

Product datasheet for MR204168

Pex19 (NM_023041) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pex19 (NM_023041) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pex19
Synonyms:	Pxf
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204168 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCTGCTGAGGAAGGTTGCGGTGTTGGGGTCGAAGACGACCGGAACTGGAGGAGCTTCTGGAAA
GTGCTCTTGATGATTTGACAAAAGCCAAACCTCCCCAGAACATGCTCCGACCATCTCGGCTCCCGACGC
TTCAGGACCCAGAAGAGAGCGCCAGGAGATACTGCCAAAGATGCTCTCTTCGCCTCCAAGAGAAATTT
TTCCAGGAAGTGTGGACAGTGGCTTCCCAAGCTACTGCGGAGTTTGAGAAGGCAATGAAGGAGC
TGGCTGAGGAAGAGCCCCATCTGGTGGAGCAGTCCAGAAGCTCTCAGAGGCAGCTGGGAGAGTGGGCAG
CGATGCAAGTTCTCAGCAAGAGTTTACTTCTTGCCCTAAAGGAGACGTTAAGTGGCCTGGCCAAAAACGCC
ACTGAGCTGCAGAACTCGGGCATGTCTGAAGAGGAGCTGATGAAAGCCATGGAAGGGCTGGGCATGGATG
AGGGGGATGGGAAGCGAGCATTCTCCCATCATGCAGAGCATATGCAGAACCTCCTGTCTAAGGATGT
GCTGTACCCATCCCTGAAGGAGATCACAGAAAAGTATCCAGAAATGGCTCCAGAGTACCAGGACTCCACT
CCTCCCGAGCAGTTTGAGAAGTACCAGCAGCAGCACAGCGTCATGGTCAAATCTGTGAGCAGTTTGAGG
CCGAGACGCCACAGACAGCGAGGCTACTCAGAGGGCTCGCTTTGAGGCCATGCTAGATCTCATGCAGCA
GTTACAGGCCTTGGGCCATCTCCAAAAGAGCTGGCTGGGAGATGCCTCCTGGCCTCAACTTTGACCTG
GATGCTCTCAATCTGTGGGCCCCCGAGGTGCTAATGGCGAACAGTGTCTGATCATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204168 protein sequence
Red=Cloning site Green=Tags(s)

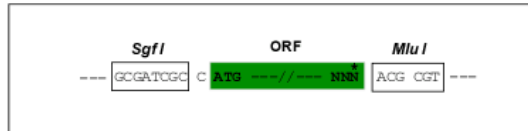
```
MAAAEEGCGVGVEDDRELEELLESALDDDFDKAKPSPEHAPTISAPDASGPQKRAPGDTAKDALFASQEKF
FQELFDSELASQATAEFEKAMKELAEPPHLVEQFQKLSEAAGRVGSDASSQQEFTSCLKETLSGLAKNA
TELQNSGMSEELMKAMEGLGMDEGDGEASILPIMQSIMQNLKSKDVL YPSLKEITEKYPEWLQSHQDST
PPEQFEKYQQQHSVMVKICEQFEAETPTDSEATQRARFEAML DLMQQLQALGHPPKELAGEMPPGLNFDL
DALNLSGPPGANGEQCLIM
```

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_023041

ORF Size: 900 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_023041.3](#)

RefSeq Size: 3131 bp

RefSeq ORF: 900 bp

Locus ID: 19298

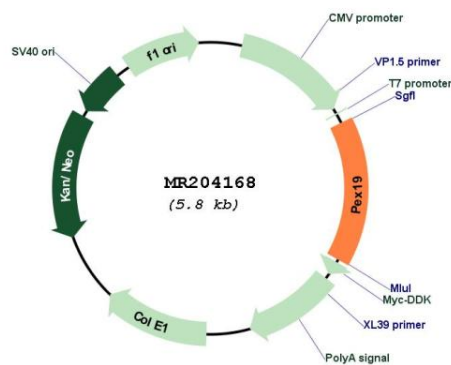
UniProt ID: [Q8VCI5](#)

Cytogenetics: 1 79.54 cM

MW: 32.7 kDa

Gene Summary: Necessary for early peroxisomal biogenesis. Acts both as a cytosolic chaperone and as an import receptor for peroxisomal membrane proteins (PMPs). Binds and stabilizes newly synthesized PMPs in the cytoplasm by interacting with their hydrophobic membrane-spanning domains, and targets them to the peroxisome membrane by binding to the integral membrane protein PEX3. Excludes CDKN2A from the nucleus and prevents its interaction with MDM2, which results in active degradation of TP53.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204168