

Product datasheet for **RN216987**

Pex5 (NM_001170584) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pex5 (NM_001170584) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Pex5
Synonyms:	PTS1-BP; PTS1R
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN216987 representing NM_001170584
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAATGCGGGAGCTGGTGGAGAGCGAATGTGGGGGTGCCAACCCGCTGATGAAGCTGGCCACCCACT
 TCACCCAGGACAAGGCCCTTCGGCAGGAGGGACTGAGGCCTGGCCCTGGCCTCCAGGAGCCTCAGCGGC
 GGAAACGGTTTCCAAGCCTTTGGGAGTAGGCACCTGAAGATGAGTTGGTGGCAGAATTCCTGCAGGACCAG
 AATGCAACTCTTGTATCCCGAGCCCTCAGACCTCAAGATGGATGACCTCTTGGCGGAGATGCAGGAGA
 TTGAACAGTCAAACCTTCGCCAGGCTCCTCAGAGAGCCCTGGTGTGGCAGACTTGGCTTTGTCTGAGAA
 TTGGGCCCAGGAGTTTCTGCCGCTGGAGATGCTGTGGATGTAGCTCAGGATTATAACGAGACCGACTGG
 TCCAAGAATTCATCGCCGAAGTCACGGACCCTCTGTCTGTGTCCCAGCCCGATGGGCTGAGGAGTATC
 TGGAACAGTCTGAGGAGAAGCTGTGGTTGGGAGATCCAGAAGAACCTCTACCACTGACCGATGGTACGA
 TGAATACCATCCTGAGGAGGATCTGCAGCACACAGCCAGTGACTTGTGTCCAAGGTGGACGCCCAAA
 TTGGCTAACTCTGAGGGCACATCGGAGGCTGGGTTGATCAGTTACAAGACCAGGAAACAACTGGCTG
 CTCTTCAGGTGGAATTTGAACGAGCCAAGTCAGCTATAGAGTCAGACGTCGATTTCTGGGACAAGTTGCA
 GGCAGAGTTGGAGGAGATGGCAAACGGGATGCTGAGGGCGACCCCTGGCTTTCTGACTATGACGACCTC
 ACGTCTGCTTCTATGACAAGGGCTACCACTTTGAGGAGGAGAATCCCTTGCCTGACCCCTCAGCCTT
 TTGAAGAAGGGCTGCGTCGACTTGGAGGGGAGACCTGCCAATGCTGTGCTGCTTTCGAGGCTGCGGT
 GCAGCAGGATCCTAAGCACATGGAGGCTGGCAGTACCTGGGCACCACTCAGGCTGAGAACGAGCAAGAG
 CTCTTGGCCATCAGTGCCTGCGCAGGTGTCTGGAGCTAAAGCCAGATAACCGGACAGCACTGATGGCGC
 TGGCTGTAAGCTTCAACATGAGTCCCTGCAGCGGCAAGCTGTGAGACGCTGCGGGACTGGCTGCGCTA
 CTACCGGCTACGCTACCTGGTGGCTCTGGTGAAGAAGGGGCTAGTGGGGCAGGACTGGGTCCAGC
 AAGCGCTCTGGGATCTCTGTTGTCTGACTCCCTGTTTCTTGAAGTAAAAGAACTCTTCTGGCAGCTG
 TCGTCTGGACCCTACATCCATTGACCCTGACGTGCAAGTGGCCTGGGAGTCTCTTCAACCTGAGTGG
 GGAGTACGACAAGGCTGTGGACTGTTTCACGGCTGCCCTCAGTGTCCGCCCAATGACTATTTGCTGTGG
 AACAGCTTGGGGCCACCCTGGCCAACGGGAACAGAGTGAAGAAGCAGTGGCTGCTTACCGCAGAGCCC
 TTGAACACAGCCTGGGTACATCCGCTCCCGCTACAACCTAGGCATCAGCTGCATCAACCTTGGGGTCA
 CCGTGAGGCCGTGGAACACTTTCTGGAGCCCTGAACATGCAGAGGAAGAGCCGGGGCCCTGGGGTGG
 GGGGGCCCATGTCTGAGAACATCTGGAGTACTCTGCGGTTGGCATTGTCCATGCTAGGCCAGAGTGATG
 CCTATGGGGCAGCCGATGCTCGGGACCTGCCTGCCCTTCTAACTATGTTTGGCCTGCCCCAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001170584

Insert Size: 1815 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:	<ol style="list-style-type: none">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:	<u>NM_001170584.1</u> , <u>NP_001164055.1</u>
RefSeq Size:	3197 bp
RefSeq ORF:	1815 bp
Locus ID:	312703
UniProt ID:	<u>Q2M2R8</u>
Cytogenetics:	4q42
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]