

Product datasheet for **RG201900**

PEX26 (NM_017929) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	PEX26
Synonyms:	PBD7A; PBD7B; PEX26MIT; Pex26pMIT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG201900 representing NM_017929
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGAGCGATTCTTCGACCTCTGCAGCCCCCTCAGGGGGCTCGGGGACCCCTGCGCAGCAGCGAGC
CGGTGCGCGCGGTCCCGGCCCGGGCGCCGCGCTGGACCTTCTGGAGGAGCGGCCGACCTCCTGGTGGT
GCACCTGGACTTCGGGCGGCGCTGGAGACCTGCGAGCGGGCTGGCAGAGTCTGGCCAACACGCCGTG
GCAGAGGAACCGCGGGCACCTCATTGGAGGTGAAGTGCTCCCTGTGTGTGTGGGGATCCAGGCCCTGG
CAGAAATGGATCGGTGGCAAGAAGTCTCTCCTGGGTCTTCAGTATTACCAGGTCCCTGAAAAGCTACC
CCCCAAAGTCTGGAGCTGTGCATTCTTTATACAGCAAAATGCAAGAGCCTGGAGCTGTGCTGGATGTG
GTGGGTGCCTGGCTCCAAGACCCAGCCAATCAAAACCTTCAGAAATATGGAGCCTTGGCAGAATTCACG
TGCAGCGGGTGTGCTGCCTCTGGGCTGCTATCGGAGGCTGAGGAGCTAGTGGTGGGCTCTGCAGCCTT
TGGTGAGGAGCGGCGACTGGATGTACTTCAGGCCATTACACAGCGAGGCGAGCAGCAGAAACAGGAACAC
TCAGGCTCTGAGGAGGCCAGAACCAACCTGGAAGGCTCTGTCTCCCAAGTTCCTGTCACTACCGA
TGTTGGTTCGCCAGCTTTGGGACTCTGCGGTGAGCCACTTCTTTCTCTGCCCTTCAAAAAGAGTCTCCT
GGCTGCCTTGATCCTCTGTCTCCTGGTGGTGAGATTTGATCCAGCTTCCCTTCTCCTCCTGCACTTCCTC
TACAAGCTGGCCAGCTTTCGCTGGATCCGAAGGCTGCATTTCTCGCCTCTACCAGCTCCGCATCC
ATGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG201900 representing NM_017929
Red=Cloning site Green=Tags(s)

MKSDSSTSAAPLRGLGGPLRSSEPVRAVPARAPAVDLLLEEAADLLVVHLDFAALETCEAWQSLANHAV
AEEPAGTSLEVKCSL CVVGIQALAE MDRWQEVLSWVLQYYQVPEKLPPKVLELCILLYSKMQEPGAVLDV
VGAWLQDPANQNLPEYGALAEFHVQRVLLPLGCLSEAEELVVGSAFGEERRLDVLQAIHTARQQKQEH
SGSEEAQKPNLEGSVSHKFLSLPMLVRQLWDSAVSHFFSLPFKKSLLAALILCLLVVRFDPA SPSSLHFL
YKLAQLFRWIRKAAF SRLYQLRIHD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGTCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - -

--- GAA GAA AGA GTT TAA ACGGCCGGCCGCGGAGCT

- - E E R V Stop

ACCN: NM_017929

ORF Size: 915 bp

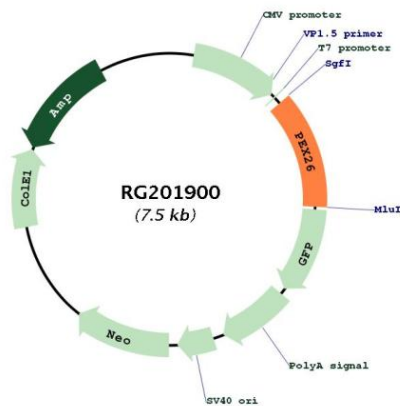
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_017929.3, NP_060399.1</u>
RefSeq Size:	2474 bp
RefSeq ORF:	918 bp
Locus ID:	55670
UniProt ID:	<u>Q7Z412</u>
Cytogenetics:	22q11.21
Gene Summary:	This gene belongs to the peroxin-26 gene family. It is probably required for protein import into peroxisomes. It anchors PEX1 and PEX6 to peroxisome membranes, possibly to form heteromeric AAA ATPase complexes required for the import of proteins into peroxisomes. Defects in this gene are the cause of peroxisome biogenesis disorder complementation group 8 (PBD-CG8). PBD refers to a group of peroxisomal disorders arising from a failure of protein import into the peroxisomal membrane or matrix. The PBD group is comprised of four disorders: Zellweger syndrome (ZWS), neonatal adrenoleukodystrophy (NALD), infantile Refsum disease (IRD), and classical rhizomelic chondrodysplasia punctata (RCDP). Alternatively spliced transcript variants have been identified for this gene. [provided by RefSeq, Dec 2010]

Product images:



Circular map for RG201900