

## Product datasheet for MR225104

### Pex2 (NM\_008994) Mouse Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Pex2 (NM_008994) 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:  | >MR225104 representing NM_008994<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACTGGCAAAGAAGAGAATAATGCAGAGTGCAACAGAGTGCTGAGGATAAGTCAGTTGGATGCACTTG  
AACTGAATAAGGCCCTGGAGCAGCTTGTGTGGTCCAGTTTACTCAGTGCCTTCATGGATTTAAGCCAGG  
ACTGTTAGCTCGCTTTGAGCCAGAAGTAAAGCATTTCTGTGGCTTTTCTATGGAGTTACCATCTAC  
TCCAAAAATGCCACTGTGGGCAGTCAGTTTTAAATATTCAGTACAAAAATGATTCTTCTCTCAACCTGA  
TATACCAGCCACCGAGTAAACTCAGAACTGTGGTATGCTGTGTGCACCATTGGGGAAAGTGGTTAGA  
AGAACGATGTTATGATTTGTTTCGAAACCGTCATTTAGCGTCTTTTGGGAAAGCCAAACAGTTCATGAAT  
TTTCTGGTTGGACTTTTAAATAGGTGAGTTGATAAACTTCTTGATTTTCTACAAAAGGAAAGTTTG  
CACTTTGACAGAACGCCTCCTTGGCATTATTCCGATATTTGCAAGCCCAGAACATGCGCGAAGTTGG  
CTTTGAGTACATGAATAGGGAATCTCTGGCATGGCTTGTGTGAGTTTCTGATTTTCTCTTACCCTT  
ATCAATATCCAGAAGTTGAAAGCCAAATGTCTTCTGGTGTATCCCTCTTACTGGTGTCTGGTCATG  
ACAGTACACTAGGCAGCAGTGGAAAAGAGTGTCTGTGTGGAGAGTGGCCACAATGCCTCACACTAT  
TGGATGTGAACATGTATTTGTTACTACTGTGTTAAGAGTAGCTTCTATTTGACATATACTTTACGTGC  
CGAAGTGTGGCAGAGAAGTGCACAGTGTGCAGCCCTTGAATCAGGAATTGAAATGTCAGAAGTAAATG  
CTCTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR225104 representing NM\_008994  
Red=Cloning site Green=Tags(s)

MTGKEENMQSANRVLRIQLDALELNKALEQLVWSQFTQCFHGFKPGLLARFEPEVKAFLLWFLWRFTIY  
 SKNATVQGSVLNIQYKNDSSLNIYQPPSKTQKLWYAVCTIGGKWEERCYDLFRNRHLASFGKAKQFMN  
 FLVGLLKL GELINFLIFLQKGFATLTERLLGIHSVFCQPQNMREVGFEYMNRELLWHGFAEFLIFLLPL  
 INIQKLKAKLSSWCIPLTGAAGHDSTLGSSGKECALCGEWPTMPHTIGCEHVFCYCVKSSFLFDIYFTC  
 PKCGTEVHSVQPLKSGIEMSEVNAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9030\\_e09.zip](https://cdn.origene.com/chromatograms/mm9030_e09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_008994

**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\\_008994.4](#), [NP\\_033020.2](#)

**RefSeq Size:** 2213 bp

**RefSeq ORF:** 918 bp

**Locus ID:** 19302

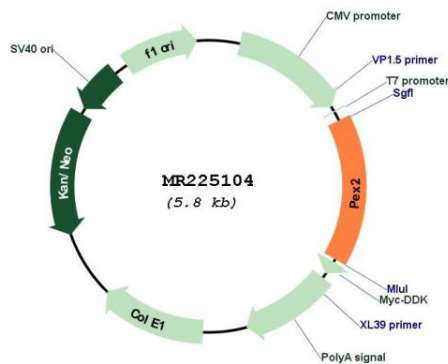
**UniProt ID:** [P55098](#)

**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 MR225104