

Product datasheet for **RG202903**

PEX14 (NM_004565) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PEX14 (NM_004565) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PEX14
Synonyms: dj734G22.2; NAPP2; PBD13A; Pex14p
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG202903 representing NM_004565
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGTCCTCGGAGCAGGCAGAGCAGCCAGCCAGCCAAGCTCTACTCCAGGAAGTAAAAATGTGCTGC
 CTCGAGAGCCGCTGATTGCCACGGCAGTGAAGTTTCTACAGAATCCCGGGTCCGCCAGAGCCCACTTGC
 AACCCAGGAGAGCATTCTAAAGAAGAAAGGGCTGACAGATGAAGAGATTGATATGGCCTCCAGCAGTCG
 GGCCTGCTGCCGATGAGCCTTCGTCTTGGGCCAGCCACACAGGTGGTTCTGTCCAGCCCCCTCACC
 TCATATCTCAGCCATACAGTCCCGCAGGCTCCCGATGGCGAGATTACGGCGCCCTGGCCATCATATGGC
 AGGCATTGCAATTTGGCTTTCACCCAGCTCTACAAGAAATACCTGCTCCCCCTCATCCTGGGCGCCGAGAG
 GACAGAAAGCAGCTGGAGAGGATGGAGGCCGGTCTCTCTGAGCTGAGTGGCAGCGTGGCCAGACAGTGA
 CTCAGTTACAGACGACCCTCGCCTCCGTCCAGGAGCTGCTGATTACAGCAGCAGCAGAAGATCCAGGAGCT
 TGCCCACGAGCTGGCCGCTGCCAAGGCCACCACATCCACCAACTGGATCCTGGAGTCCCAGAATATCAAC
 GAACTCAAGTCCGAAATTAACCTCTTGAAGGGCTTCTTTAAATCGGAGGCAGTTCCTCCATCCCCAT
 CAGCCCCGAAGATCCCCTCCTGGCAGATCCCAGTCAAGTACCCGTACCCTCCAGCCCTGCGGCCGTGAA
 CCACCACAGCAGCAGCGACATCTCACCTGTCAGCAACGAGTCCACGTCTCCTCGCCTGGGAAGGAGGGC
 CACAGCCCCGAGGGCTCCACGGTACCCTGCTGGGCCCCAGGAGGAAGGCCAGGGGGTGGTGG
 ACGTCAAGGGCCAGGTGCGGATGGAGGTGCAAGGCGAGGAGGAGAAGAGGGAGGACAAGGAGGACGAGGA
 GGATGAGGAGGATGATGATGTGAGCCATGTGGACGAGGAGGACTGCCTGGGGGTGACAGGGAGGACCCG
 CGGGGCGGGGATGGGAGATCAACGAGCAGGTGGAGAAGCTGCGGCGCCGAGGGGCCAGCAACGAGA
 GTGAGCGGGAC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG202903 representing NM_004565
 Red=Cloning site Green=Tags(s)

MASSEQAEQPSQPSSTPGSENVLPREPLIATAVKFLQNSRVRQSPLATRR AFLKKKGLTDEEIDMAFQQS
 GTAADPESSLGPATQVVPVQPPHLISQPYSPAGSRWRDYGALAIIMAGIAFGFHQLYKKYLLPLILGGRE
 DRKQLERMEAGLSELSGSVAQTVTQLQTTLASVQELLIQQQKIQIQLAHELAAAKATTSTNWILESQININ
 ELKSEINSLKGLLLNRRQFPPSPSAPKIPSWQIPVKSPSPSSPAAVNHSSSDISPVSNESTSSSPGKEG
 HSPEGSTVYHLLGPQEEGEGVVDVKGQVRMEVQGEEEKREDEEEDDDVSHVDEEDCLGVQREDR
 RGGDQINEQVEKLRPEGASNESERD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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: 1908 bp

RefSeq ORF: 1134 bp

Locus ID: 5195

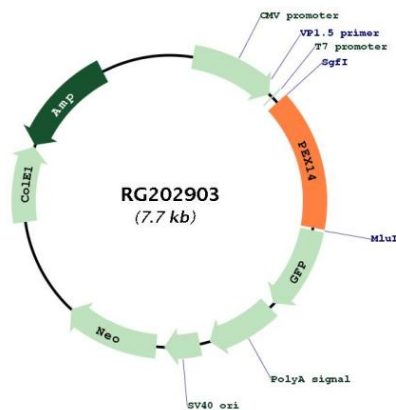
UniProt ID: [O75381](#)

Cytogenetics: 1p36.22

Protein Families: Druggable Genome

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 RG202903