

Product datasheet for **RC208361**

PEX6 (NM_000287) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PEX6 (NM_000287) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PEX6
Synonyms:	HMLR2; PAF-2; PAF2; PBD4A; PDB4B; PXAAA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC208361 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCTGGCTGTCTTGCGGGTCTGGAGCCCTTCCGACCGAGACACCCCGTTGGCAGTGCTGCTGC
 CACCCGGGGGCCGCTGGCCGGCGCGGAGCTGGGCCTGGTGTGGCCCTGAGGCCTGCAGGGGAGAGCCC
 GGCAGGGCCGGCCTGCTGGTGGCAGCCCTGGAGGGGCCGACGCGGGCACCGAAGAGCAGGGTCCCGGG
 CCGCCGACGACTGTTAGCCGCGCTGCTGCGGCTCCTGGCACTGGGCTCCGGGGCCTGGGTGCGGG
 CGCGGGCGGTGCGGCGGCCCGCGCTAGGTTGGGCACTGCTTGGCACCTCGCTGGGCCTGGGCTCGG
 ACCGCGAGTCGGGCCGCTGCTGGTGAAGCGCGGAGAGACCCTCCAGTGCCTGGACCGGGGTGCTGGAG
 ACGCGGCCGGCTTGAAGGGCTGCTGGGCCAGGACTCGGCTGGCTGTGACTGAGCTCCGCGGGCGGG
 CCAGACTGTGTCAGAGTCTGGGACAGCAGTCCGCCCCACCCCGCCCGTGGTGTCTCTTTGCGGT
 TTCTGGCACAGTCCGGCGACTCCAGGGAGTTCTGGGAGGACTGGAGATCACTAGGGGTGAGCCGGAGC
 TGCTCCGTGGCCTTGGCCTCTCCAGGGCGAATGGGTGTGGGTGGCCAGGCCAGAGAGTCATCGAACA
 CTTACAGCCGCACTTGGCTAGGGTGCAGTCTCTAGAACCCTCGCTGGGACCTCTCTGATAGACTGGGACC
 CGGCTCTGGACCGCTGGGAGAGCCCTCGCTGACGGACTGGCGCTTGTCCCTGCCACTTTGGCTTTAAT
 CTTGGCTGTGACCCCTGGAAATGGGAGAGCTCAGAATCAGAGGTACTTGAAGGCTCCATCGCCCTG
 AAGACAAGGAAGCTGCTCATTGCTGCCTGGGCCTCCATTTGCCAGAGAGTTACACATCGAAATGTGTC
 TTCTCCCACTACAGCACTAATGAAATATGACGGTGTCTTTACCGCACTTTAGATACCCAGGGTA
 GTCCAGGAAGGGGATGTTCTATGTGTCACAACAATTGGCAAGTAGAGATCCTGGAAGGAAGTCCAGAGA
 AACTGCCAGGTGGCGGAAATGTTTTAAAGTGAAGAAAACAGTTGGGGAAGCTCCAGATGGACGAGA
 CAGTGCCTACTTGGCCGACACCACCATACCTCCTTGTACATGGTGGGTTCTACCCTGAGCCTGTTCCA
 TGCTCCCTTCCAGAGGAATCCACTCTCTGGAGCAGTTGTCTCCTCCAGGCCTGGAGCCTTGGTGTCTG
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 TCTACGGGGCCCCCAGGCTGTGGGAAGACCACAGTAGTTGCTGCTGCCTGTAGTACCTTGGGCTCCAC
 TTAAGGAGTGCCTGCTCCAGCCTCTGTGCAGAAAGTGTGGGCTGTGGAGACAAAAGTGCAGGCCA
 TCTTCTCCGGGGCCCGCTTGGCGGCTGCAGTCTGTGCTCAGAGTGTGGACCTTCTGGGCCGGGA
 CCGTGATGGGCTGGGTGAGGATGCCCGTGTGATGGCTGTGCTGCGTACCTCCTCTCAATGAGGACCC
 CTAACAGCTGCCCTCCCTCATGGTTGTGGCCACCACAAGCCGGGCCAGGACCTGCCTGCTGATGTGC
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 CCTCACTGCCACCTTCCCTGGGCCAGGAGGTGAACTTGGCACAGCTAGCACGGCGGTGTGACGGCTTT
 GTGGTAGGGGATCTATGCCCTTCTGACCCACAGCAGCCGGGCAGCCTGCACCAGGATCAAGAAGTCAAG
 GTTTGGCAGGTGGCTTACTGAGGAGGATGAGGGGGAGCTGTGTGCTGCCGGCTTTCCTCTCTGGCTGA
 GGACTTTGGGCAGGCACTGGAGCAACTGCAGACAGCTCACTCCAGGCCGTTGGAGCCCCAAGATCCCC
 TCAGTGTCTGGCATGATGTGGTGGGCTGCAGGAGGTGAAGAAGGAGATCCTGGAGACCATTAGCTCC
 CCCTGGAGCACCTGAGCTACTGAGCCTGGGCTGAGACGCTCAGGCCTTCTGCTCCATGGGCCCCCTGG
 CACCGCAAGACCCTTCTGGCCAAGGCAGTACCCTGAGTGCAGCCTTACCTTCTCAGCGTGAAGGGG
 CCAGAGCTCATTAAACATGTATGTGGGCCAAAGTGAAGAGAATGTGCGGGAAGTATTTGCCAGGGCCAGGG
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 GATGTGTTTGTGATTGGAGCCACCAACAGACCAGATCTCCTGGACCCTGCCCTTCTGCGGCTGGCAGAT
 TTGACAAGCTGGTGTGTTGGGGCAAATGAGGACCGGGCCTCCAGCTACGCGTTCTAAGTGCATCAC
 ACGCAAATTAAGCTAGAGCCATCTGTGAGCCTGGTAAACGTGCTAGATTGCTGCCCTCCCAGCTGACG
 GCGCGGACCTTACTCTCTGCTCTGATGCTATGACAGCTGCCCTCAAACGCAGGGTTTACGACCTGG
 AGGAAGGGCTGGAGCCAGGTAGCTCAGCACTGATGCTCACCATGGAGACTTGTGCAGGCTGCCCGCCG
 GCTGCAACCCCTAGTCAGTGAGCAGGAGTGTCCGGTACAAGCGCATCCAGCGCAAGTTTGTGCTGCTGC

