

Product datasheet for **RG225429**

PEX26 (NM_001127649) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PEX26 (NM_001127649) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PEX26
Synonyms:	PBD7A; PBD7B; PEX26M1T; Pex26pM1T
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG225429 representing NM_001127649 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGAAGAGCGATTCTTCGACCTCTGCAGCCCCCTCAGGGGGCTCGGGGACCCCTGCGCAGCAGCGAGC
 CGGTGCGCGCGGTCCCGGCCGGCGCCGGCGTGGACCTTCTGGAGGAGCGGCCGACCTCCTGGTGGT
 GCACCTGGACTTCCGGGCGGCGCTGGAGACCTGCGAGCGGGCTGGCAGAGTCTGGCCAACCACGCCGTG
 GCAGAGGAACCCGCGGCACCTCATTGGAGGTGAAGTGCTCCCTGTGTGTGTGGGGATCCAGGCCCTGG
 CAGAAATGGATCGGTGGCAAGAAGTCTCTCCTGGGTCTTCAGTATTACCAGGTCCCTGAAAAGCTACC
 CCCCAAAGTCTGGAGCTGTGCATTCTTTATACAGCAAAATGCAAGAGCCTGGAGCTGTGCTGGATGTG
 GTGGGTGCCTGGCTCCAAGACCCAGCCAATCAAAACCTTCCAGAATATGGAGCCTTGGCAGAATTTACG
 TGCAGCGGGTGTGCTGCCTCTGGGCTGCTATCGGAGGCTGAGGAGCTAGTGGTGGGCTCTGCAGCCTT
 TGGTGAGGAGCGGCGACTGGATGTACTTCAGGCCATTACACAGCGAGGCAGCAGAGCAAAACAGGAACAC
 TCAGGCTCTGAGGAGGCCAGAACCAACCTGGAAGGCTCTGTCTCCACAAGTTCTGTCACTACCGA
 TGTTGGTTCGCCAGCTTTGGGACTCTGCGGTGAGCCACTTCTTTCTCTGCCCTTCAAAAAGAGTCTCCT
 GGCTGCCTTGATCCTCTGTCTCCTGGTGGTGAGATTGATCCAGCTTCCCTTCCCTCCCTGCACTTCCTC
 TACAAGCTGGCCAGCTTCCGCTGGATCCGAAGGCTGCATTTCTCGCCTCTACCAGCTCCGCATCC
 GTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG225429 representing NM_001127649

Red=Cloning site Green=Tags(s)

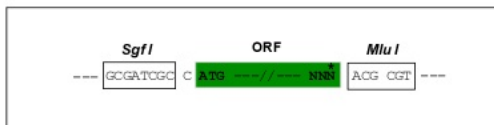
MKSDSSTSAAPRLRGLGGPLRSSEPVRAVPARAPAVDLLLEEADLLVVHLDFRAALETCERAWQSLANHAV
 AEEPAGTSLEVKCSLCVVGIQALAEMDRWQEVLSWVLQYYQVPEKLPPKVLLELCILLYSKMQEPGAVLDV
 VGAWLQDPANQNLPEYGALAEFHVQRVLLPLGCLSEAEELVVGSAAFGEERRDLVQLAIHTARQQQKQEH
 SGSEEAQKPNLEKQSVSHKFLSLPLMVRLQWDSAVSHFFSLPFKKSLLAALILCLVVRFDPAASPSSLHFL
 YKLAOLFRWIRKAASFSLYOLRIRD

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Kozak
Consensus

EcoRI BamHI KpnI RBS SgfI AscI

CTATAGGGCGGCGGAATTCGTCACTGGATCCGGTACCGAGGAGATCTCGCGCCGCATGCCGGCGCGCCAGATCT

HindIII NheI RsrII MluI NotI XhoI GFP Tag

CAAGCTTAAGTAGCTAGCGGACCG ACG CGT ACG GCG CCG CTC GAG ATG GAG AGC GAC --- --

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

PmeI FseI

--- -- GAA GAA AGA GTT TAA ACGGCGGCGCGGAGCT

- - - E E R V Slen

ACCN: NM 001127649

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.

RefSeq: [NM_001127649.3](#)

RefSeq Size: 2758 bp

RefSeq ORF: 918 bp

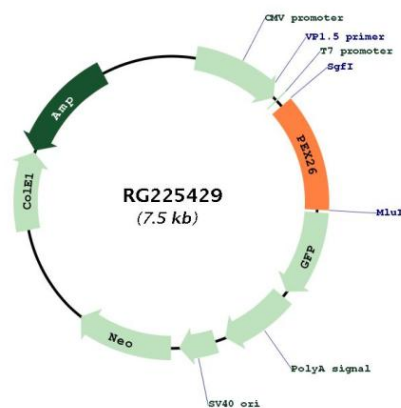
Locus ID: 55670

UniProt ID: [Q7Z412](#)

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 RG225429