

Product datasheet for **MC224021**

Pex1 (NM_027777) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pex1 (NM_027777) 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: >MC224021 representing NM_027777
 Red=Cloning site Blue=ORF Orange=Stop codon

CTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC**GGCGC**
GCCC

ATGTGGAGCAGCGATCGCTTAGCGGGTGC GG GGTCTGGTGGGGCGGTCTGACGGTGGCCTTCACGAATG
 CTCGGGACTGCTTCTGCATCTGCCGGCGCCTCGTGGCCAGCTTACCTGCTGCAGAATCAAGCTAT
 AGAAGTGGCCAGCGATCACCAGCCTACCTACCTGAGCTGGTGGAAAGCCAGGCATTTTAATGATCAAAGT
 GAAAATGTGGCAGAAATTAATAGACAAGTTGGCCAGAACTTGGACTCTCAAGCGGAGATCAGGTGTTC
 TCAGGCCTTGTTCCCATGTGGTATCTTGCCAACAGGTTGAAGTGGAGCCTCTCTCAGCAGATGACTGGGA
 AATACTGGAGCTGCACGCCATTTCCCTTGAACAGCATCTTCTGGATCAGATTCAATAGTTTTCCCAAA
 GCTGTTGTTCCCATCTGGGTTGACCAGCAGACCTACATATTTATCCAGATCGTCACTCTGATGCCAGCTG
 CCCCTTATGGAAGGCTAGAACTAACACCAAACCTTATTTCAGCCAAAGACACGCCAAGCCAAAGAGAG
 CACATTTCCAAAAGAAGGAGATGCACACGGACAAGTTCATAGTTATGGGCGAGAACAGAAAGGATTGTCA
 AAGGAATTACAAACCAGGCAGCTTACATCAACTCAGAGGTATCACTGCATCCAATGGAAGAGACCCAA
 AAGTCCCAGGTGGCCCGTTGAAGCCAAGTGGTGGCTGTGCTCGGAAGCATGCTTTCCTTTGGGCTGA
 CAGTAAACAGGAGTCAGCCTGGGGCTCGTTGAACTCGGTGCTTTCAAAAACATGCAGTCACAGGCTGCC
 CCTCTGGAAGGTACTTTTCAGAGTATGCCAAGTCCAGCCACCTAGTGCGCGTACCACCACCCTACCTCTG
 TGTTTTCAAAACTGCACCGCCACGTATTTCTTGGGACCAAGAATACTTTGATGTGGAGCCAGCTT
 TACTGTGACCTATGAAAACTAGTTAAGCTACATTCTCCAAAACAACAGCAAGACAAAAGTAAGCAGGGT
 GTCCTGTTGCCTGACAAAGAGAAGCAGCTGTCCAAGTCTCCAGATCATAAGCAGATCAGCTCCAACCGCA
 GTGAGGAGGCTGCTGAGGCTGTGTGCTGAAGGTAGTCTGGAATGGACTCGAGGAGTTGAAGAATGCCAC
 AGAGTTCACCGAAAGTCTAGAGCTTCTCCACCGTGGGAAAGTCTGGCCTAAAGACGTCAATGAAGAACT
 ATAAAAACAGTGTCTCATCTTGGGTACAGCAGTCCGCTACCACGATGCTTCTTTGGTAATATCAAAGG
 AAGAGCGTATTAAGCTGGAATTAAGATGGGCTGAGAGAGTTCTCTCTGAGTACAGTTCACTTCTCAGGA
 AAAAGAAAAGGAAGAAGGAAAACTGTGTTTGTGTTGAGTTCCATCCTGCTGCAGAGATCTCAGTACAA
 GTCCTTCTAGAGCCCATGATAAAGAAGAACAGAGTGGGAAATCGACTTCTTCTTCCCTTTAAACGC



