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Product datasheet for SC337950

PEX1 (NM_001282677) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PEX1 (NM_001282677) 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_001282677, the custom clone sequence may differ by one or more nucleotides

ATGTGGGGCAGCGATCGCCTGGCGGGTGCTGGGGGAGGCGGGGCGGCAGTGACTGTGGCCTTCACCAACG
CTCGCGACTGCTTCCTCCACCTGCCGCGGCGTCTCGTGGCCCAGCTGCATCTGCTGCAGAATCAAGCTAT
AGAAGTGGTCTGGAGTCACCAGCCTGCATTCTTGAGCTGGGTGGAAGGCAGGCATTTTAGTGATCAAGGT
GAAAATGTGGCTGAAATTAACAGACAAGTTGGTCAAAAACTTGGACTCTCAAATGGGGGACAGGTATTTC
TCAAGCCATGTTCCCATGTGGTATCTTGTCAACAAGTTGAGGTGGAACCCCTCTCAGCAGATGATTGGGA
GATACTGGAGCTGCATGCTGTTTCCCTTGAACAACATCTTCTAGATCAAATTCGAATAGTTTTTCCAAAA
GCCATTTTTCCTGTTTGGGTTGATCAACAAACGTACATATTTATCCAAATTGTTGCACTAATACCAGCTG
CCTCTTATGGAAGGCTGGAAACTGACACCAAACTCCTTATTCAGCCAAAGACACGCCGAGCCAAAGAGAA
TACATTTTCAAAAGCTGATGCTGAATATAAAAAACTTCATAGTTATGGAAGAGACCAGAAAGGAATGATG
AAAGAACTTCAAACCAAGCAACTTCAGTCAAATACTGTGGGAATCACTGAATCTAATGAAAACGAGTCAG
AGATTCCAGTTGACTCATCATCAGTAGCAAGTTTATGGACTATGATAGGAAGCATTTTTTCCTTTCAATC
TGAGAAGAAACAAGAGACATCTTGGGGTTTAACTGAAATCAATGCATTCAAAAATATGCAGTCAAAGGTT
GTTCCTCTAGACAATATTTTCAGAGTATGCAAATCTCAACCTCCTAGTATATATAACGCGTCAGCAACCT
CTGTTTTTCATAAACACTGTGCCATTCATGTATTTCCATGGGACCAGGAATATTTTGATGTAGAGCCCAG
CTTTACTGTGACATATGGAAAGCTAGTTAAGCTACTTTCTCCAAAGCAACAGCAAAGTAAAACAAAACAA
AATGTGTTATCACCTGAAAAAGAGAAGCAGATGTCAGAGCCACTAGATCAAAAAAAAATTAGGTCAGATC
ATAATGAAGAAGATGAGAAGGCCTGTGTGCTACAAGTAGTCTGGAATGGACTTGAAGAATTGAACAATGC
CATCAAATATACCAAAAATGTAGAAGTTCTCCATCTTGGGAAAGTCTGGATTCCAGATGACCTGAGGAAG
AGACTAAATATAGAAATGCATGCCGTAGTCAGGATAACTCCAGTGGAAGTTACCCCTAAAATTCCAAGAT
CTCTAAAGTTACAACCTAGAGAGAATTTACCTAAAGACATAAGTGAAGAAGACATAAAAACTGTATTTTA
TTCATGGCTACAGCAGTCTACTACCACCATGCTTCCTTTGGTAATATCAGAGGAAGAATTTATTAAGCTG
GAAACTAAAGATGGACTGAAGGAATTTTCTCTGAGTATAGTTCATTCTTGGGAAAAAGAAAAAGATAAAA
ATATTTTTCTGTTGAGTCCCAATTTGCTGCAGAAGACTACAATACAAGTCCTTCTAGATCCTATGGTAAA

