

## Product datasheet for **MR225187**

### **Pex5 (NM\_175933) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pex5 (NM_175933) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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**ORF Nucleotide Sequence:**

>MR225187 representing NM\_175933  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCAATGCGGGAGCTGGTGGAGGGCGAATGTGGGGGTGCCAACCCGCTGATGAAGCTGGCCACCCATT  
 TACCCAGGACAAGGCCCTTCGCAGGAGGGACTGAGGCCTGGCCCTGGCCTCCGGGAGCCTCAGCAGC  
 AGAGACCGTTTCCAAGCCTTTGGGAGTAGGAAGTGAAGACGAGTTGGTGTGAGAATTCCTGCAGGACCAG  
 AATGCAACTCTTGTATCCCGAGCCCTCAGACCTCAAGATGGATGACCTCCTGGCAGAGATGCAGGAGA  
 TTGAACAGTCAAATTTCCGACAGCTCCTCAGAGAGCCCTGGTGTGGCAGATTTGGCCTTGTCTGAGAA  
 TTGGGCCAGGAGTTTCTGCAGCTGGAGATGCTGTGGATGTAGCTCAAGATTATAATGAGACCGACTGG  
 TCCAAGAATTCATCGCCGAAGTTACAGACCCACTGTCCGTGTCCCTGCCCGATGGGCTGAGGAGTATC  
 TGGAGCAGTCTGAGGAGAAGCTGTGGTTGGGAGACCAGGAAGGATCCTCTACCGCTGATCGATGGTACGA  
 TGAATATCATCCTGAGGAGGACCTGCAGCACACAGCCAGTGACTTTGTGTCCAAGGTGGACGACCCCAA  
 TTGGCTAACTCTGAGGGCACGTCAGAGGCCTGGGTTGATCAGTTTACAAGACCAGGAAACAAAATAGCTG  
 CCCTTCAGGTGGAATTTGAACGAGCCAAGTCAGCTATAGAGTCTGATGTGATTTCTGGGACAAGTTACA  
 GGCAGAGTTGGAGGAGATGGCCAAGCGGGATGCCGAGGCGCACCCCTGGCTTTCTGACTATGATGACCTC  
 ACATCCGCTTCTATGACAAGGGTTACCAGTTTGGAGGAGAGAATCCCTTGCGTGACCACCTCAGCCTT  
 TTGAAGAAGGGCTGCATCGACTGGAGGAGGGAGACCTGCCAATGCTGTGTTGCTTTCGAGGCTGCTGT  
 GCAGCAGGATCCTAAGCATGGAAGCTTGGCAGTACCTGGGCACCACCCAGGCCGAGAATGAGCAAAGAG  
 CTCTTGGCTATCAGTCCCTGCGGAGGTGTCTGGAATAAAGCCAGATAACCCGACAGCACTGATGGCGC  
 TGGCTGTAGCTTTACCAATGAGTCCCTGCAGCGCCAGGCTGTGAGACGTTGAGGACTGGCTGCGCTA  
 CTACCCGGCTACGCTCATCTGGTGGCTCCTGGGGAAGAAGGGGCGACCGGGCAGGCCCCAGCAAGCGC  
 ATCTTGGGATCTCTGTTGCTGACTCCCTGTTTCTGAAGTAAAAGATCTCTTCTGGCGCTGTGCGTC  
 TGGACCTACATCCATTGACCCTGATGTGAGTGTGGCCTGGGAGTCTCTTCAACTGAGCGGGGAGTA  
 CGACAAGGCTGTGGACTGTTTCACAGCTGCCCTCAGTGTTCGCCCAATGACTATTTGATGTGGAACAAG  
 CTTGGGGCCACCCTGGCCAATGGGAACCAGAGTGAAGAAGCAGTGGTGCATACCGCCGAGCCCTTGAAC  
 TACAGCCTGGGTATATTCGGTCCCGGTAACTAGGCATCAGCTGCATCAACTGGGAGCTCACCGTGA  
 GGCTGTGGAGCACTTTCTGGAGGCTCTGAACATGCAGAGGAAGAGCCGGGGCCCTCGGGGTGAGGGGGC  
 GCCATGTCTGAGAACATCTGGAGTACCCTGCGCTTGGCGTTATCCATGTTAGGCCAGAGCGATGCCTATG  
 GGCAGCCGATGCTCGGGATCTGTCTGCCCTCCTAGCTATGTTTGGCCTGCCCCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR225187 representing NM\_175933  
 Red=Cloning site Green=Tags(s)

MAMRELVEGECGGANPLMKLATHFTQDKALRQEGLRPGWPPGASAAETVSKPLGVGTEDELVSEFLQDQ  
 NATLVSRAPQTFKMDLLAEMQIEEQSNFRQAPQRAPGVADLALSENWAQEF LAAGDAVDVAQDYNETDW  
 SQEFIAEVDPLSVSPARWAEYLEQSEEKWLGDQEGSSTADRWYDEYHPEEDLQHTASDFVSKVDDPK  
 LANSEGTSEAWVDQFTRPGNKIAALQVEFERAKSAIESDVDFWKLQAELEEMAKRDAEHPWLSYDSDL  
 TSASYDKYQFEEENPLRDHPQPFEELHRL EEGDL PNAVLLFEAAVQQDPKHMEAWQYL GTTQAENEQE  
 LLAISALRRCLELKP DNRTALMALAVSF TNE SLQRQACETLRDWLRYSPAYAHLVAPGEEGATGAGPSKR  
 ILGSLSDSLFLEVKDLFLAAVRLDPTSIDPDVQCGLGVL FNL SGEYDKAVDCFTAALSVRPNDYLMWNK  
 LGATLANGNQSEEAVAA YRRALELQPGYIRSRYNLGI SCINLGAHREAVEHFLEALNMQRKSRGPRGEGG  
 AMSENIWSTLRLAL SMLGQSDAYGAADARDL SALLAMFGLPQ

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

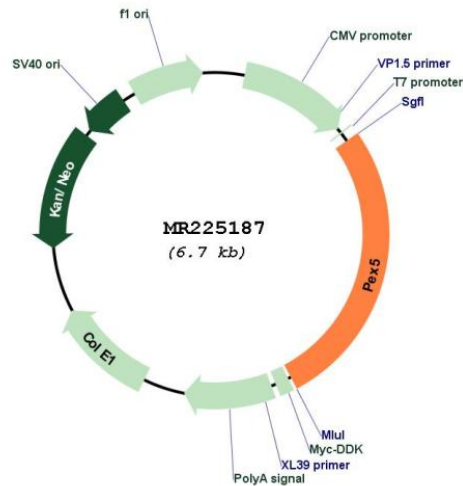
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_175933

ORF Size: 1806 bp

<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_175933.2</a> , <a href="#">NP_787947.1</a>
<b>RefSeq Size:</b>	3074 bp
<b>RefSeq ORF:</b>	1809 bp
<b>Locus ID:</b>	19305
<b>UniProt ID:</b>	<a href="#">O09012</a>
<b>Cytogenetics:</b>	6 59.15 cM
<b>MW:</b>	67.3 kDa
<b>Gene Summary:</b>	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]