

Product datasheet for **MG204168**

Pex19 (NM_023041) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pex19 (NM_023041) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pex19
Synonyms:	Pxf
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204168 representing NM_023041 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCTGCTGAGGAAGGTTGCGGTGTTGGGGTCGAAGACGACCGGAACTGGAGGAGCTTCTGGAAA
GTGCTCTTGATGATTTTCGACAAAGCCAAACCTCCCCAGAACATGCTCCGACCATCTCGGCTCCCGACGC
TTCAGGACCCAGAAAGAGAGCGCCAGGAGATACTGCCAAAGATGCTCTCTTCGCCTCCAAGAGAAATTT
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TGGCTGAGGAAGAGCCCCATCTGGTGGAGCAGTCCAGAAGCTCTCAGAGGCAGCTGGGAGAGTGGGCAG
CGATGCAAGTTCTCAGCAAGAGTTTACTTCTTGCCTAAAGGAGACGTTAAGTGGCCTGGCCAAAAACGCC
ACTGAGCTGCAGAACTCGGGCATGTCTGAAGAGGAGCTGATGAAAGCCATGGAAGGGCTGGGCATGGATG
AGGGGGATGGGAAGCGAGCATTCTCCCATCATGCAGAGCATATGCAGAACCTCCTGTCTAAGGATGT
GCTGTACCCATCCCTGAAGGAGATCACAGAAAAGTATCCAGAAATGGCTCCAGAGTACCAGGACTCCACT
CCTCCCGAGCAGTTTGAGAAGTACCAGCAGCAGCACAGCGTCATGGTCAAATCTGTGAGCAGTTTGAGG
CCGAGACGCCACAGACAGCGAGGCTACTCAGAGGGCTCGCTTGGAGCCATGCTAGATCTCATGCAGCA
GTTACAGGCCTTGGGCCATCTCCAAAAGAGCTGGCTGGGAGATGCCTCCTGGCCTCAACTTTGACCTG
GATGCTCAATCTGTGGGCCCCAGGTGCTAATGGCGAACAGTGTCTGATCATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204168 representing NM_023041
 Red=Cloning site Green=Tags(s)

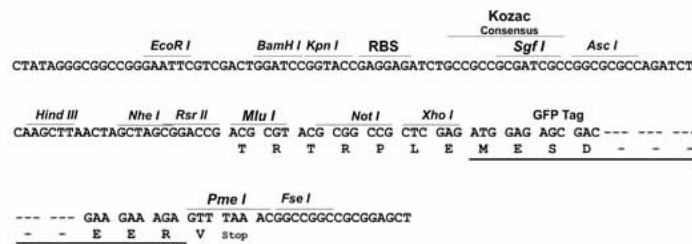
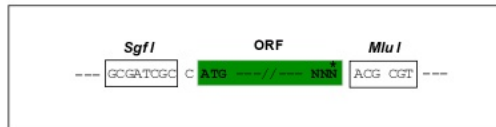
MAAAEEGCGVGVEDDRELEELLESALDDFDKAKPSPEHAPTISAPDASGPQKRAPGDTAKDALFASQEKF
 FQELFDSELASQATAEFEKAMKELAEPEPHLVEQFKLSEAAGRVDSDASSQEF TSCLKETLSGLAKNA
 TELQNSGMSEELMKAMEGLGMDEGDGEASILPIMQSIMQNLLSKDVL YPSLKEITEKYPEWLQSHQDST
 PPEQFEKYQQQHSVMVKICEQFEAETPTDSEATQRARFEAML DLMQQLQALGHPPKELAGEMPPGLNFDL
 DALNLSGPPGANGEQCLIM

TRTRPLE - GFP Tag - V

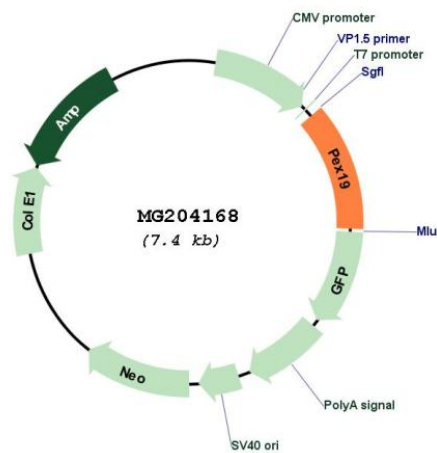
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_023041

ORF Size: 897 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:	<ol style="list-style-type: none">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:	2397 bp
RefSeq ORF:	900 bp
Locus ID:	19298
UniProt ID:	Q8VCI5
Cytogenetics:	1 79.54 cM
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]