

Product datasheet for **MR209684**

Pex5 (NM_008995) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pex5 (NM_008995) 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:

>MR209684 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCAATGCGGGAGCTGGTGGAGGGCGAATGTGGGGGTGCCAACCCGCTGATGAAGCTGGCCACCCATT
TCACCCAGGACAAGGCCCTTCGGCAGGAGGGACTGAGGCCTGGCCCTGGCCTCCGGGAGCCTCAGCAGC
AGAGACCGTTTCCAAGCCTTTGGGAGTAGGAAGTGAAGACGAGTTGGTGTGAGAATTCCTGCAGGACCAG
AATGCAACTCTTGATCCCGAGCCCTCAGACCTCAAGATGGATGACCTCCTGGCAGAGATGCAGGAGA
TTGAACAGTCAAATTTCCGACAGCTCCTCAGAGAGCCCTGGTGTGGCAGATTTGGCCTTGCTGAGAA
TTGGGCCCAGGAGTTTCTGCAGCTGGAGATGCTGTGGATGTAGCTCAAGATTATAATGAGACCGACTGG
TCCAAGAATTCATCGCCGAAGTTACAGACCCACTGTCCGTGTCCCTGCCCGATGGGCTGAGGAGTATC
TGGAGCAGTCTGAGGAGAAGCTGTGGTTGGGAGACCAGGAAGGATCCTCTACCGTGATCGATGGTACGA
TGAAATATCATCCTGAGGAGGACCTGCAGCACACAGCCAGTGACTTTGTGTCCAAGGTGGACGACCCCAA
TTGGCTAACTCTGAGTTCCTGAAATTCGTGCGCAGATTGGCGAGGGGCAGGTGTCCCTGGAGTCCGCTG
CAGGGTCGGGCGGAGCTCAGGCAGAACAGTGGGCAGCAGAGTTTATACAGCAGCAGGGCAGCTCAGAGGC
CTGGGTTGATCAGTTTACAAGACCAGGAAACAAAATAGCTGCCCTTCAGGTGGAATTTGAACGAGCCAAG
TCAGCTATAGAGTCTGATGTGATTTCTGGGACAAGTTACAGGCAGAGTTGGAGGAGATGGCCAAGCGGG
ATGCCGAGGGCGCACCCCTGGCTTTCTGACTATGATGACCTCACATCCGCTTCTATGACAAGGGTTACCA
GTTTGAGGAGGAGAATCCCTTGGGTGACCACCTCAGCCTTTTGAAGAAGGGCTGCATCGACTGGAGGAG
GGAGACCTGCCAATGCTGTGTTGCTCTTCGAGGCTGCTGTGCAGCAGGATCCTAAGCACATGGAAGCTT
GGCAGTACCTGGGCACCACCCAGGCCGAGAATGAGCAAGAGCTTTGGCTATCAGTGCCCTGCGGAGGTG
TCTGGAACATAAAGCCAGATAACCGGACAGCACTGATGGCGCTGGCTGTGAGCTTTACCAATGAGTCCCTG
CAGCGCCAGGCCCTGTGAGACGTTGAGGGACTGGCTGCGCTACTCACCGGCCCTACGCTCATCTGGTGGCTC
CTGGGGAAGAAGGGGCGACCGGGCAGGCCCCAGCAAGCGCATCTGGGATCTCTGTTGTGCTGACTCCCT
GTTTCTTGAAGTAAAAGATCTCTTCTGGCGGCTGTGCGTCTGGACCCTACATCCATTGACCCTGATGTG
CAGTGTGGCTGGGAGTCTCTTCAACCTGAGCGGGGAGTACGACAAGGCTGTGGACTGTTTACAGCTG
CCCTCAGTGTTCGCCCAATGACTATTTGATGTGGAACAAGCTTGGGGCCACCCTGGCCAATGGGAACCA
GAGTGAAGAAGCAGTGGCTGCATACCGCCGAGCCCTTGAACACAGCCTGGGTATATTCGGTCCCGGTAT
AACCTAGGCATCAGCTGCATCAACCTGGGAGCTCACCGTGAGGCTGTGGAGCACTTCTGGAGGCTCTGA
ACATGCAGAGGAAGACCGGGGCCCTCGGGGTGAGGGGGCGCCATGTCTGAGAACATCTGGAGTACCCT
GGCTTGGCGTTATCCATGTTAGGCCAGAGCGATGCCTATGGGGCAGCCGATGCTCGGGATCTGTCTGCC
CTCCTAGCTATGTTTGGCTGCCCCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR209684 protein sequence
Red=Cloning site Green=Tags(s)

MAMRELVEGECGGANPLMKLATHFTQDKALRQEGLRPGWPPGASAAETVSKPLGVGTEDELVSEFLQDQ
 NATLVSRAPQTFKMDLLAEMQIEIQSNFRQAPQAPGVADLALSENWAQEF LAAGDAVDVAQDYNEDW
 SQEFIAEVDPLSVSPARWAEYLEQSEEKWLGDQEGSSTADRWYDEYHPEEDLQHTASDFVSKVDDPK
 LANSEFLKFVRQIGEGQVSLESAAGSAGGAQAEQWAAEF IQQQGTSEAWVDQFTRPGNKIAALQVEFERAK
 SAIESDVDFWDLKQAELEEMAKRDAEAHPWLSYDDLTSAZYDKGYQFEEENPLRDHPQPFEEGLHRL
 EEDLGNVAVLLFEAAVQDDPKHMEAWQYLGTQAENEQELLAISALRRCLKLPDNRALMALAVSFTNESL
 QRQACETLRDWRYPAYAHLVAPGEEGATGAGPSKRILGSLSDSLFLEVKDLFAAVRLDPTSIDPDV
 QCGLGVLFNLSGEYDKAVDCFTAALSVRPNDYLMWNKLGATLANGNQSEEAVAAARRALELQPGYIRSR
 YNLGISCINLGAHREAVEHFLEALNMQRKSRGPRGEGGAMSENIWSTLRLLSMLGQSDAYGAADARDLSA
 LLAMFGLPQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_008995

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_008995.2](#), [NP_033021.2](#)

RefSeq Size: 3148 bp

RefSeq ORF: 1920 bp

Locus ID: 19305

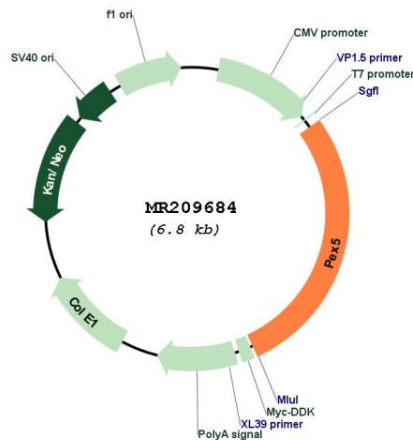
UniProt ID: [O09012](#)

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 MR209684