

Product datasheet for RC202903

PEX14 (NM_004565) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PEX14 (NM_004565) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PEX14
Synonyms: dj734G22.2; NAPP2; PBD13A; Pex14p
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC202903 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGTCCTCGGAGCAGGCAGAGCAGCCAGCCAGCCAAGCTCTACTCCAGGAAGTGAAAATGTGCTGC
 CTCGAGAGCCGCTGATTGCCACGGCAGTGAAGTTTCTACAGAATCCCGGGTCCGCCAGAGCCCCTTGC
 AACCGAGAGCATTCTAAAGAAGAAAGGGCTGACAGATGAAGAGATTGATATGGCCTCCAGCAGTCG
 GGCCTGCTGCCGATGAGCCTTCGTCTTGGGCCAGCCACACAGGTGGTTCCTGTCCAGCCCCCTCACC
 TCATATCTCAGCCATACAGTCCCGCAGGCTCCCGATGGCGAGATTACGGCGCCCTGGCCATCATATGGC
 AGGCATTGCATTTGGCTTTCACCAGCTCTACAAGAAATACCTGCTCCCCCTCATCCTGGCGGCCGAGAG
 GACAGAAAGCAGCTGGAGAGGATGGAGGCCGGTCTCTCTGAGCTGAGTGGCAGCGTGGCCAGACAGTGA
 CTCAGTTACAGACGACCCTCGCCTCCGTCCAGGAGCTGTGATTACAGCAGCAGCAGAAGATCCAGGAGCT
 TGCCCACGAGCTGGCCGCTGCCAAGGCCACCACATCCACCAACTGGATCCTGGAGTCCCAGAATATCAAC
 GAACTCAAGTCCGAAATTAACCTCTTGAAGGGCTTCTTTAAATCGGAGGCAGTTCCTCCATCCCCAT
 CAGCCCCGAAGATCCCCTCCTGGCAGATCCCAGTCAAGTACCCTCACCCTCCAGCCCTGCGGCCGTGAA
 CCACCACAGCAGCAGCGACATCTCACCTGTCAGCAACGAGTCCACGTCTCCTCGCCTGGGAAGGAGGGC
 CACAGCCCCGAGGGCTCCACGGTACCTACCCTTGTGGGCCCCAGGAGGAAGGCCAGGGGGTGGTGG
 ACGTCAAGGGCCAGGTGCGGATGGAGGTGCAAGGCGAGGAGGAGAAGAGGGAGGACAAGGAGGACGAGGA
 GGATGAGGAGGATGATGATGTGAGCCATGTGGACGAGGAGGACTGCCTGGGGGTGACAGGGAGGACCGC
 CGGGGCGGGGATGGGAGATCAACGAGCAGGTGGAGAAGCTGCGCGGCCCGAGGGGCCAGCAACGAGA
 GTGAGCGGGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202903 protein sequence
Red=Cloning site Green=Tags(s)

MASSEQAEPSPQPSSTPGSENVLPREPLIATAVKFLQNSRVRQSPLATRR AFLKKKGLTDEEIDMAFQQS
 GTAADPESSLGPATQVVPVQPPHLISQPYSPAGSRWRDYGALAIIMAGIAFGFHQLYKYLPLILGGRE
 DRKQLERMEAGLSELSGVAQTVTQLQTTLASVQELLIQQQKIQELAHELAAAKATTSTNWILESQNIN
 ELKSEINSLKGLLLNRRQFPPSPSAPKIPSWQIPVKSPSPSSPAAVNHSSSDISPVSNESTSSSPGKEG
 HSPEGSTVYHLLGPQEEGEGVVDVKGQVRMEVQGEEEKREDEDEEEDDDVSHVDEEDCLGVQREDR
 RGGDQINEQVEKLRPEGASNESERD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6411_d07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_004565

ORF Size: 1131 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_004565.3](#)

RefSeq Size: 1945 bp

RefSeq ORF: 1134 bp

Locus ID: 5195

UniProt ID: [O75381](#)

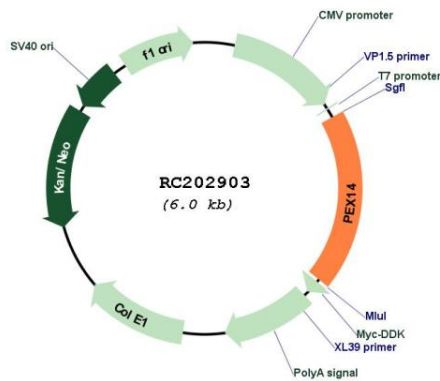
Cytogenetics: 1p36.22

Protein Families: Druggable Genome

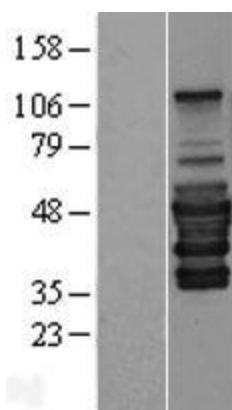
MW: 41.2 kDa

Gene Summary: This gene encodes an essential component of the peroxisomal import machinery. The protein is integrated into peroxisome membranes with its C-terminus exposed to the cytosol, and interacts with the cytosolic receptor for proteins containing a PTS1 peroxisomal targeting signal. The protein also functions as a transcriptional corepressor and interacts with a histone deacetylase. A mutation in this gene results in one form of Zellweger syndrome. [provided by RefSeq, Jul 2008]

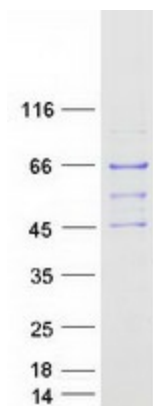
Product images:



Circular map for RC202903



Western blot validation of overexpression lysate (Cat# [LY417901]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202903 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PEX14 protein (Cat# [TP302903]). The protein was produced from HEK293T cells transfected with PEX14 cDNA clone (Cat# RC202903) using MegaTran 2.0 (Cat# [TT210002]).