

Product datasheet for **RC202036**

PEX10 (NM_002617) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | PEX10 (NM_002617) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | PEX10 |
| Synonyms: | NALD; PBD6A; PBD6B; RNF69 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC202036 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCCGGCCGCCAGCCCCGGAGGTGATCCGCGCGGCGCAGAAGGACGAGTACTACCGGGT
GGCTGCGGAGCGCGGGCGGCCCTGCACAGCCTGGCGGTGCGAGGAAGTGGCTGGAGTGGAGGAA
GGAGGTTGAGCTGCTCTCAGATGTGGCCTACTTTGGCCTCACCACACTTGCAGGCTACCAGACCCTGGG
GAGGAGTACGTCAGCATCATCCAGGTGGACCCATCGCGGATACATGTGCCCTCCTCGCTGCGCCGTGGC
TGCTGGTGACACTGCATGCCGTCTGCCCTACCTGCTGGACAAGGCCCTGCTCCCCTGGAGCAGGAGCT
GCAGGCTGACCCGACAGTGGGGACCCCTGCAGGGGAGCCTGGGGCCAGGTGGGCGTGGCTGCTCAGGG
GCGCGGCGCTGGATGCGTCACCACACGGCCACCCTGACTGAGCAGCAGAGGAGGGCGCTGCTGCGGGCGG
TCTTCGTCCTCAGACAGGGCCTCGCCTGCCCTCCAGCGGCTACATGTTGCCTGGTTTTACATCCACGGTGT
CTTCTACCACCTGGCCAAGAGGCTCACGGGGATCACGTACCTCCGTGCCGAGCCTGCCCGGAGAGGAC
CTGAGGGCCCGTGTAGCTACAGGCTGCTGGGGTTCATCTCACTGCTGCACCTGGTGTGTCATGGGGC
TGCAGTGTACGGTTTCAGGCAGCGCAGCGAGCCAGGAAGGAGTGGAGGCTGCACCGCGGCTGTCTCA
CCGAGGGCCTCCTTGGAGGAGAGAGCCGTTTCCAGAAACCCCTGTGCACCTGTGCCTGGAGGAGCGC
AGGCACCAACAGCCACGCCCTCGGCCACCTGTTCTGCTGGGAGTGCATCACCGCGTGGTGCAGCAGCA
AGCGGGAGTGTCCCTCTGCCGGGAGAAGTTCCTCCCCAGAAGTCTACCTTCGGCACTACCGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202036 protein sequence
 Red=Cloning site Green=Tags(s)

MAPAAASPPEVIRAAQKDEYYRGGRLSAAGGALHSLAGARKWLEWRKEVELLSDVAYFGLTTLAGYQTLG
 EEEYVSIIQVDPRIHVPSSLRGVLVTLHAVLPYLLDKALLPLEQELQADPDSGRPLQGS LGP GGRGCSG
 ARRWMRHHTATL TEQRRALLRAVFVLRQGLACLQLRHVAFYIHGVFYHLAKRLTGITYLRVRS LPGAED
 LRARVSYRLLGVISLLHLVLSMGLQLYGFQRQRARKEWRLHRGLSHRRASLEERAVSRNPLCTLCL EER
 RHPTATPCGHLFCWECITAWCSSKAECPLCREKFPQKLIYLRHYR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6304_d10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002617

ORF Size: 978 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_002617.4](#)

RefSeq Size: 2034 bp

RefSeq ORF: 981 bp

Locus ID: 5192

UniProt ID: [O60683](#)

Cytogenetics: 1p36.32

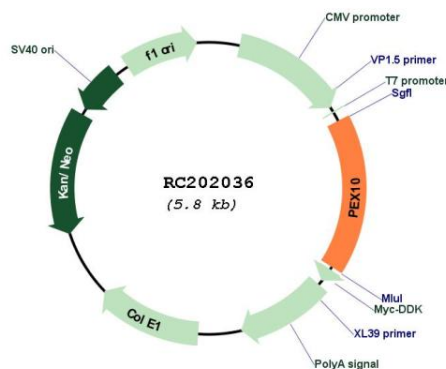
Domains: RING, Pex2_Pex12

Protein Families: Druggable Genome, Transmembrane

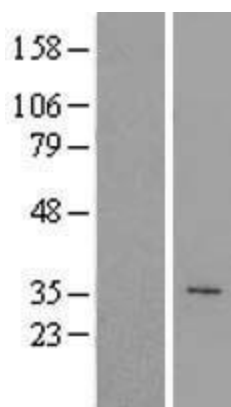
MW: 37.1 kDa

Gene Summary: This gene encodes a protein involved in import of peroxisomal matrix proteins. This protein localizes to the peroxisomal membrane. Mutations in this gene result in phenotypes within the Zellweger spectrum of peroxisomal biogenesis disorders, ranging from neonatal adrenoleukodystrophy to Zellweger syndrome. Alternative splicing results in two transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC202036



Western blot validation of overexpression lysate (Cat# [LY419217]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202036 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).