

Product datasheet for **MC219516**

Pex5 (NM_175933) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pex5 (NM_175933) 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: >MC219516 representing NM_175933
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAATGCGGGAGCTGGTGGAGGGCGAATGTGGGGGTGCCAACCCGCTGATGAAGCTGGCCACCCATT
 TCACCCAGGACAAGGCCCTTCGGCAGGAGGGACTGAGGCCTGGCCCTGGCCTCCGGGAGCCTCAGCAGC
 AGAGACCGTTTCCAAGCCTTTGGGAGTAGGAACTGAAGACGAGTTGGTGTGAGAATTCCTGCAGGACCAG
 AATGCAACTCTTGATCCCGAGCCCTCAGACCTCAAGATGGATGACCTCCTGGCAGAGATGCAGGAGA
 TTGAACAGTCAAATTTCCGACAGCTCCTCAGAGAGCCCTGGTGTGGCAGATTTGGCCTTGCTGAGAA
 TTGGGCCCAGGAGTTTCTGCAGCTGGAGATGCTGTGGATGTAGCTCAAGATTATAATGAGACCGACTGG
 TCCCAAGAATTCATCGCCGAAGTTACAGACCCACTGTCCGTGTCCCTGCCCGATGGGCTGAGGAGTATC
 TGGAGCAGTCTGAGGAGAAGCTGTGGTTGGGAGACCAGGAAGGATCCTCTACCGCTGATCGATGGTACGA
 TGAATATCATCCTGAGGAGGACCTGCAGCACACAGCCAGTGACTTTGTGTCCAAGGTGGACGCCCAAA
 TTGGCTAACTCTGAGGGCACGTCAGAGGCCTGGGTTGATCAGTTTACAAGACCAGGAAACAAAATAGCTG
 CCCTTCAGGTGGAATTTGAACGAGCCAAGTCAGCTATAGAGTCTGATGTGATTTCTGGGACAAGTTACA
 GGCAGAGTTGGAGGAGATGGCCAAGCGGGATGCCGAGGCGCACCCCTGGCTTTCTGACTATGATGACCTC
 ACATCCGCTTCTATGACAAGGGTTACCAGTTTGGAGGAGAGAATCCCTTGCGTGACCACCTCAGCCTT
 TTGAAGAAGGGCTGCATCGACTGGAGGAGGAGACCTGCCAATGCTGTGTTGCTTTCGAGGCTGCTGT
 GCAGCAGGATCCTAAGCACATGGAAGCTTGGCAGTACCTGGGCACCACCCAGGCCGAGAATGAGCAAGAG
 CTCTTGGCTATCAGTCCCTGCGGAGGTGTCTGGAACAAAGCCAGATAACCGGACAGCACTGATGGCGC
 TGGCTGTGAGCTTTACCAATGAGTCCCTGCAGCGCCAGGCTGTGAGACGTTGAGGGACTGGCTGCGCTA
 CTACCGGCTACGCTCATCTGGTGGCTCCTGGGGAAGAAGGGGCGACCGGGCAGGCCCCAGCAAGCGC
 ATCTTGGGATCTCTGTTGCTGACTCCCTGTTTCTGAAGTAAAAGATCTCTTCTGCGGCTGTGCGTC
 TGGACCTACATCCATTGACCCTGATGTGCAGTGTGGCCTGGGAGTCTCTTCAACCTGAGCGGGGAGTA
 CGACAAGGCTGTGGACTGTTTCACAGCTGCCCTCAGTGTTCGCCCAATGACTATTTGATGTGGAACAAG
 CTTGGGGCCACCCTGGCCAATGGGAACCAGAGTGAAGAAGCAGTGGCTGCATACCGCCGAGCCCTTGAAC
 TACAGCCTGGGTATATTCGGTCCCGGTATAACCTAGGCATCAGCTGCATCAACCTGGGAGCTCACCGTGA
 GGCTGTGGAGCACTTTCTGGAGGCTCTGAACATGCAGAGGAAGAGCCGGGGCCCTCGGGGTGAGGGGGC
 GCCATGTCTGAGAACATCTGGAGTACCCTGCGCTTGGCGTTATCCATGTTAGGCCAGAGCGATGCCTATG
 GGCAGCCGATGCTCGGGATCTGTCTGCCCTCCTAGCTATGTTTGGCCTGCCCCAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_175933
- 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).
- 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_175933.2](#), [NP_787947.1](#)

RefSeq Size: 3074 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 (2) uses an alternate splice site 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).