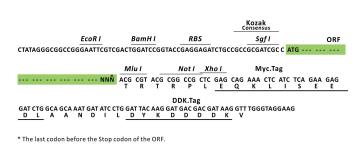


Product datasheet for RC226067L3

PEX5 (NM_001131023) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids Product Name: PEX5 (NM_001131023) Human Tagged Lenti ORF Clone Tag: Myc-DDK Symbol: PEX5 PBD2A; PBD2B; PTS1-BP; PTS1R; PXR1; RCDP5 Synonyms: Mammalian Cell Puromycin Selection: Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092) E. coli Selection: Chloramphenicol (34 ug/mL) The ORF insert of this clone is exactly the same as(RC226067). **ORF** Nucleotide Sequence: **Restriction Sites:** Sgfl-Mlul **Cloning Scheme:** Cloning sites used for ORF Shuttling: ORF Sqf I Mlu I



--- GCG ATC GC C ATG --- //--- NNN ACG CGT ---

ACCN: NM_001131023 ORF Size: 1962 bp

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OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore,
OTI Disclaimer:	OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery.
	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 Meth	 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 001131023.1</u>
RefSeq ORF:	1965 bp
Locus ID:	5830
UniProt ID:	<u>P50542</u>
Cytogenetics:	12p13.31
Protein Families:	Druggable Genome
MW:	72.1 kDa

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Section 2226067L3 PEX5 (NM_001131023) Human Tagged Lenti ORF Clone – RC226067L3

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]

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