

Product datasheet for RC201115

PEX16 (NM_004813) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PEX16 (NM_004813) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PEX16
Synonyms:	PBD8A; PBD8B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201115 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGAAGTGC GGCTCCTGGGCTCCGCTACCAGGAGTACGTGACTCGTCACCCGGCCGCCACGGCCC
AGCTGGAGACAGCAGTGC GGGGCTTCAGTTACCTGCTGGCAGGTCGATTCGCCGATTCGCACGAGCTGTC
AGAGCTGGTGTACTCTGCCTCTAACCTGCTTGTGCTGCTCAATGACGGGATCCTACGGAAGGAGCTTCGG
AAAAAGTTGCCTGTGCTGCTGTCCAGCAGAAGCTGCTGACATGGCTGAGCGTGTGGAGTGCCTGGAGG
TGTTTCATGGAGATGGGAGCTGCCAAGGTGTGGGTGAAGTGGCCGCTGGCTTGTTCATCGCCCTCATCCA
GCTGGCCAAGGCTGTACTGCGGATGCTCCTGCTGCTCTGGTTCAAGGCTGGCTCCAGACTTCACCCCT
ATCGTTCCACTGGACAGAGAGACCCAGGCACAGCCCCGGATGGTGACCACAGCCCTGGCAACCATGAGC
AGTCTACGTGGGAAGCGGTCAAACCGGGTGGTGCAGAACCTCCAGAACACGCCGTCCCTGCACTCCAG
GCACTGGGGAGCTCCCCAGCAGCGGGAGGGACGGCAGCAGCAGCATCACGAGGAGCTGAGTGCAGCCCC
ACCCCTGGGGCTGCAGGAGACCATCGCAGAGTTTTTGTACATTGCCCGGCCGCTGCTGCACTTGCTCA
GCCTGGGCTGTGGGTGAGAGTGTGAAACCTGGCTCTGGCTGGTGTGGACGTGACCAGCCT
GAGCCTCCTGAGTGACAGAAAGGGCTGACCCGGAGGGAGCGGGGAGCTGCGGCGCCGGACCATCCTG
CTGCTCTACTACCTGCTGCGCTCTCCTTTCTACGACCGCTTCTCCGAGGCCAGGATCCTCTTCTGCTCC
AGTTGCTGGCCGACCACGTCCCTGGCGTTGGCTGGTCAACAAGGCCGCTCATGGATTACTTGCCACCTG
GCAGAAATCTACTTCTACAGTTGGGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC201115 protein sequence
Red=Cloning site Green=Tags(s)

MEKLRLLGLRYQEYVTRHPAATAQLETAVRGF SYLLAGRFADSHSELVYSASNLLVLLNDGILRKELR
 KKLPSVLSQQKLLTWLSVLECEVFMEMGAAKVWGEVGRWLVI ALIQLAKAVLRMLLLLWFKAGLQTSPP
 IVPLDRETQAQPPDGDHSPGNHEQSYVVKRSNRVVRTLQNTPSLH SRHWGAPQQREGROQQHHEELSATP
 TPLGLQETIAEFLYIARPLLHLLSLGLWGQRSWKPWLLAGVVDVTSLSLLSDRKGLTRRERRELRRTIIL
 LLYYLLRSPFYDRFSEARILFLLQLLADHVPGLVTRPLMDYLPWQKIYFYSWG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6402_d02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004813

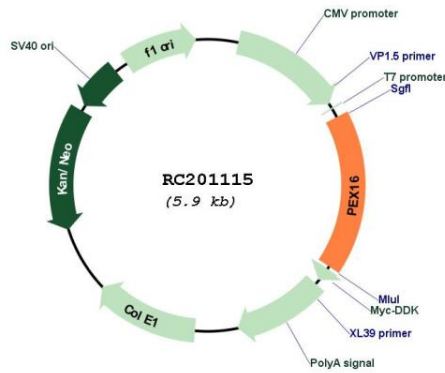
ORF Size: 1008 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

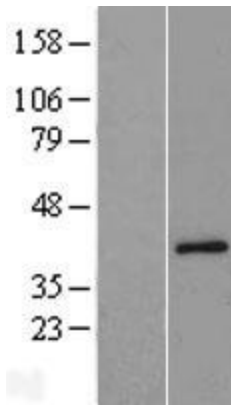
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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_004813.1 , NP_004804.1
RefSeq Size:	1929 bp
RefSeq ORF:	1011 bp
Locus ID:	9409
UniProt ID:	Q9Y5Y5
Cytogenetics:	11p11.2
MW:	38.6 kDa
Gene Summary:	The protein encoded by this gene is an integral peroxisomal membrane protein. An inactivating nonsense mutation localized to this gene was observed in a patient with Zellweger syndrome of the complementation group CGD/CG9. Expression of this gene product morphologically and biochemically restores the formation of new peroxisomes, suggesting a role in peroxisome organization and biogenesis. Alternative splicing has been observed for this gene and two variants have been described. [provided by RefSeq, Jul 2008]

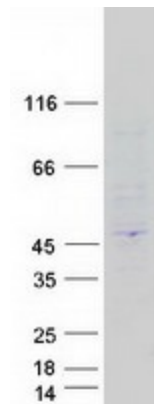
Product images:



Circular map for RC201115



Western blot validation of overexpression lysate (Cat# [LY417729]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201115 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PEX16 protein (Cat# [TP301115]). The protein was produced from HEK293T cells transfected with PEX16 cDNA clone (Cat# RC201115) using MegaTran 2.0 (Cat# [TT210002]).