

## Product datasheet for MR225112

### Pex2 (NM\_001163305) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pex2 (NM\_001163305) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Pex2  
**Synonyms:** D3Erted138e; PAF-1; PMP35; Pxmp3  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR225112 representing NM\_001163305  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGACTGGCAAAGAAGAGAATAATGCAGAGTGCAAACAGAGTGCTGAGGATAAGTCAGTTGGATGCACTTG  
 AACTGAATAAGGCCCTGGAGCAGCTTGTGTGGTCCCAGTTACTCAGTGCCTTCATGGATTTAAGCCAGG  
 ACTGTTAGCTCGCTTTGAGCCAGAAGTAAAGCATTCTGTGGCTTTTCTATGGAGTTACCATCTAC  
 TCCAAAAATGCCACTGTGGGCAGTCAGTTTTAAATATTCAGTACAAAAATGATTCTTCTCTCAACCTGA  
 TATACCAGCCACCGAGTAAACTCAGAACTGTGGTATGCTGTGTGCACCATTGGGGAAAGTGGTTAGA  
 AGAACGATGTTATGATTTGTTTCGAAACCGTCATTTAGCGTCTTTTGGGAAAGCCAAACAGTTCATGAAT  
 TTTCTGGTTGGACTTTTAAATAGGTGAGTTGATAAACTTCTTGATTTTCTACAAAAGGAAAGTTTG  
 CACTTTGACAGAACGCCTCCTTGGCATTATTCCGATATTTGCAAGCCCAGAACATGCGCGAAGTTGG  
 CTTTGAGTACATGAATAGGGAATCTCTGGCATGGCTTTGCTGAGTTTCTGATTTTCTCTTACCCTT  
 ATCAATATCCAGAAGTTGAAAGCCAAATGTCTTCTGGTGTATCCCTCTACTGGTGTCTGCTGATG  
 ACAGTACACTAGGCAGCAGTGGAAAAGAGTGTGCTCTGTGTGGAGAGTGGCCACAATGCCTCACACTAT  
 TGGATGTGAACATGTATTTTGTACTACTGTGTTAAGAGTAGCTTCTATTTGACATATACTTTACGTGC  
 CCGAAGTGTGGCACAGAAGTGCACAGTGTGCAGCCCTTGAATCAGGAATTGAAATGTGAGAAGTAAATG  
 CTCTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR225112 representing NM\_001163305  
Red=Cloning site Green=Tags(s)

MTGKEENMQSANRVLRIQLDALELNKALEQLVWSQFTQCFHGFKPGLLARFEPEVKAFLWFLWRFTIY  
 SKNATVQGSVLNIQYKNDSSLNIYQPPSKTQKLWYAVCTIGGKWEERCYDLFRNRHLASFGKAKQFMN  
 FLVGLLKL GELINFLIFLQKGFATLTERLLGIHSVFCQPQNMREVGFEYMNRELLWHGFAEFLIFLLPL  
 INIQKLKAKLSSWCIPLTGAAGHDSTLGSSGKECALCGEWPTMPHTIGCEHVFCYVCVKSSFLFDIYFTC  
 PKCGTEVHSVQPLKSGIEMSEVNAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9023\\_e11.zip](https://cdn.origene.com/chromatograms/mm9023_e11.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001163305

**ORF Size:** 915 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\\_001163305.2](#), [NP\\_001156777.1](#)

**RefSeq Size:** 2149 bp

**RefSeq ORF:** 918 bp

**Locus ID:** 19302

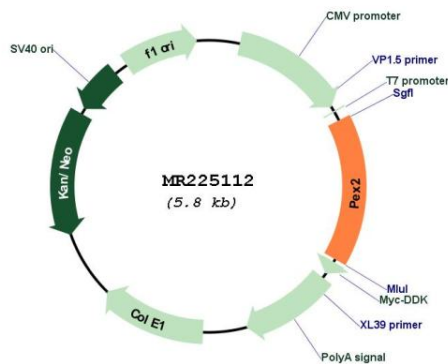
**UniProt ID:** [P55098](#)

**Cytogenetics:** 3 1.96 cM

**MW:** 35.4 kDa

**Gene Summary:** Somewhat implicated in the biogenesis of peroxisomes.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR225112