

Product datasheet for RC207612L1

PEX1 (NM_000466) Human Tagged Lenti ORF Clone

Product data:

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:	Expression Plasmids
Product Name:	PEX1 (NM_000466) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	PEX1
Synonyms:	HMLR1; PBD1A; PBD1B; ZWS; ZWS1
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC207612).
Restriction Sites:	AscI-RsrII
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Asc I ORF Rsr II GGC GCG CC C ATG // NNŇ AG C GGA CCG

Kozak EcoR I BamH I RBS Sgf I Asc I CTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGCGCCCCC ORF Rsr II Mlu I Notl <u>Xhol</u> Mvc.Tag --- --- ---NNN AGC GGA CCG ACG CGT ACG CGG CCG CTC GAG CAG AAA CTC ATC TCA GAA GAG S G P T R T R P L E Q K L I S E E DDK.Tag GAT CTG GCA GCA AAT GAT ATC CTG GAT TAC AAG GAT GAC GAC GAT AAG GTT TAA ACGGCCGGCC D L A A N D I L D Y K D D D K V Stop

* The last codon before the Stop codon of the ORF.

ACCN: ORF Size: NM_000466 3849 bp



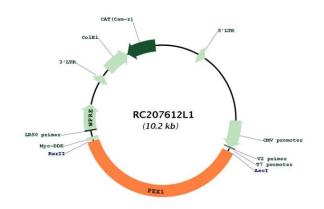
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PEX1 (NM_000466) Human Tagged Lenti ORF Clone – RC207612L1	
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <u>More info</u>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 000466.2, NP 000457.1</u>
RefSeq Size:	4390 bp
RefSeq ORF:	3852 bp
Locus ID:	5189
UniProt ID:	<u>043933</u>
Cytogenetics:	7q21.2
Domains:	ΑΑΑ, ΑΑΑ
Protein Families:	Druggable Genome
MW:	142.9 kDa
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

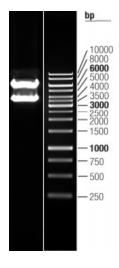
adrenoleukodystrophy, infantile Refsum disease, and Zellweger syndrome. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Sep 2013]

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Product images:



Circular map for RC207612L1



Double digestion of RC207612L1 using Ascl and RsrII

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