

## Product datasheet for **RG202036**

### PEX10 (NM\_002617) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PEX10 (NM\_002617) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** PEX10  
**Synonyms:** NALD; PBD6A; PBD6B; RNF69  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG202036 representing NM\_002617  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCCCGGCCGCCAGCCCCCGGAGGTGATCCGCGCGGCGCAGAAGGACGAGTACTACCGCGGTG  
 GGCTGCGGAGCGCGGGCGGCCCTGCACAGCCTGGCGGTGCGAGGAAGTGGCTGGAGTGGAGGAA  
 GGAGGTTGAGCTGCTCTCAGATGTGGCCTACTTTGGCCTCACCACACTTGCAGGCTACCAGACCCTGGG  
 GAGGAGTACGTCAGCATCATCCAGGTGGACCCATCGCGGATACATGTGCCCTCCTCGCTGCGCCGTGGCG  
 TGCTGGTGACACTGCATGCCGTCTGCCCTACCTGCTGGACAAGGCCCTGCTCCCCCTGGAGCAGGAGCT  
 GCAGGCTGACCCGACAGTGGGCGACCCTTGACAGGGGAGCCTGGGGCCAGGTGGGCGTGGCTGCTCAGGG  
 GCGCGGCGCTGGATGCGTCACCACACGGCCACCCTGACTGAGCAGCAGAGGAGGGCGCTGCTGCGGGCGG  
 TCTTCGTCCTCAGACAGGGCCTCGCCTGCCCTCCAGCGGCTACATGTTGCCTGGTTTTACATCCACGGTGT  
 CTTCTACCACCTGGCCAAGAGGCTCACGGGATCACGTACCTCCGTGCCGAGCCTGCCCGGAGAGGAC  
 CTGAGGGCCCGTGTAGCTACAGGCTGCTGGGGTTCATCTCACTGCTGCACCTGGTGTGTCATGGGGC  
 TGCAGTGTACGGTTTCAGGCAGCGCAGCGAGCCAGGAAGGAGTGGAGGCTGCACCGCGGCTGTCTCA  
 CCGCAGGGCCTCCTTGGAGGAGAGAGCCGTTTCCAGAAACCCCTGTGCACCTGTGCCTGGAGGAGCGC  
 AGGCACCAACAGCCACGCCCTGCGGCCACCTGTTCTGCTGGGAGTGCATCACCGCGTGGTGCAGCAGCA  
 AGCGGGAGTGTCCCTCTGCCGGAGAAGTTCCTCCCCAGAAGCTCATCTACCTTCGGCCACTACCGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG202036 representing NM\_002617  
 Red=Cloning site Green=Tags(s)

MAPAAASPPEVIRAAQKDEYYRGGRLSAAGGALHSLAGARKWLEWRKEVELLSDVAYFGLTTLAGYQTLG  
 EEYYSIIQVDPSRIHVPSSLRRGVLVTLHAVLPYLLDKALLPLEQELQADPDSGRPLQGS LGPGGRGCSG  
 ARRWMRHHTATLTEQRRALLRAVFVLRQGLACLQRLHVAWFYIHGVFYLAKRLTGITYLRVRS LPGA  
 LRARVSYRLLGVISLLHLVLSMGLQLYGFRRQRARKEWRLHRGLSHRRASLEERAVSRNPLCTLCL  
 EER RHPATPCGHLFCWECITAWCSSKAECPLCREKFPQKLIYLRHYR

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_002617

**ORF Size:** 978 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\\_002617.4](#)

**RefSeq Size:** 2034 bp

**RefSeq ORF:** 981 bp

**Locus ID:** 5192

**UniProt ID:** [O60683](#)

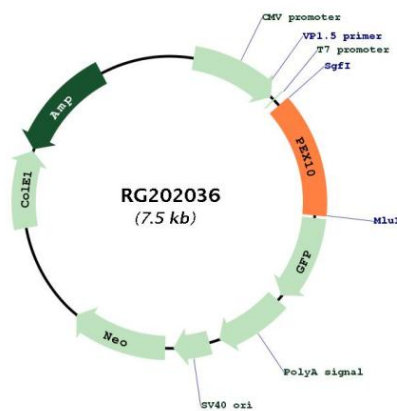
**Cytogenetics:** 1p36.32

**Domains:** RING, Pex2\_Pex12

**Protein Families:** Druggable Genome, Transmembrane

**Gene Summary:** This gene encodes a protein involved in import of peroxisomal matrix proteins. This protein localizes to the peroxisomal membrane. Mutations in this gene result in phenotypes within the Zellweger spectrum of peroxisomal biogenesis disorders, ranging from neonatal adrenoleukodystrophy to Zellweger syndrome. Alternative splicing results in two transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG202036