

## Product datasheet for **MC229542**

### Pex1 (NM\_001293806) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pex1 (NM\_001293806) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Pex1  
**Synonyms:** 5430414H02Rik; E330005K07Rik; ZWS1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC229542 representing NM\_001293806  
 Red=Cloning site Blue=ORF Orange=Stop codon

CTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCC**GGCGC**  
**GCCC**

ATGTGGAGCAGCGATCGCTTAGCGGGTGC GGCTCTGGTGGGGCGGTCGTGACGGTGGCCTTCACGAATG  
 CTCGGGACTGCTTCTGCATCTGCCGGCGCCTCGTGGCCAGCTTACCTGCTGCAGAATCAAGCTAT  
 AGAAGTGGCCAGCGATCACCAGCCTACCTACCTGAGCTGGTGGAAAGGCAGGCATTTTAATGATCAAAGT  
 GAAAATGTGGCAGAAATTAATAGACAAGTTGGCCAGAACTTGGACTCTCAAGCGGAGATCAGGTGTTTC  
 TCAGGCCTTGTTCCCATGTGGTATCTTGCCAACAGGTTGAAGTGGAGCCTCTCTCAGCAGATGACTGGGA  
 AATACTGGAGCTGCACGCCATTTCCCTTGAACAGCATCTTCTGGATCAGATTCAATAGTTTTCCCAAA  
 GCTGTTGTTCCCATCTGGGTTGACCAGCAGACCTACATATTTATCCAGATCGTCACTCTGATGCCAGCTG  
 CCCCTTATGGAAGGCTAGAACTAACACCAAACCTTATTTCAGCCAAAGACACGCCAAGCCAAAGAGAG  
 CACATTTCCAAAAGAAGGAGATGCACACGGACAAGTTCATAGTTATGGGCGAGAACAGAAAGGATTGTCA  
 AAGGAATTACAAACCAGGCAGCTTACATCAAGTCCAGAGGATCACTGCATCCAATGGAAGAGACCCAA  
 AAGTCCCAGGTGGCCCGTTGAAGCCAAGTGGTGGCTGTGCTCGGAAGCATGCTTTCCTTTGGGCTGA  
 CAGTAAACAGGAGTCAGCCTGGGCTCGTTGAACTCGGTGCTTTCAAAAACATGCAGTCACAGGCTGCC  
 CCTCTGGAAGTACTTTTCAGAGTATGCCAAGTCCAGCCACCTAGTGCGCGTACCACCACCCTACCTCTG  
 TGTTTCACAAACTGCACCGCCACGTATTTCTTGGGACCAAGAATACTTTGATGTGGAGCCAGCTT  
 TACTGTGACCTATGAAAACTAGTTAAGCTACATTCTCCAAAACAACAGCAAGACAAAAGTAAGCAGGGT  
 GTCCTGTTGCCTGACAAAGAGAAGCAGCTGTCCAAGTCTCCAGATCATAAGCAGATCAGCTCCAACCGCA  
 GTGAGGAGGCTGCTGAGGCTGTGTGCTGAAGGTAGTCTGGAATGGACTCGAGGAGTTGAAGAATGCCAC  
 AGAGTTCACCGAAAGTCTAGAGCTTCTCCACCGTGGGAAAGTCTGGATTCCAGATGACCTGAGAAAGAGA  
 CTAATATAGAAATGCATGCAGTAGTCAAGTAACTCCACTGGAACCACGCCTAAAATCCCAAGATCTC  
 TGAATTAACAACCTAGAGAGAACTTACCTAAAGACGTCATGAAGAACTATAAAAACAGTGTCTCATC  
 TTGGGTACAGCAGTCCGCTACCACGATGCTTCTTTGGTAAATATCAAAGGAAGAGCGTATTAAGCTGGAA  
 ATTAAGATGGGCTGAGAGAGTTCTCTCTGAGTACAGTTCATTCTCAGAAAAAGAAAAGGAAGAAGGAA