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AGAAGAAAACAGTGAGGAAATTGACTTTATTCTTCCTTTTTTAAAGCTGAGCTCTTTGGGAGGAGTGAAT
TCCTTAGGCGTATCCTCCTTGGAGCACATCACTCACAGCCTCCTGGGACGCCCTTTGTCTCGGCAGCTGA
TGTCTCTTGTTGCAGGACTTAGGAATGGAGCTCTTTTACTCACAGGAGGAAAGGGAAGTGGAAAATCAAC
TTTAGCCAAAGCAATCTGTAAAGAAGCATTTGACAAACTGGATGCCCATGTGGAGAGAGTTGACTGTAAA
GCTTTACGAGCTTTGAATGATATGATAAAAGAGTTTATCTCCATGGGAAGTTTGGTTGCACTGATTGCCA
CAAGTCAGTCTCAGCAATCTCTACATCCTTTACTTGTTTCTGCTCAAGGAGTTCACATATTTCAGTGCGT
CCAACACATTCAGCCTCCTAATCAGGAACAAAGATGTGAAATTCTGTGTAATGTAATAAAAAATAAATTG
GACTGTGATATAAACAAGTTCACCGATCTTGACCTGCAGCATGTAGCTAAAGAAACTGGCGGGTTTGTGG
CTAGAGATTTTACAGTACTTGTGGATCGAGCCATACATTCTCGACTCTCTCGTCAGAGTATATCCACCAG
AGAAAAATTAGTTTTAACAACATTGGACTTCCAAAAGGCTCTCCGCGGATTTCTTCCTGCGTCTTTGCGA
AGTGTCAACCTGCATAAACCTAGAGACCTGGGTTGGGACAAGATTGGTGGGTTACATGAAGTTAGGCAGA
TACTCATGGATACTATCCAGTTACCTGCCAAGTATCCAGAATTATTTGCAAACTTGCCCATACGACAAAG
AACAGGAATACTGTTGTATGGTCCGCCTGGAACAGGAAAAACCTTACTAGCTGGGGTAATTGCACGAGAG
AGTAGAATGAATTTTATAAGTGTCAAGGGGCCAGAGTTACTCAGCAAATACATTGGAGCAAGTGAACAAG
CTGTTCGGGATATTTTTATTAGAGCACAGGCTGCAAAGCCCTGCATTCTTTTCTTTGATGAATTTGAATC
CATTGCTCCTCGGCGGGGTCATGATAATACAGGAGTTACAGACCGAGTAGTTAACCAGTTGCTGACTCAG
TTGGATGGAGTAGAAGGCTTACAGGGTGTTTATGTATTGGCTGCTACTAGTCGCCCTGACTTGATTGACC
CTGCCCTGCTTAGGCCTGGTCGACTAGATAAATGTGTATACTGTCCTCCTCCTGATCAGGTGTCACGTCT
TGAAATTTTAAATGTCCTCAGTGACTCTCTACCTCTGGCAGATGATGTTGACCTTCAGCATGTAGCATCA
GTAACTGACTCCTTTACTGGAGCTGATCTGAAAGCTTTACTTTACAATGCCCAATTGGAGGCCTTACATG
GAATGCTGCTCTCGAGTGGACTCCAGGATGGAAGTTCCAGCTCTGATAGTGACCTAAGTCTGTCTTCAAT
GGTCTTTCTTAACCATAGCAGTGGCTCTGACGATTCAGCTGGAGATGGAGAATGTGGCTTAGATCAGTCC
CTTGTTTCTTTAGAGATGTCCGAGATCCTTCCAGATGAATCAAAATTCAATATGTACCGGCTCTACTTTG
GAAGCTCTTATGAATCAGAACTTGGAAATGGAACCTCTTCTGATTTGAGCTCACAATGTCTCTCTGCACC
AAGCTCCATGACTCAGGATTTGCCTGGAGTTCCTGGGAAAGACCAGTTGTTTTCACAGCCTCCAGTGTTA
AGGACAGCTTCACAAGAGGGTTGCCAAGAACTTACACAAGAACAAAGAGATCAACTGAGGGCAGATATCA
GTATTATCAAAGGCAGATACCGGAGCCAAAGTGGAGAGGACGAATCCATGAACCAACCAGGACCAATCAA
AACCAGACTGGCTATTAGTCAGTCACATTTAATGACTGCACTTGGTCACACAAGACCATCCATTAGTGAA
GATGACTGGAAGAATTTTGCTGAGCTATATGAAAGCTTTCAAAATCCAAAGAGGAGAAAAAATCAAAGTG
GAACAATGTTTCGACCTGGACAGAAAGTAACTTTAGCATAA

Restriction Sites: AscI-RsrII

ACCN: NM_001282677

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_001282677.1, NP_001269606.1
RefSeq Size:	4221 bp
RefSeq ORF:	3681 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 (2) is missing an in-frame coding exon compared to variant 1. The resulting shorter isoform (2) lacks an internal protein segment compared to isoform 1.