

Product datasheet for **RC202031**

PEX3 (NM_003630) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PEX3 (NM_003630) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PEX3
Synonyms:	PBD10A; PBD10B; TRG18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202031 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGAGGTCTGTATGGAATTTCTGAAACGCCCAAAAAGAAATGCATCTTCTGGGCACGGTCTTG
GAGGAGTATATATTCTGGGAAATATGGACAGAAGAAAATCAGAGAAATACAGGAAAGGGAGGCTGCAGA
ATACATTGCCAAGCAGCAGCAATATCATTGAAAGTAACCAGAGGACTTGAATATGACAGTGCTG
TCCATGCTTCCAACACTGAGAGAGGCCTAATGCAGCAACTGAATCCGAGAGCCTCACAGCTCTGCTAA
AAAACAGGCCTTCAAACAAGCTAGAAATATGGGAGGATCTGAAGATAATAAGTTTACAAGAAGTACTGT
GGCTGTATACAGTACCTGTATGCTGGTTGTTCTTTGCGGGTCCAGTTAAACATAAATGGTGATATATT
TACCTGGATAATGCAGCAGTTGGCAAAAATGGCACTACAATTCTTGTCCCCAGATGTCCAACAGCAGT
ATTTATCAAGTATTCAGCACCTACTTGGAGATGGCCTGACAGAATTGATCACTGTCAATAAACAAGCTGT
GCAGAAGGTTTTAGGAAGTGTCTCTTAAACATCTTTGTCCTTTGGACTTGGAGCAAAAACAAAA
GAAATCAGAAATCTCGTTGAGCAGCATAAGTCTTCTTCTTGATTAATAAAGATGGATCCAAACCTTTAT
TATGCCATTATATGATGCCAGATGAAGAACTCCATTAGCAGTGCAGGCCTGTGGACTTTCTCCTCGAGA
CATTACCACTATTAACCTTCTCAATGAACTAGAGACATGTTGGAAAGCCAGATTTTAGTACAGTTTTG
AATACCTGTTTAAACCGAGGTTTTAGTAGACTTCTAGACAATATGGCTGAGTTCTTTCGACCTACTGAAC
AGGACCTGCAACATGGTAACTCTATGAATAGTCTTCCAGTGTGAGCCTGCTTTAGCTAAGATAATTCC
AATAGTAAACGGACAGATCCATTAGTGTGAGTGAACACCTAGTCAATTTGTTGAGGATCTGTTGACA
ATGGAGCAAGTGAAGACTTTGCTGCTAATGTGTATGAAGCTTTTAGTACCCCTCAGCAACTGGAGAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202031 protein sequence
 Red=Cloning site Green=Tags(s)

MLRSVWNFLKRHKKCCIFLGTVLGGVYILGKYGQKKIREIQERAAEYIAQARRQYHFESNQRTCNMTVL
 SMLPTLREALMQQLNSESLTALLKNRPSNKLEIWEDLKIISFTRSTVAVYSTCMLVLLRVQLNIIGGYI
 YLDNAAVGKNGTTILAPPDVQQYLSSIQHLLGDGLTELITVIKQAVQKVLGSVSLKHSLSLLDLEQKLLK
 EIRNLVEQHKSSSWINKDGSKPLLCHYMPDEETPLAVQACGLSPRDITTIKLLNETRDMLESDFSTVL
 NTCLNRGFSRLLDNMAEFFRPTEQDLQHGNSMNSLSSVSLPLAKIIPIVNGQIHSVCSETPSHFVQDLLT
 MEQVKDFAANVYEAFTSTPQOLEK

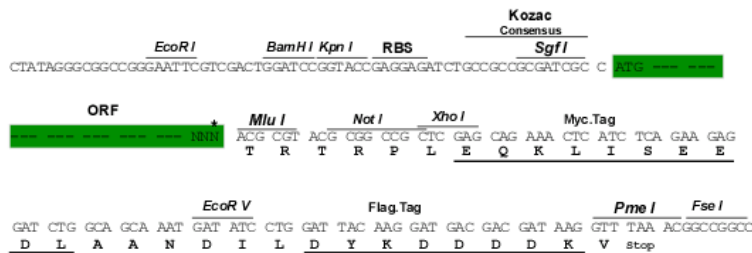
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6195_d11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_003630

ORF Size: 1119 bp

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. [More info](#)

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:

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_003630.3](#)

RefSeq Size: 2774 bp

RefSeq ORF: 1122 bp

Locus ID: 8504

UniProt ID: [P56589](#)

Cytogenetics: 6q24.2

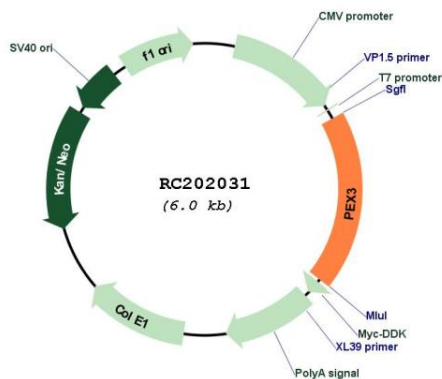
Domains: Peroxin-3

Protein Families: Druggable Genome

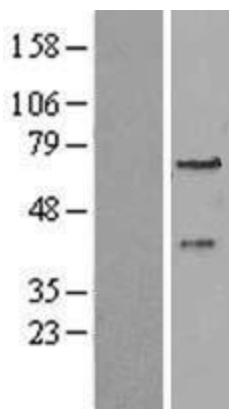
MW: 42.1 kDa

Gene Summary: The product of this gene is involved in peroxisome biosynthesis and integrity. It assembles membrane vesicles before the matrix proteins are translocated. 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 Zellweger syndrome (ZWS). [provided by RefSeq, Oct 2008]

Product images:



Circular map for RC202031



Western blot validation of overexpression lysate (Cat# [LY401203]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202031 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).