

## Product datasheet for **MG225154**

### Pex19 (NM\_001159525) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pex19 (NM\_001159525) 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:** >MG225154 representing NM\_001159525  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGGCTGCTGAGGAAGGTTGCGGTGTTGGGTGCGAAGACGACCGGAACTGGAGGAGCTTCTGGAAA  
 GCAGCGATGCAAGTTCTCAGCAAGAGTTTACTTCTTGCCTAAAGGAGACGTTAAGTGGCCTGGCCAAAAA  
 CGCCACTGAGCTGCAGAACTCGGCATGTCTGAAGAGGAGCTGATGAAAGCCATGGAAGGGCTGGGCATG  
 GATGAGGGGATGGGAAGCGAGCATTCTCCCATCATGCAGAGCATCATGCAGAACCTCCTGTCTAAGG  
 ATGTGCTGTACCCATCCCTGAAGGAGATCACAGAAAAGTATCCAGAATGGCTCCAGAGTACCAGGACTC  
 CACTCCTCCCAGCAGTTTGAAGTACCAGCAGCAGCAGCGTCATGGTCAAAATCTGTGAGCAGTTT  
 GAGGCCGAGACGCCACAGACAGCGAGGCTACTCAGAGGGCTCGCTTTGAGGCCATGCTAGATCTCATGC  
 AGCAGTTACAGGCCTTGGGCCATCCTCCAAAAGAGCTGGCTGGGGAGATGCCTCCTGGCCTCAACTTTGA  
 CCTGGATGCTCTCAATCTGTCGGGCCCCAGGTGCTAATGGCGAACAGTGTCTGATCATG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >MG225154 representing NM\_001159525  
 Red=Cloning site Green=Tags(s)

MAAAEEGCGVGEDDRELEELLESSDASSQQEFTSCLKETLSGLAKNATELQNSGMSEELMKAMEGLGM  
 DEGDGEASILPIMQSIMQNLLSKDVL YPSLKEITEKYPEWLQSHQDSTPPEQFEKYQQQHSVMVKICEQF  
 EAETPTDSEATQRARFEAMLDMQQLQALGHPPKELAGEMPPGLNFDLDALNLSGPPGANGEQCLIM

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

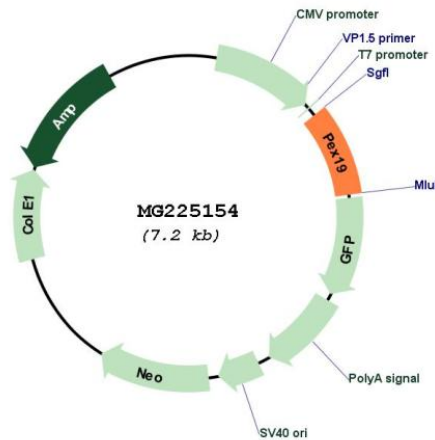


[View online »](#)

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001159525

ORF Size: 621 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\\_001159525.1](#), [NP\\_001152997.1](#)

**RefSeq Size:** 2855 bp

**RefSeq ORF:** 624 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]