AC**GGGCCGC**TCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGA
 TTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC208361 protein sequence
 Red=Cloning site Green=Tags(s)

MALAVLRVLEPFPTETPPLAVLLPPGGPWAAELGLVLALRPAGESPAGPALLVAALEGPDAGTEEQGPG
 PPQLLVSALLRLLALGSGAWVRARAVRRPPALGWALLGTSLGPGLGPRVGPLLVRRETLPVPGPRVLE
 TRPALQGLLGPGRTRAVTELGRARLCPESGDSSRPPPPVSSFAVSGTVRRLQVLLGGTDSLGVSR
 CLRGLGLFQGEVWVAQARESSNTSQPHLARVQVLEPRWDLSDRLGPGSGPLGEPLADGLALVPATLAFN
 LGCDPLEMGELRIQRYLEGSIAPEDKGCSLLPGPPFARELHIEIVSSPHYSTNGNYDGVLYRHFQIPRV
 VQEGDVLVCPVTIGQVEILEGSPEKLPWRWEMFFKVKKTVEAPDGPASAYLADTHTSLYMGSTLSPVP
 WLPSEESTLWSSLSPGLEALVSELCAVLKPRLQPGGALLTGTSSVLLRGGPGGKTTVVAACSHLGLH
 LLKVPCCSLCAESSGAVETKLQAFSRARRCPAVLLLTAVDLLGRDRDGLGEDARVMAVLRHLLNEDP
 LNSCPPLMVVATTSRAQDLADVQTAFPHELEVPALSEGQRLSILRALTAHLPLGQEVNLAQLARRCAGF
 VVGDLYALLTHSSRAACTRIKNSGLAGGLTEDEGELCAAGFPLLAEDFGQALEQLQTAHSQAVGAPKIP
 SVSWHDVGGLEVKKEILETIQLPLEHPELLSLGLRRSGLLLHGPPGTGKTLAKAVATECSLTFLSVKG
 PELINMYVQGSEENVREVFARARAAAAPCIFFDELDLAPSRGRSGDGGVMDRVVSQLLAELDGLHSTQ
 DVFVIGATNRPDLLDPALLRPGFRDKLVFVGANEDRASQRLVLSAITRKFLEPSVSLVNVLDCCPPQLT
 GADLYSLCSDAMTAALKRRVHDLLEEGLPEGSSALMLTMEDLLQAAARLQPSVSEQELLRKRIQRKFAAC

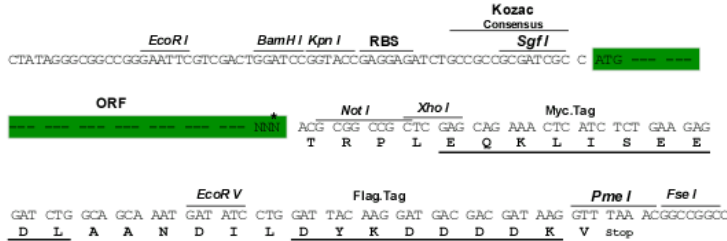
TRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6852_e10.zip

Restriction Sites: SgfI-NotI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



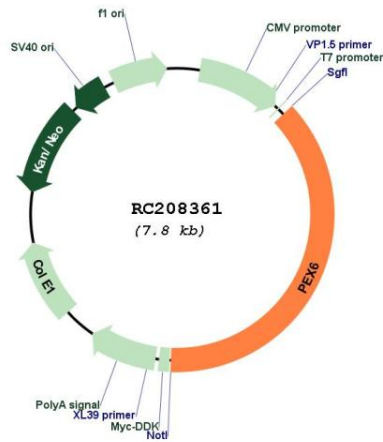
* The last codon before the Stop codon of the ORF

ACCN: NM_000287

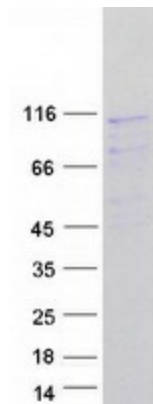
ORF Size: 2940 bp

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:	<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:	NM_000287.4
RefSeq Size:	3514 bp
RefSeq ORF:	2943 bp
Locus ID:	5190
UniProt ID:	Q13608
Cytogenetics:	6p21.1
Domains:	AAA, AAA
Protein Families:	Druggable Genome
MW:	104.1 kDa
Gene Summary:	This gene encodes a member of the AAA (ATPases associated with diverse cellular activities) family of ATPases. This member is a predominantly cytoplasmic protein, which plays a direct role in peroxisomal protein import and is required for PTS1 (peroxisomal targeting signal 1, a C-terminal tripeptide of the sequence ser-lys-leu) receptor activity. Mutations in this gene cause peroxisome biogenesis disorders of complementation group 4 and complementation group 6. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2015]

Product images:



Circular map for RC208361



Coomassie blue staining of purified PEX6 protein (Cat# [TP308361]). The protein was produced from HEK293T cells transfected with PEX6 cDNA clone (Cat# RC208361) using MegaTran 2.0 (Cat# [TT210002]).