAAATATAGAAATGCATGCCGTAGTCAGGATAACTCCAGTGGAAGTTACCCCTAAAATTC
CAAGATCTCTAAAGTTACAACCTAGAGAGAATTTACCTAAAGACATAAGTGAAGAAGACATAAAAATCTG
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AAGCTGGAACCTAAAGATGGACTGAAGGAATTTCTCTGAGTATAGTTTCTTCTGGGAAAAAGAAAAAG
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TTGTTTCTGCTCAAGGAGTTCACATATTCAGTGCCTCAACACATTCAGCCTCCTAATCAGGAACAAAAG

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ATGTGAAATTCCTGTGTAATGTAATAAAAAATAAATTGGACTGTGATATAAACAAGTTCACCGATCTTGAC
 CTGCAGCATGTAGCTAAAGAACTGGCGGGTTTGTGGCTAGAGATTTTACAGTACTTGTGGATCGAGCCA
 TACATTCTCGACTCTCTCGTCAGAGTATATCCACCAGAGAAAAATTAGTTTTAACAACTTGGACTTCCA
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 ATCCAGAATTATTTGCAAACCTGCCCATACGACAAAGAACAGGAATACTGTTGTATGGTCCGCTGGAAC
 AGGAAAAACCTTACTAGCTGGGTAATTGCACGAGAGAGTAGAATGAATTTTATAAGTGCAAGGGGCCA
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 TTCAGCTGGAGATGGAGAATGTGGCTTAGATCAGTCCCTGTTTTCTTTAGAGATGTCGAGATCCTTCCA
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 CCTCTTCTGATTTGAGCTCACAATGTCTCTGACCAAGCTCCATGACTCAGGATTTGCCTGGAGTTCC
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 ACACAAGAACAAGAGATCAACTGAGGGCAGATATCAGTATTATCAAAGGCAGATACCGGAGCCAAAGTG
 GAGAGGACGAATCCATGAACCAACCAGGACCAATCAAACCAGACTGGCTATTAGTCAGTCACATTTAAT
 GACTGCACTTGGTCACACAAGACCATCCATTAGTGAAGATGACTGGAAGAATTTTGTGAGCTATATGAA
 AGCTTTTCAAATCCAAAGAGGAGAAAAAATCAAAGTGAACAATGTTTCGACCTGGACAGAAAGTAACTT
 TAGCATAA

- Restriction Sites:** Sgfl-RsrII
- ACCN:** NM_001282678
- 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_001282678.1](#), [NP_001269607.1](#)
- RefSeq Size:** 4427 bp
- RefSeq ORF:** 3228 bp
- Locus ID:** 5189

UniProt ID: [O43933](#)

Cytogenetics: 7q21.2

Protein Families: Druggable Genome

Gene Summary: This gene encodes a member of the AAA ATPase family, a large group of ATPases associated with diverse cellular activities. This protein is cytoplasmic but is often anchored to a peroxisomal membrane where it forms a heteromeric complex and plays a role in the import of proteins into peroxisomes and peroxisome biogenesis. Mutations in this gene have been associated with complementation group 1 peroxisomal disorders such as neonatal adrenoleukodystrophy, infantile Refsum disease, and Zellweger syndrome. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Sep 2013]
Transcript Variant: This variant (3) uses an alternate donor splice site in the 5' region, which results in translation initiation from an in-frame downstream start codon, compared to variant 1. The resulting isoform (3) has a shorter N-terminus compared to isoform 1.