

Product datasheet for MR204996

Pex16 (NM_145122) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pex16 (NM_145122) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pex16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204996 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGAAGCTACGGCTCCTGAGCCTCCGCTACCAGGAGTATGTGACTCGTCATCCAGCCGCCACGGCCC
AGTTGGAGACGGCTGTGCGGGCCCTCAGTTACCTGCTGGCAGGTCGCTTCTCCGATTACACAGAGCTGTC
TGAAGTGGTGTACTCTGCCTCGAACCTGCTGGTGTGCTCAATGACGGGATCCTGAGGAAGGAGCTTCGA
AAAAAGTTGCCTGTGCTGCTGCCAGCAGAAGTTGCTGACATGGCTGAGTGTACTGGAGTGTGTGGAGG
TGTTTCATGGAGATGGGGCTGCCAAGGTGTGGGCGAAGTAGGCCGTTGGCTCGTCATTGCTCTCATCCA
GTTGGCCAAGGCCGTCCTGCGCATGCTCCTGCTGATCTGGTTCAAGGCTGGCATTACAGACGTCACCCCC
ATTGTTCCACTGGACAGGAACTCAGGCACAGCCCTTGGATGGTGACCAATCCGGGCAGCCAGGAGC
CATCATATGTGGGAAACGGTCACACAGAGTGGTGCAACCCCTCCAGAACAGCCCATCCCTGCACTCACG
GTACTGGGAGCCCTCAGCAGCGGAAATTCGGCAGAAACAGCAGCAGGAGGAAGTACACACACCCCCA
ACACCTCTGGGGTTCAGGAGACCATTGCAGAGTCTTTGTACATCGCCCGGCCCTGCTGCACTTGTCTCA
GCCTGGGCTTATGGGTCAGCGATCGTGGACACCCTGGCTACTGTCTGGTGTGGTAGATATGACTAGCCT
GAGTCTCCTGAGTGACAGGAAGAACTTGACCCAGAGGGAGCGGCTAGAAGTACGAGGCGTCGCACAATCCTG
CTGCTATACTACCTGCTACGCTACCGTCTATGACCGCTTCTCTGAAGCCAAGATCCTCTTCTCTGCTCC
AGCTGCTTACAGACCACATCCCTGGCGTGGGTCTGGTGGCAAGGCCGCTCATGGACTACTTGCCTCCTG
GCAGAAAATCTATTTCTACAGTTGGGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204996 protein sequence
 Red=Cloning site Green=Tags(s)

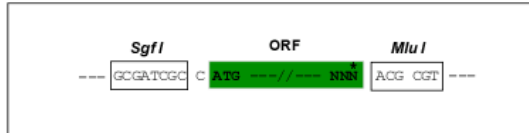
```
MEKLRLLSLRYQEYVTRHPAATAQLETAVRGLSYLLAGRFSDSHELSELVYSASNLLVLLNDGILRKELR
KKLPVLSLQQKLLTWLSVLECEVFMEMGAAKVWGEVGRWLVIALLIQLAKAVLRMLLLIWFKAGIQTSPP
IVPLDRETQAQPLDGDHNPQSQEPSYVGKRSHRVVRTLQNSPSLSHSRYWGAPQQREIRQKQQEELSTPP
TPLGLQETIAESLYIARPLLHLLSLGLWGQRSWTPWLLSGVVDMTSLSLLSDRKNLTRERLELRRRTIIL
LLYYLLRSPFYDRFSEAKILFLLQLLTDHIPGVGLVARPLMDYLPWQKIYFYSWG
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_145122

ORF Size: 1008 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_145122.1](#), [NP_660104.1](#)

RefSeq Size: 1470 bp

RefSeq ORF: 1011 bp

Locus ID: 18633

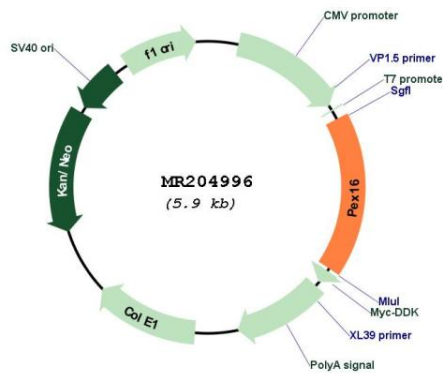
UniProt ID: [Q91XC9](#)

Cytogenetics: 2 E1

MW: 38.6 kDa

Gene Summary: Required for peroxisome membrane biogenesis. May play a role in early stages of peroxisome assembly. Can recruit other peroxisomal proteins, such as PEX3 and PMP34, to de novo peroxisomes derived from the endoplasmic reticulum (ER). May function as receptor for PEX3 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204996