

## Product datasheet for **MR230756**

### **Pex5 (NM\_001277805) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pex5 (NM_001277805) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pex5
Synonyms:	AW212715; ESTM1; PTS1R; Pxr1; X83306
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR230756 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCAATGCGGGAGCTGGTGGAGGGCGAATGTGGGGGTGCCAACCCGCTGATGAAGCTGGCCACCCATT  
TCACCCAGGACAAGGCCCTTCGGCAGGAGGGACTGAGGCCTGGCCCTGGCCTCCGGGAGCCTCAGCAGC  
AGAGACCGTTTCCAAGCCTTTGGGAGTAGGAAGTGAAGACGAGTTGGTGTGAGAATTCCTGCAGGACCAG  
AATGCAACTCTTGATCCCGAGCCCTCAGACCTCAAGATGGATGACCTCCTGGCAGAGATGCAGGAGA  
TTGAACAGTCAAATTTCCGACAGCTCCTCAGAGAGCCCTGGTGTGGCAGATTTGGCCTTGCTGAGAA  
TTGGGCCAGGAGTTTCTGCAGCTGGAGATGCTGTGGATGTAGCTCAAGATTATAATGAGACCGACTGG  
TCCAAGAATTCATCGCCGAAGTTACAGACCCACTGTCCGTGTCCCTGCCCGATGGGCTGAGGAGTATC  
TGGAGCAGTCTGAGGAGAAGCTGTGTTGGGAGACCAGGAAGGATCCTCTACCGTGATCGATGGTACGA  
TGAAATATCATCCTGAGGAGGACCTGCAGCACACAGCCAGTGACTTGTGTCCAAGGTGGACGACCCCAA  
TTGGCTAACTCTGAGTTCCTGAAATTCGTGCGCAGATTGGCGAGGGGCAGGTGTCCCTGGAGTCCGCTG  
CAGGGTCGGGCGGAGCTCAGGCAGAACAGTGGGCAGCAGAGTTTATACAGCAGCAGGGCAGCTCAGAGGC  
CTGGGTTGATCAGTTTACAAGACCAGGAAACAAAATAGCTGCCCTTCAGGTGGAATTTGAACGAGCCAAG  
TCAGCTATAGAGTCTGATGTCGATTTCTGGGACAAGTTACAGGCAGAGTTGGAGGAGATGGCCAAGCGGG  
ATGCCGAGGGCGACCCCTGGCTTTCTGACTATGATGACCTCACATCCGCTTCTATGACAAGGGTTACCA  
GTTTGAGGAGGAGAATCCCTTGGGTGACCACCTCAGCCTTTTGAAGAAGGGCTGCATCGACTGGAGGAG  
GGAGACCTGCCAATGCTGTGTTGCTCTTCGAGGCTGCTGTGCAGCAGGATCCTAAGCACATGGAAGCTT  
GGCAGTACCTGGGCACCACCCAGGCCGAGAATGAGCAAGAGCTCTTGGCTATCAGTGCCCTGCGGAGGTG  
TCTGGAACATAAAGCCAGATAACCGGACAGCACTGATGGCGCTGGCTGTGAGCTTTACCAATGAGTCCCTG  
CAGCGCCAGGCTGTGAGACGTTGAGGGACTGGCTGCGCTACTCACCGGCTACGCTCATCTGGTGGCTC  
CTGGGGAAGAAGGGGCGACCGGGCAGGCCCCAGCAAGCGCATCTGGGATCTCTGTTGTGCTGACTCCCT  
GTTTCTTGAAGTAAAAGATCTCTTCTGGCGGCTGTGCGTCTGGACCCTACATCCATTGACCCTGATGTG  
CAGTGTGGCTGGGAGTCTCTTCAACCTGAGCGGGGAGTACGACAAGGCTGTGGACTGTTTACAGCTG  
CCCTCAGTGTTCGCCCAATGACTATTTGATGTGGAACAAGCTTGGGGCCACCCTGGCCAATGGGAACCA  
GAGTGAAGAAGCAGTGGCTGCATACCGCCGAGCCCTTGAACACAGCCTGGGTATATTCGGTCCCGGTAT  
AACCTAGGCATCAGCTGCATCAACCTGGGAGCTCACCGTGAGGCTGTGGAGCACTTCTGGAGGCTCTGA  
ACATGCAGAGGAAGACCGGGGCCCTCGGGGTGAGGGGGCGCCATGTCTGAGAACATCTGGAGTACCCT  
GGCTTGGCGTTATCCATGTTAGGCCAGAGCGATGCCTATGGGGCAGCCGATGCTCGGGATCTGTCTGCC  
CTCCTAGCTATGTTTGGCTGCCCCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR230756 protein sequence  
Red=Cloning site Green=Tags(s)

MAMRELVEGECGGANPLMKLATHFTQDKALRQEGLRPGWPPGASAAETVSKPLGVGTEDELVSEFLQDQ  
 NATLVSRAPQTFKMDLLAEMQIEIQSNFRQAPQAPGVADLALSENWAQEF LAAGDAVDVAQDYNEDW  
 SQEFIAEVDPLSVSPARWAEYLEQSEEKWLGDQEGSSTADRWYDEYHPEEDLQHTASDFVSKVDDPK  
 LANSEFLKFVRQIGEGQVSLESAAGSAGGAQAEQWAAEF IQQQGTSEAWVDQFTRPGNKIAALQVEFERAK  
 SAIESDVDFWDLQAELEEMAKRDAEAHPWLSYDDLTSAZYDKGYQFEEENPLRDHPQPFEEGLHRL  
 EEDLGNVAVLLFEAAVQDDPKHMEAWQYLGTQAENEQELLAISALRRCLKLPDNRALMALAVSFTNESL  
 QRQACETLRDWRYPAYAHLVAPGEEGATGAGPSKRILGSLSDSLFLEVKDLFAAVRLDPTSIDPDV  
 QCGLGVLFNLSGEYDKAVDCFTAALSVRPNDYLMWNKLGATLANGNQSEEAVAAYRRALEQPGYIRSR  
 YNLGISCINLGAHREAVEHFLEALNMQRKSRGPRGEGGAMSENIWSTLRLALSMLGQSDAYGAADARDLSA  
 LLAMFGLPQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**ACCN:** NM\_001277805

**ORF Size:** 1920 bp

**OTI Disclaimer:** 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. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001277805.1](#), [NP\\_001264734.1](#)

**RefSeq Size:** 3185 bp

**RefSeq ORF:** 1920 bp

**Locus ID:** 19305

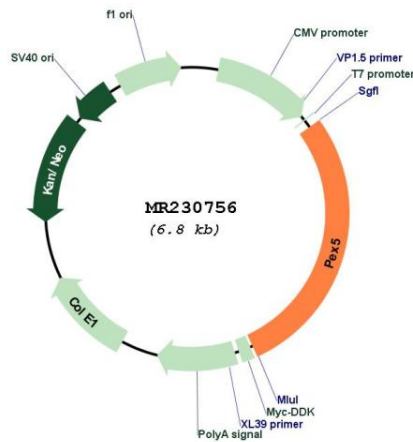
**UniProt ID:** [O09012](#)

**Cytogenetics:** 6 59.15 cM

**MW:** 70.8 kDa

**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]

**Product images:**



Circular map for MR230756