

## Product datasheet for **RG202432**

### PEX7 (NM\_000288) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PEX7 (NM_000288) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PEX7
Synonyms:	PBD9B; PTS2R; RCDP1; RD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202432 representing NM_000288 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTGCGGTGTGCGGTGGAGCGGCGCGGATGCTGCGGACGCCGGGACGCCACGGCTACGCCGCCGAGT  
TCTCCCGTACCTGCCGGGCCGCTGGCTGCGCCACCGCGCAGCACTACGGCATCGCGGCTGTGGAAC  
CCTACTAATATTGGATCCAGATGAAGCTGGGCTAAGGCTTTTTAGAAGCTTTGACTGGAATGATGGTTG  
TTTGATGTGACTTGGAGTGAGAACAACGAACATGTCCTCATCACCTGTAGTGGCGATGGCTCGCTGCAGC  
TCTGGGACACTGCCAAAGCTGCAGGGCCACTGCAAGTCTATAAAGAACACGCTCAGGAGGTGATAGTGT  
TGATTGGAGCAAACAGAGGTGAACAGCTTGTGGTGTCTGGCTCATGGGATCAAAGTGTCAAATTTGG  
GATCCAAGTGTGGAAAGTCTCTGTGCACCTTTAGAGGCCATGAAAGTATTATTTATAGCACAATCTGGT  
CTCCCCACATCCCTGGTTGTTTTGCTTCAGCCTCAGGTGATCAGACTCTGAGAATATGGGATGTGAAGGC  
AGCAGGAGTAAGAATCGTGATTCCTGCACATCAGGCAGAAATCTTGAGTTGTGACTGGTGTAAATACAAT  
GAGAATTTGCTGGTGACCGGGCGGTTGACTGTAGTTTGAGAGGCTGGGACTTAAGGAATGTACGACAAC  
CAGTGTGTAACCTTTGGTCACTACCTATGCTATTAGGAGGTGAAATTTCCACATTTTCATGCTTCTGT  
GCTGGCCTCTTGCTCGTATGATTTTACTGTAAGATTCTGGAACTTTTCAAAGCCTGACTCTTCTTGAA  
ACAGTGGAGCATCATAACAGAGTTTACTTGTGGTTTAGACTTCAGTCTTCAGAGCCCCACTCAGGTGGCTG  
ACTGTTCTTGGGATGAAACAATAAGATCTATGACCCTGCTTGTCTTACTATTCTGCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

**Protein Sequence:** >RG202432 representing NM\_000288  
Red=Cloning site Green=Tags(s)

MSAVCGGAARMLRTPGRHGAAEFSPYLPGLACATAQHYGIAGCGTLLILDPEAGLRLFRSFDWNDGL  
 FDVTWSENNEHVLITCSGDGSLQLWDTAKAAGPLQVYKEHAQEVYSVDWSQTRGEQLVVSWSWDQTVKWLW  
 DPTVGKSLCTFRGHESIIYSTIWSPHIPGCFASASGDQTLRIWDVKAAGVRIVIPAHQAEILSCDWCKYN  
 ENLLVTGAVDCSLRGWDLRNVQRQPVFELLGHTYAIRRVKFSPFHASVLASCSYDFTVRFWNFSKPDLSLE  
 TVEHHTFEFTCGLDLDFSLQSPQVADCSWDETIKIYDPACLTIPA

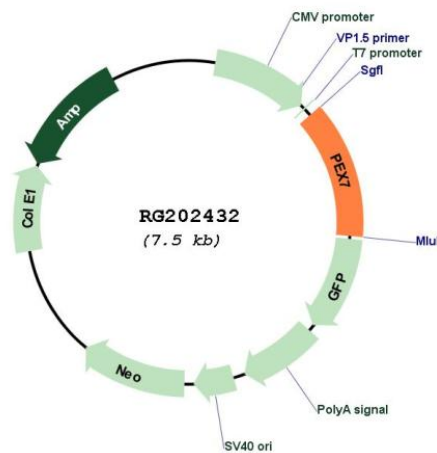
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_000288

**ORF Size:** 969 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_000288.4</a>
<b>RefSeq Size:</b>	1451 bp
<b>RefSeq ORF:</b>	972 bp
<b>Locus ID:</b>	5191
<b>UniProt ID:</b>	<a href="#">O00628</a>
<b>Cytogenetics:</b>	6q23.3
<b>Domains:</b>	WD40
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	<p>This gene encodes the cytosolic receptor for the set of peroxisomal matrix enzymes targeted to the organelle by the peroxisome targeting signal 2 (PTS2). Defects in this gene cause peroxisome biogenesis disorders (PBDs), which are characterized by multiple defects in peroxisome function. There are at least 14 complementation groups for PBDs, with more than one phenotype being observed in cases falling into particular complementation groups. Although the clinical features of PBD patients vary, cells from all PBD patients exhibit a defect in the import of one or more classes of peroxisomal matrix proteins into the organelle. Defects in this gene have been associated with PBD complementation group 11 (PBD-CG11) disorders, rhizomelic chondrodysplasia punctata type 1 (RCDP1), and Refsum disease (RD). [provided by RefSeq, Oct 2008]</p>