

Product datasheet for RC218196

PEX2 (NM_000318) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PEX2 (NM_000318) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PEX2
Synonyms:	PAF1; PBD5A; PBD5B; PMP3; PMP35; PXMP3; RNF72; ZWS3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC218196 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTTCCAGAAAAGAGAATGCGAAGAGTGCAACAGAGTGCTAAGAATAAGCCAGTTGGATGCACTTG
AACTAAACAAGGCCCTGGAGCAGCTAGTTTGGTCCCAGTTTACTCAGTGCTTTCATGGATTTAAACCTGG
GCTGTTAGCTCGCTTTGAGCCAGAGGTGAAAGCGTGCTTATGGGTTTTCTGTGGAGATTCACCATCTAC
TCCAAAAATGCCACAGTGGGACAGTCAGTTTTGAATATTAAGTACAAAAATGATTTTTCCCTAACCTGA
GATATCAGCCACCCAGTAAAAATCAAAAAATCTGGTATGCTGTTTGTACAATTGGTGGCAGTGGTTAGA
AGAACGATGCTATGATTTGTTTCGAAACCATCATTTAGCATCATTTGGGAAAGTCAAGCAGTGTGTGAAT
TTTGTGATTGGACTTTTGAAATTAGGTGGGCTGATTAATTTTTGATTTTCTTCAGAGGGGAAAGTTTG
CACTTTGACAGAACGTCTCCTAGGTATTCATTCTGTATTTTGAAGCCTCAAAACATACGTGAAGTTGG
CTTTGAATACATGAATAGGGAACCTCTCTGGCATGGTTTTGCTGAATTTCTGATTTTCTTACCCTT
ATCAATGTCCAGAAGTTGAAAGCCAAGCTGTCTCATGGTGTATTCCTCTACTGGTGCACCTAATAGTG
ACAATACATTAGCCACAGTGGCAAAGAATGCGCTCTATGTGGAGAGTGGCCACCATGCCTCACCCAT
AGGATGTGAGCATATTTTCTGTTATTTCTGTGCTAAGAGTAGTTTCTTATTTGACGTGTACTTTACTTGT
CCTAAGTGTGGCAGAGAAGTACACAGTCTGCAGCCACTGAAATCAGGAATCGAGATGTGAGAAGTAAATG
CTCTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC218196 protein sequence
 Red=Cloning site Green=Tags(s)

MASRKENAKSANRVLRLISQLDALELNKALEQLVWSQFTQCFHGFKPGLLARFEPEVKACLWVFLWRFTIY
 SKNATVQGQSVLNIKYKNDFSPNLRYPSPSKNQKIWYAVCTIGGRWLEERCYDLFRNHHLASFQKVKQCVN
 FVIGLLKLGGFLNFLIFLQRGKFATLTERLLGIHSVFCFKPQNIREVGFVYMNRELLWHGFAEFLIFLLPL
 INVQKLKAKLSSWCIPLTGAPNSDNTLATSGKECALCGEWPMPHTIGCEHIFCYFCAKSSFLFDVYFTC
 PKCGTEVHSLQPLKSGIEMSEVNAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6454_h05.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_000318

ORF Size: 915 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_000318.2](#)

RefSeq Size: 4392 bp

RefSeq ORF: 918 bp

Locus ID: 5828

UniProt ID: [P28328](#)

Cytogenetics: 8q21.13

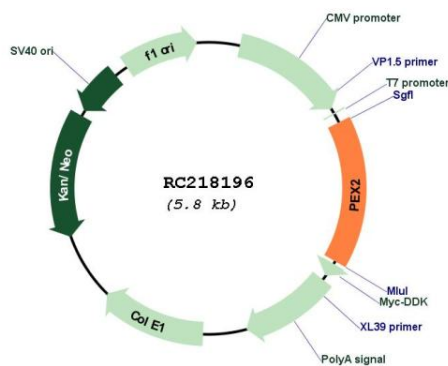
Domains: RING, Pex2_Pex12

Protein Families: Druggable Genome, Transmembrane

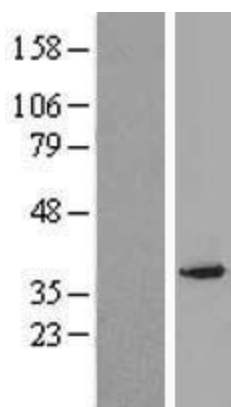
MW: 34.9 kDa

Gene Summary: This gene encodes an integral peroxisomal membrane protein required for peroxisome biogenesis. The protein is thought to be involved in peroxisomal matrix protein import. Mutations in this gene result in one form of Zellweger syndrome and infantile Refsum disease. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC218196



Western blot validation of overexpression lysate (Cat# [LY424799]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218196 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).