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Product datasheet for SC326136

PEX5 (NM_001131026) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PEX5 (NM_001131026) Human Untagged Clone
Tag:	Tag Free
Symbol:	PEX5
Synonyms:	PBD2A; PBD2B; PTS1-BP; PTS1R; PXR1; RCDP5
Vector:	pCMV6 series

View online »

Fully Sequenced ORF:

>NCBI ORF sequence for NM_001131026, the custom clone sequence may differ by one or more nucleotides

ATGGCAATGCGGGAGCTGGTGGAGGCCGAATGCGGGGGTGCCAACCCGCTCATGAAGCTC
GCCGGGCACTTCACCCAGGACAAGGCCCTTCGGCAGGAGGGATTGAGGCCTGGCCCCTGG
CCCCCCGGAGCCCCGGCCTCTGAGGCAGCCTCCAAGCCTTTGGGAGTAGCTTCTGAAGAT
GAGTTGGTGGCTGAATTCCTGCAGGACCAGAATGCACCCCTTGTGTCCCGTGCCCCTCAG
ACCTTCAAGATGGATGACCTCCTGGCTGAGATGCAGCAGATTGAGCAGTCAAACTTCCGC
CAGGCTCCCCAGAGAGCCCCTGGTGTGGCAGACTTGGCCTTGTCTGAGAACTGGGCCCAG
GAGTTTCTTGCAGCTGGAGATGCTGTGGATGTAACTCAGGATTATAATGAGACTGACTGG
TCCCAAGAATTCATCTCTGAAGTTACAGACCCCTTGTCTGTGTCCCCTGCCCGCTGGGCT
GAGGAATATTTGGAGCAATCAGAGGAGAAGCTGTGGCTGGGAGAACCTGAGGGAACAGCC
ACCGATCGCTGGTATGATGAATATCATCCTGAGGAGGATCTGCAGCACACGGCCAGTGAC
TTTGTGGCCAAAGTGGATGACCCCAAATTGGCTAATTCTGAGTTCCTGAAATTCGTGCGG
CAGATTGGCGAAGGGCAGGTGTCCCTGGAGTCCGGTGCAGGGTCGGGCCGAGCTCAGGCA
GAACAGTGGGCAGCAGAGTTTATACAGCAGCAGGGTACATCAGATGCCTGGGTTGACCAG
TTCACAAGACCAGTAAACACATCTGCCCTTGATATGGAGTTTGAACGAGCCAAGTCAGCT
ATAGAGTCTGATGTCGATTTCTGGGACAAGTTGCAGGCAGAGTTGGAGGAGATGGCAAAA
CGGGATGCTGAGGCCCACCCCTGGCTTTCTGACTATGATGACCTTACGTCAGCTACCTAT
GATAAGGGGTACCAGTTTGAGGAGGAGAACCCCTTGCGTGATCACCCTCAGCCTTTTGAA
GAAGGGCTGCGGCGCCTTCAGGAGGGGGACCTGCCAAATGCTGTGCTGCTTTTTGAGGCA
GCTGTGCAGCAGGATCCTAAGCACATGGAAGCTTGGCAGTATCTGGGTACCACCCAGGCA
GAGAATGAACAAGAACTATTAGCCATCAGTGCATTGCGGAGGTGTCTGGAGCTAAAGCCA
GATAACCAGACAGCACTGATGGCGCTGGCTGTGAGCTTCACCAACGAGTCCCTGCAGCGA
CAGGCCTGTGAAACCCTACGAGACTGGCTGCGGTACACACCAGCCTATGCCCATCTGGTG
ACACCTGCTGAAGAAGGGGCTGGTGGGGCAGGACTGGGCCCCAGCAAGCGTATCCTGGGA
TCTCTCTTGTCTGACTCCCTGTTTCTTGAAGTGAAAGAGCTCTTCCTGGCAGCTGTGCGG
CTGGACCCTACCTCCATTGACCCTGATGTGCAGTGTGGCTTGGGAGTCCTTTTCAACCTG
AGTGGGGAGTATGACAAGGCCGTGGACTGCTTCACAGCTGCCCTCAGCGTTCGTCCCAAT
GACTATTTGCTGTGGAATAAGCTAGGCGCCACCCTGGCCAATGGAAACCAGAGTGAAGAA
GCAGTAGCTGCGTACCGCCGGGCCCTCGAGCTCCAGCCTGGCTATATCCGGTCCCGCTAT
AACCTGGGCATCAGCTGCATCAACCTCGGGGCTCACCGGGAGGCTGTGGAGCACTTTCTG
GAGGCCCTGAACATGCAGAGGAAAAGCCGGGGCCCCCGGGGTGAAGGAGGTGCCATGTCG
GAGAACATCTGGAGCACCCTGCGTTTGGCATTGTCTATGTTAGGCCAGAGCGATGCCTAT
GGGGCAGCCGACGCGCGGGATCTGTCCACCCTCCTAACTATGTTTGGCCTGCCCCAG

Restriction Sites: Please inquire

ACCN: NM_001131026

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001131026.1, NP_001124498.1
RefSeq Size:	2693 bp
RefSeq ORF:	1920 bp
Locus ID:	5830
UniProt ID:	P50542
Cytogenetics:	12p13.31
Protein Families:	Druggable Genome
Gene Summary:	The product of this gene binds to the C-terminal PTS1-type tripeptide peroxisomal targeting signal (SKL-type) and plays an essential role in peroxisomal protein import. 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 of neonatal adrenoleukodystrophy (NALD), a cause of Zellweger syndrome (ZWS) as well as may be a cause of infantile Refsum disease (IRD). Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Oct 2008] Transcript Variant: This variant (5) differs in the 5' and 3' UTRs, lacks a portion of the 5' coding region and initiates translation at a downstream start codon, compared to variant 6. The encoded isoform (d) has a shorter N-terminus compared to isoform e. Variants 4, 5, and 12-15 all encode the same isoform (d).