

## Product datasheet for **MC228434**

### **Pex5 (NM\_001277330) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pex5 (NM_001277330) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pex5
Synonyms:	AW212715; ESTM1; PTS1R; Pxr1; X83306
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC228434 representing NM\_001277330  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCAATGCGGGAGCTGGTGGAGGGCGAATGTGGGGGTGCCAACCCGCTGATGAAGCTGGCCACCCATT  
 TCACCCAGGACAAGGCCCTTCGGCAGGAGGGACTGAGGCCTGGCCCTGGCCTCCGGGAGCCTCAGCAGC  
 AGAGACCGTTTCCAAGCCTTTGGGAGTAGGAACTGAAGACGAGTTGGTGTGAGAATTCCTGCAGGACCAG  
 AATGCAACTCTTGTATCCCGAGCCCTCAGACCTCAAGATGGATGACCTCCTGGCAGAGATGCAGGAGA  
 TTGAACAGTCAAATTTCCGACAGCTCCTCAGAGAGCCCTGGTGTGGCAGATTTGGCCTTGTCTGAGAA  
 TTGGGCCAGGAGTTTCTGCAGCTGGAGATGCTGTGGATGTAGCTCAAGATTATAATGAGACCGACTGG  
 TCCCAAGAATTCATCGCCGAAGTTACAGACCCACTGTCCGTGTCCCTGCCCGATGGGCTGAGGAGTATC  
 TGGAGCAGTCTGAGGAGAAGCTGTGGTTGGGAGACCAGGAAGGATCCTCTACCGCTGATCGATGGTACGA  
 TGAATATCATCCTGAGGAGGACCTGCAGCACACAGCCAGTGACTTTGTGTCCAAGGTGGACGACCCCAA  
 TTGGCTAACTCTGAGGGCACGTCAGAGGCCTGGGTTGATCAGTTTACAAGACCAGGAAACAAAATAGCTG  
 CCCTTCAGGTGGAATTTGAACGAGCCAAGTCAGCTATAGAGTCTGATGTGATTTCTGGGACAAGTTACA  
 GGCAGAGTTGGAGGAGATGGCCAAGCGGGATGCCGAGGCGCACCCCTGGCTTTCTGACTATGATGACCTC  
 ACATCCGCTTCTATGACAAGGGTTACCAGTTTGGAGGAGAGAATCCCTTGCGTGACCACCTCAGCCTT  
 TTGAAGAAGGGCTGCATCGACTGGAGGAGGAGACCTGCCAATGCTGTGTTGCTCTTCGAGGCTGCTGT  
 GCAGCAGGATCCTAAGCACATGGAAGCTTGGCAGTACCTGGGCACCACCCAGGCCGAGAATGAGCAAGAG  
 CTCTTGGCTATCAGTCCCTGCGGAGGTGTCTGGAACAAAGCCAGATAACCGGACAGCACTGATGGCGC  
 TGGCTGTGAGCTTTACCAATGAGTCCCTGCAGCGCCAGGCTGTGAGACGTTGAGGGACTGGCTGCGCTA  
 CTACCGGCTACGCTCATCTGGTGGCTCTGGGGAAGAAGGGGCGACCGGGCAGGCCCCAGCAAGCGC  
 ATCTTGGGATCTCTGTTGCTGACTCCCTGTTTCTGAAGTAAAAGATCTCTTCTGGCGCTGTGCGTC  
 TGGACCTACATCCATTGACCCTGATGTGAGTGTGGCCTGGGAGTCTCTTCAACCTGAGCGGGGAGTA  
 CGACAAGGCTGTGGACTGTTTCACAGCTGCCCTCAGTGTTCGCCCAATGACTATTTGATGTGGAACAAG  
 CTTGGGGCCACCCTGGCCAATGGGAACCAGAGTGAAGAAGCAGTGGCTGCATACCGCCGAGCCCTTGAAC  
 TACAGCCTGGGTATATTCGGTCCCGGTATAACCTAGGCATCAGCTGCATCAACCTGGGAGCTCACCGTGA  
 GGCTGTGGAGCACTTTCTGGAGGCTCTGAACATGCAGAGGAAGAGCCGGGGCCCTCGGGGTGAGGGGGC  
 GCCATGTCTGAGAACATCTGGAGTACCCTGCGCTTGGCGTTATCCATGTTAGGCCAGAGCGATGCCTATG  
 GGCAGCCGATGCTCGGGATCTGTCTGCCCTCCTAGCTATGTTTGGCCTGCCCCAG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_001277330
- Insert Size:** 1809 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.
- 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\\_001277330.1](#), [NP\\_001264259.1](#)

**RefSeq Size:** 3076 bp

**RefSeq ORF:** 1809 bp

**Locus ID:** 19305

**UniProt ID:** [O09012](#)

**Cytogenetics:** 6 59.15 cM

**Gene Summary:** Binds to the C-terminal PTS1-type tripeptide peroxisomal targeting signal (SKL-type) and plays an essential role in peroxisomal protein import.[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (4) differs in the 5' UTR and lacks an alternate in-frame exon in the coding region compared to variant 1. The resulting protein (isoform 2) is shorter but has the same N- and C-termini compared to isoform 1. Variants 2 and 4 encode the same protein (isoform 2).