

Product datasheet for **RG201115**

PEX16 (NM_004813) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PEX16 (NM_004813) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PEX16
Synonyms: PBD8A; PBD8B
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG201115 representing NM_004813
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGAAGCTGCGGCTCCTGGGCTCCGCTACCAGGAGTACGTGACTCGTCACCCGGCCGCCACGGCCC
 AGCTGGAGACAGCAGTGCAGGGCTTACGTTACCTGCTGGCAGGTCGATTCGCCGATTCGCACGAGCTGTC
 AGAGCTGGTGTACTCTGCCTCTAACCTGCTTGTGCTGCTCAATGACGGGATCCTACGGAAGGAGCTTCGG
 AAAAAGTTGCCTGTGCTGCTGTCCAGCAGAAGCTGCTGACATGGCTGAGCGTGTGGAGTGCCTGGAGG
 TGTTTCATGGAGATGGGAGCTGCCAAGGTGTGGGTGAAGTGGCCGCTGGCTTGTGCATCGCCCTCATCCA
 GCTGGCCAAGGCTGTACTGCGGATGCTCCTGCTGCTCTGGTTCAAGGCTGGCCTCCAGACTTCACCCCT
 ATCGTTCCACTGGACAGAGAGACCCAGGCACAGCCCCGGATGGTGACCACAGCCCTGGCAACCATGAGC
 AGTCTACGTGGGAAGCGGTCAAACCGGGTGGTGCAACCCCTCCAGAACACGCCGTCCCTGCACTCCAG
 GCACTGGGAGCTCCCCAGCAGCGGGAGGGACGGCAGCAGCATCACGAGGAGCTGAGTGGCAGCCCC
 ACCCCCTGGGGCTGCAGGAGACCATCGCAGAGTTTTTGTACATTGCCCGGCCGCTGCTGCACTTGTCTA
 GCCTGGGCTGTGGGTGAGAGTGTGAAACCTGGCTCTGGCTGGTGTGGACGTGACCAGCCT
 GAGCCTCTGAGTGACAGAAAGGGCTGACCCGGAGGGAGCGGGGAGCTGCGGCGCCGGACCATCCTG
 CTGCTCTACTACCTGCTGCGCTCCTTTCTACGACCGTTCTCCGAGGCCAGGATCCTCTTCTGCTCC
 AGTTGCTGGCCGACCACGTCCCTGGCGTTGGCCTGGTCAACAAGGCCGCTCATGGATTACTTGCCACCTG
 GCAGAAATCTACTTCTACAGTTGGGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201115 representing NM_004813
 Red=Cloning site Green=Tags(s)

MEKLRLLGLRYQEYVTRHPAATAQLETAVRGF SYLLAGRFADSHSELVYSASNLLVLLNDGILRKELR
 KKL PVSLSQQKLLTWLSVLECEVFMEMGAAKVWGEVGRWLVI ALIQLAKAVLRMLLLWFKAGLQTSPP
 IVPLDRETQAQPPDGDHSPGNHEQSYVKGKRSNRVVRTLQNTPSLH SRHWGAPQQREGRQQQHHEELSATP
 TPLGLQETIAEFLYIARPLLHLLSLGLWGQRSWKPWLLAGVVDVTSLSLLSDRKGLTRRERRELRRTIIL
 LLYYLLRSPFYDRFSEARILFLLQLLADHVPVGLVTRPLMDYLPWQKIYFYSWG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004813

ORF Size: 1008 bp

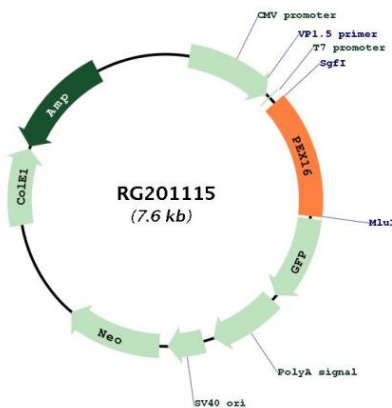
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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:	<u>NM_004813.1, NP_004804.1</u>
RefSeq Size:	1361 bp
RefSeq ORF:	1011 bp
Locus ID:	9409
UniProt ID:	<u>Q9Y5Y5</u>
Cytogenetics:	11p11.2
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 RG201115