

Product datasheet for **RG201813**

PEX16 (NM_057174) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PEX16 (NM_057174) 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:	>RG201813 representing NM_057174 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGAAGCTGCGGCTCCTGGGCTCCGCTACCAGGAGTACGTGACTCGTCACCCGGCCGCCACGGCCC
AGCTGGAGACAGCAGTGCAGGGCTTACGTTACCTGCTGGCAGGTCGATTCGCCGATTTCGCACGAGCTGTC
AGAGCTGGTGTACTCTGCCTCTAACCTGCTTGTGCTGCTCAATGACGGGATCCTACGGAAGGAGCTTCGG
AAAAAGTTGCCTGTGCTGCTGTCCAGCAGAAGCTGCTGACATGGCTGAGCGTGTGGAGTGCCTGGAGG
TGTTTCATGGAGATGGGAGCTGCCAAGGTGTGGGTGAATTGGCCGCTGGCTTGCATCGCCCTCATCCA
GCTGGCCAAGGCTGTACTGCGGATTCTCCTGCTGCTCTGGTTCAAGGCTGGCCTCCAGACTTCACCCCT
ATCGTTCCACTGGACAGAGAGACCCAGGCACAGCCCCGGATGGTGACCACAGCCCTGGCAACCATGAGC
AGTCTACGTGGGAAGCGGTCAAACCGGGTGGTGCAGAACCTCCAGAACACGCGCTCCCTGCACTCCAG
GCACTGGGGAGCTCCCCAGCAGCGGGAGGGACGGCAGCAGCATCACGAGGAGCTGAGTGCAGCCCC
ACCCCTGGGGCTGCAGGAGACCATCGCAGAGTTTTTGTACATTGCCCGGCCGCTGCTGCACTTGCTCA
GCCTGGGCTGTGGGTGAGAGTGTGAAACCTGGCTCTGGCTGGTGTGGACGTGACCAGCCT
GAGCCTCCTGAGTGACAGAAAGGGCTGACCCGGAGGGAGCGGGGAGCTGCGGCGCCGGACCATCCTG
CTGCTCTACTACCTGCTGCGCTCTCCTTCTACGACCGTTCTCCGAGGCCAGGATCCTCTCTGCTCC
AGTTGCTGGCCGACCACGTCCCTGGCGTTGGCCTGGTCAACGTCACAGCGTCCAGCGTCCGCTCTCCGTGCCT
ACCGGCCAGCCCCACACAGCCCTGGTCGCCACCAGCGTTCTCCAGGACACCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201813 representing NM_057174
 Red=Cloning site Green=Tags(s)

MEKLRLGLRYQEYVTRHPAATAQLETAVRGSYLLAGRFADSHSELVYSASNLLVLLNDGILRKELR
 KKLPSVLSQQKLLTWLSVLECEVFMEMGAAKVWVWELGRWLVIALLQAKAVLRILLWFKAGLQTSPP
 IVPLDRETQAQPPDGDHSPGNHEQSYVVKRSNRVVRTLQNTPSLHSHRWGAPQQREGROQHHEELSATP
 TPLGLQETIAEFLYIARPLLHLLSLGLWGQRSWKPWLLAGVVDVTSLSLLSDRKGLTRRERRELRRTIIL
 LLYYLLRSPFYDRFSEARILFLLQLLADHVPVGLVTTSSQRAASPCLPARPHTQPWSPPAFLPGHP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_057174

ORF Size: 1038 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_057174.1](#), [NP_476515.1](#)

RefSeq Size: 1726 bp

RefSeq ORF: 1041 bp

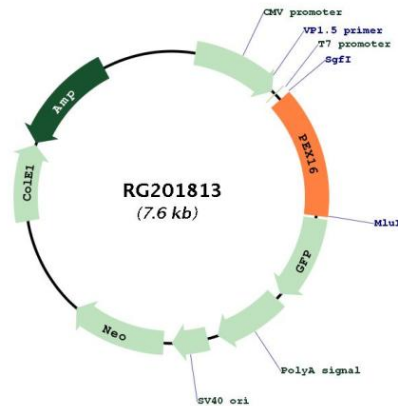
Locus ID: 9409

UniProt ID: [Q9Y5Y5](#)

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 RG201813