

Product datasheet for MR218545

Pex3 (NM_001164195) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pex3 (NM_001164195) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Pex3
Synonyms: 1700014F15Rik; 2810027F19Rik; 2900010N04Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR218545 representing NM_001164195
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGAGATCAATGTGGAATTTCTGAAACGTCACAAAAAGAAATGCATCTTCTGGGCACAGTCCTCG
 GAGGAGTATATCTCTGGGAAAATATGGACAGAAAAAATTAGAGAAATACAAGAAAGAGAAGCTGCAGA
 ATACATTGCCAAGCTCGGCACAGTACCATTTGAAAGCAACCAGAGGACTTGAATATGACAGTGCTG
 TCCATGCTGCCGACACTGAGAGAGGCCCTAATGCAGCAGCTCAACTCGGAGAGTCTCACAGCTCTGTTGA
 AAAGCAGGCCCTCAAACAAGCTGGAATATGGGAGGACCTAAAGATAATAAGTTTACAAGAAGTATTGT
 AGCTGTATATAGCACGTGTATGCTGGTGGTTCTTTTGGCAGTCCAGTTAAACATAAATGGTGATATATT
 TACCTGGATAATGCAACAGTTGGCAAAAATGGCACTACCGTTCTTGTCTCCTCCGGATGTACAGCAGCAGT
 ATTTATCAAGTATTCAACACCTCCTTGGAGACGGCCTCACAGAGTTGGTCACTGTCAATAAACAAGCTGT
 ACAAAAGGATCTTAGGAAGTGTCTCTCTTAAACATTCCTTGTCCCTTTGGACTTGGAGCAAAAACTAAAA
 GAAATCAGAATCTTGTGAGCAACATCAGTCTTCTTGAATGATAAAGATGTGTCCAGGCTTCACTGT
 GCCAGTACATGATGCCAGATGAGGAGACACCATTGGCAGCTCAGGCCTATGGGCTTTCTCACAGAGATAT
 CACCACTATTAACCTTCTCAATGAGACAAGAGACATGCTGGAAAGTCCAGATTTTAGTACAGTTTTGAAT
 ACCTGTCTAAACAGAGGCTTCAGTCGGCTTCTAGACAACATGGCCGAATCTTTTCGACCCCTGAGCAGG
 ACCTACAGCATGGTAACTCCATAAACAGTCTGTCCAGTGTCCAGCTGCCCTTTAGCTAAGATAATCCCAT
 AGTGAACGGGCAGATCCATTCAGTTTGCAGTGAGACACCTAGTCATTTTGTGCAGCTTACCTGTGGTTCT
 TCATTGAGAAGGGCATTAGAGCAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR218545 representing NM_001164195
 Red=Cloning site Green=Tags(s)

MLRSMWNFLKRHKKCI FLGTVLGGVYILGKYGQKKIREIQERAAEYIAQARRQYHFESNQRTCNMTVL
 SMLPTLREALMQQLNSESLTALLKSRPSNKLEIWEDLKIISFTRSI VAVYSTCMLVLLRVQLNIIGGYI
 YLDNATVGKNGTTVLAPPDVQQYLSSIQHLLGDGLTELVTVIKQAVQRILGSVSLKHSLSLLDLEQKLK
 EIRILVEQHQS SSSNDKDVSRSSLCQYMPDEETPLAAQAYGLSHRDITTIKLLNETRDMLSPDFSTVLN
 TCLNRGFSRLLDNMAEFFRPTEQDLQHNSINLSSVSLPLAKIIPVINGQIHVSCSETPSHFVQLTCGS
 SLRRALEQK

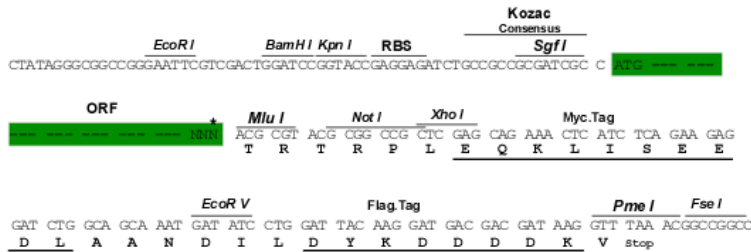
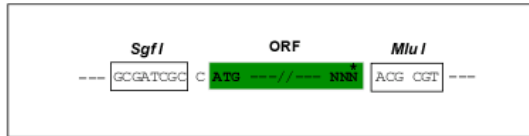
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001164195

ORF Size: 1077 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_001164195.1](#), [NP_001157667.1](#)

RefSeq Size: 1381 bp

RefSeq ORF: 1080 bp

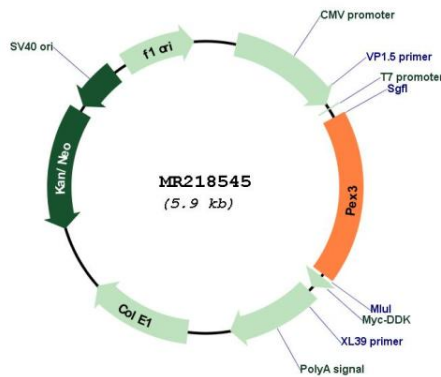
Locus ID: 56535

Cytogenetics: 10 A2

MW: 41.1 kDa

Gene Summary: Involved in peroxisome biosynthesis and integrity. Assembles membrane vesicles before the matrix proteins are translocated. As a docking factor for PEX19, is necessary for the import of peroxisomal membrane proteins in the peroxisomes.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218545