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AAACTGTGTTTGTGTTGAGTTCCATCCTGCTGCAGAAGATCTCAGTACAAGTCCTTCTAGAGCCCATGAT  
 AAAAGAAGAACAGAGTGCAGAAATCGACTTTCTTCCCTCTTTAACGCTGAGCTCTTTGGGGGAGTG  
 AGTGCCTTAGGTGCATCTGCAATGGAGCACATCACTCACAGTCTCCTGGGACGCCGTTGTCTAGGCAGC  
 TGATGGCCCTCGTTGCAGGACTTAGGAATGGCGCTCTTTTGATCACTGGAGGAAAGGGAAGCGGGAAGTC  
 AACATTCGCGAAAGCCATCTGCAAGGAAGCACAGGACACTCTGGATGCCCGTGTGGAGACAGTCTGACTGC  
 AAGGCTTACGAGGAAAAAGGCTTGAAGCATACAAAAAGCGCTAGAGGTGGCTTCTCAGAGGCCGCT  
 GGAGGCAGCCATCTGTCATTCTGCTGGATGACCTGGACCTCATTGCCGGACTGCCAAGTGTCCCCGAGCA  
 GGAGCACAGCCCTGAAGCGGTGCAGAGCCAGCGCTTGACATGCTTTGAACGATATGATCAAAGAGTTT  
 GTTCCACGGAAGCTTGGTGGCACTCATCGCCACGAGCCAGCTCCAGCAGTCTCTGCACCCCTCCCTTG  
 TGTCTGCTCAAGGAATCCACACGTTTCAATGTGTCCAGCACCTTCAGCCTCCCAATCCGGAACAGAGATG  
 TGAAATTCGACAGTGTGTGAAGAATAAACTGGGCTGTGATATAAGCAATTTCCCTGACTTGGACCTG  
 CAGTGCATAGCTAAAGACACAGAAGCGTTTGTGGCTCGTACTTACAGTTCTTGTGGACCGAGCCATAC  
 ACTCTTCTCTCTCGCCAGCATAGCTCCTCTAGGGAAGACTTGACTTTAACAACATCAGACTTCCAAAA  
 GGCTCTCCGTGGATTCTTCTGCTTCTCTGCGAAATGTCAACTGCATAAACCTAGAGACTGGGCTGG  
 GACAAGATTGGTGGATTACATGAAGTTCGGCAGATCCTCATGGATACTATCCAGTTACCAGCCAAGTACC  
 CAGAATATTTGCAAACCTACCCATACGACAGAGGACAGGAATACTGCTTTATGGTCTCCAGGGACAGG  
 AAAAACTTACTTGTGGGTAGTTGCAAGAGAGAGTGAATGAATTTTATTAGTATTAAGGACCAGAG  
 TTAAGTCAAGCAATATATTGGCGCAAGTGAAGCAAGCTGTTCCGAGATGTTTTTATCAGAGCACAGGCTGCAA  
 AGCCCTGCATTCTTTCTTTGATGAGTTTGTGAGTCCATCGCTCCTCGAAGAGGCCATGACAACACAGGGGT  
 TACAGACCGAGTGTCAACCAAGTGTGACACAGTTAGACGGAGTAGAAGGCTTACAGGGAGTTTATGTG  
 CTGGCTGCTACTAGTCGCCCTGACTTGTGACCCCTGCCCTGTTGCGGCCTGGCAGACTGGATAAATGTG  
 TATACTGCCCTCCTCCAGATCAGGTGTCCCGTCTTGAGATTTAACTGTCTCAGCAAGTCTCTAGCTCT  
 GGCAGATGACGTGGACCTTCAGCACGTGGCGTCCGTCACCGACTCGTTCCTGAGCGGATCTGAAAGCT  
 CTGCTGTACAACGCTCAGCTGGAGGCCTTGACAGGACGGCTGCTGCCAGTGGGCTTCCCGATGGAGGCT  
 CCAGCTCTGACAGTGACCTGAGTCTGTCTTCAATGGTCTTTCTTAACCACAGCAGTGGTCCGACGACTC  
 CGCTGGAGATGGAGAATGTGGCTTAGAGCAATCCCTGCTTCTCTCGAGATGTCTGAGATCCTTCCAGAC  
 GAATCAAATTCATATGTACCGGCTCTACTTTGGAAGCTCGATGAATCGGAGCTTGGAAATGGGACCC  
 CTTCTGACTTGTGCTCACACTGTCTGTCTGCACCAAGCTCCGTGACTCAGGATTTACCTGCAGCTCTGG  
 GAAAGACCGTTATTTACACAACATCCTGTGTTCCAGGACACCTTCCCAAGAAGGCTGCCAAGACCTCACC  
 CAGGAGCAGAGAGATCAGCTGAGGGCAGAGATCAGCATCATCAAAGGCAGATACCGGAGCCAAAGTGGAG  
 AGGATGAATCCCTAACCCAGCCTGGACCAATCAAACCCTTTTGTCTATTAGCCAGGCACATTTAATGAC  
 TGCACTTGCCACACAAGACCGTCTATTAGTGAAGATGAAGGGAAGGAATTTGCTGAGCTGTATGAGAAC  
 TTTCAAATCAAAGAAGAGAAAAAATCAAAGTGGAACAGTGTTTCAAGTGGACAGAAAGTAACTTTAG  
 CATAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

AscI-MluI

**ACCN:**

NM\_001293806

**Insert Size:**

3855 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:**

Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001293806.1, NP_001280735.1</u>
<b>RefSeq Size:</b>	4553 bp
<b>RefSeq ORF:</b>	3855 bp
<b>Locus ID:</b>	71382
<b>UniProt ID:</b>	<u>Q5BL07</u>
<b>Cytogenetics:</b>	5 A1
<b>Gene Summary:</b>	<p>Required for stability of PEX5 and protein import into the peroxisome matrix. Anchored by PEX26 to peroxisome membranes, possibly to form heteromeric AAA ATPase complexes required for the import of proteins into peroxisomes (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>