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TGAGCTCTTTGGGGGAGTGAGTGCCTTAGGTGCATCTGCAATGGAGCACATCACTCACAGTCTCCTGGG
 ACGCCCCTTGTCTAGGCAGCTGATGGCCCTCGTTGCAGGACTTAGGAATGGCGCTCTTTTGTACTGGA
 GGAAAGGGAAGCGGGAAGTCAACATTCGCGAAAGCCATCTGCAAGGAAGCACAGGACACTCTGGATGCC
 GTGTGGAGACAGTCGACTGCAAGGCTTACGAGGAAAAAGGCTTGAAAGCATACAAAAGCGCTAGAGGT
 GGCTTTCAGAGGCCCTGGAGGCAGCCATCTGTCTTCTGCTGGATGACCTGGACCTCATTGCCGGA
 CTGCCAAGTGTCCCGAGCAGGAGCACAGCCCTGAAGCGGTGCAGAGCCAGCGGCTTGCACATGCTTGA
 ACGATATGATCAAAGAGTTTGTTCACCGGGAAGCTTGGTGGCACTCATCGCCACGAGCCAGCTCCAGCA
 GTCTCTGCACCCTTCCCTTGTGTCTGCTCAAGGAATCCACACGTTTCAATGTGTCCAGCACCTTCAGCCT
 CCCAATCCGGAACAGAGATGTGAAATCTGCACAGTGTTGTGAAGAATAAACTGGGCTGTGATATAAGCA
 ATTTCCCTGACTTGGACCTGCAGTGCATAGCTAAAGACACAGAAGCGTTTGTGGCTCGTACTTTACAGT
 TCTTGTGGACCGACCATACACTTCTCTCTCGCCAGCATAGCTCCTCTAGGGAAGACTTGACTTTA
 ACAACATCAGACTTCCAAAAGGCTCTCCGTGGATTCTTCTGCTTCTCTGCGAAATGTCAACTGCATA
 AACCTAGAGACCTGGGCTGGGACAAGATTGGTGGATTACATGAAGTTCGGCAGATCCTCATGGATACTAT
 CCAGTTACCAGCCAAGTACCCAGAATTATTTGCAAACTTACCCATACGACAGAGGACAGGAATACTGCTT
 TATGGTCTCCAGGGACAGGAAAACTTACTTGTGGGGTAGTTGCAAGAGAGAGTGGAATGAATTTTA
 TTAGTATTAAGGGACCAGAGTACTCAGCAAATATATTGGCGCAAGTGAGCAAGCTGTTCCGAGATGTTTT
 CATCAGAGCACAGGCTGCAAAGCCCTGCATTCTTTTCTTTGATGAGTTTGTAGTCCATCGCTCCTCGAAGA
 GGCCATGACAACACAGGGGTTACAGACCGAGTAGTCAACCAAGTGTGACACAGTTAGACGGAGTAGAAG
 GCTTACAGGGAGTTATGTGCTGGCTGCTACTAGTCGCCCTGACTTGATCGACCCCTGCCCTGTTGCGGCC
 TGGCAGACTGGATAAATGTGTATACTGCCCTCCTCCAGATCAGGTGTCCCGTCTTGAGATTTTAACTGTC
 CTCAGCAAGTCTTAGCTCTGGCAGATGACGTGGACCTTACGACAGTGGCGTCCGTCACCGACTCGTTCA
 CTGGAGCGGATCTGAAAGCTCTGCTGTACAACGCTCAGCTGGAGGCTTGCAGGGACGGCTGCTGCCAG
 TGGCTTCCCGATGGAGGCTCCAGCTCTGACAGTACCTGAGTCTGTCTTCAATGGTCTTTCTTAAACCAC
 AGCAGTGGTTCGACGACTCCGCTGGAGATGGAGAATGTGGCTTAGAGCAATCCCTGCTTCTCTCGAGA
 TGTCTGAGATCCTTCCAGACGAATCAAAATCAATATGTACCGGCTCTACTTTGGAAGCTCGTATGAATC
 GGAGCTTGGAAATGGGACCCCTTCTGACTTGGCTCACACTGTCTGTCTGCACCAAGCTCCGTGACTCAG
 GATTTACCTGCAGCTCCTGGGAAAGACCCGTTATTTACACAACATCCTGTGTTCCAGGACACCTTCCCAAG
 AAGGCTGCCAAGACCTCACCCAGGAGCAGAGATCAGCTGAGGGCAGAGATCAGCATCATCAAAGGCAG
 ATACCGGACCAAAGTGGAGAGGATGAATCCCTTAACCAGCTGGACCAATCAAACCACCTTTTGTCTATT
 AGCCAGGCACATTAATGACTGCACTTGCCACACAAGACCGTCTATTAGTGAAGATGAAGGGAAGGAAT
 TTGCTGAGCTGTATGAGAACTTTCAAAATCCAAGAAGAGAAAAAATCAAAGTGGACAGTGTTCGAACT
 TGACAGAAAGTAACTTTAGCATAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Ascl-MluI

ACCN:

NM_027777

Insert Size:

3735 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).

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_027777.2](#), [NP_082053.1](#)

RefSeq Size: 4433 bp

RefSeq ORF: 3735 bp

Locus ID: 71382

UniProt ID: [Q5BL07](#)

Cytogenetics: 5 A1

Gene Summary: 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]

Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 5' coding region, compared to variant 1. It encodes isoform 2, which lacks an internal segment and is shorter, compared to isoform 1.