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Product datasheet for RG206293

PEX12 (NM_000286) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PEX12 (NM_000286) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PEX12
Synonyms:	PAF-3; PBD3A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG206293 representing NM_000286
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGAGCACGGGGCTCACTTCACAGCTGCTTCTGTGGCCGATGACCAGCCATCCATCTTTGAGGTGG
TAGCACAGGACAGTTTAATGACAGCAGTGAGACCCGCTCTTCAGCATGTGGTCAAGGTTCTTGCAGAATC
AAATCCCACCCACTATGGCTTCTTGTGGAGGTGGTTTGATGAAATCTTTACTCTGCTAGATCTTCTGCTC
CAGCAACATTATCTGTCTAGAACCAGTGCCTCATTTTCTGAAAACTTTTACGGCTTAAAGAGAATTGTAA
TGGGGGACACTCACAAGTCTCAGAGATTGGCTAGTGCTGGTCTCCCAAAGCAGCAGCTTTGGAAATCTAT
TATGTTCCTGGTTCTTCTTCCCTATCTGAAAGTGAAGCTGGAGAAGCTGGTTTCTAGCTTGAGAGAAGAG
GATGAATATTCTATTCATCCCCCTTCTTCCCGCTGGAAACGATTTTACAGAGCTTTCCTGGCAGCCTACC
CATTTGTGAACATGGCCTGGGAAGGATGGTTTCTTGTACAACAACTTCGATACATCCTAGGAAAAGCTCA
GCATCACTCACCACTGCTGAGGCTGGCTGGAGTTCAGCTAGGTCGACTGACAGTTCAGGATATACAAGCT
CTGGAGCACAAACCAGCTAAGGCCAGCATGATGCAGCAACCAGCCAGGAGTGTTAGTGAGAAGATAAACT
CAGCTCTGAAGAAAGCTGTTGGGGGTGTTGCCTTATCCCTGTCTACTGGCCTTTCTGTGGGTGTATTCTT
CTTGCAGTTCCTTGACTGGTGGTACTCATCTGAAAATCAAGAAACCATCAAGTCATTGACTGCCCTGCCT
ACTCCACCACCACCTGTACACCTAGACTATAACTCTGATTCTCCCCTCTTACCCAAAATGAAGACTGTGT
GCCCACTGTGTCGTAAAACCCGGGTGAATGATACTGTTCTTGCCACCTCTGGCTATGTGTTTTGTTACCG
CTGTGTGTTTCATTATGTGAGGAGTCACCAAGCTTGTCCCATCACAGGTTATCCAACAGAAGTACAACAT
CTGATTAAACTCTACTCCCCTGAGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

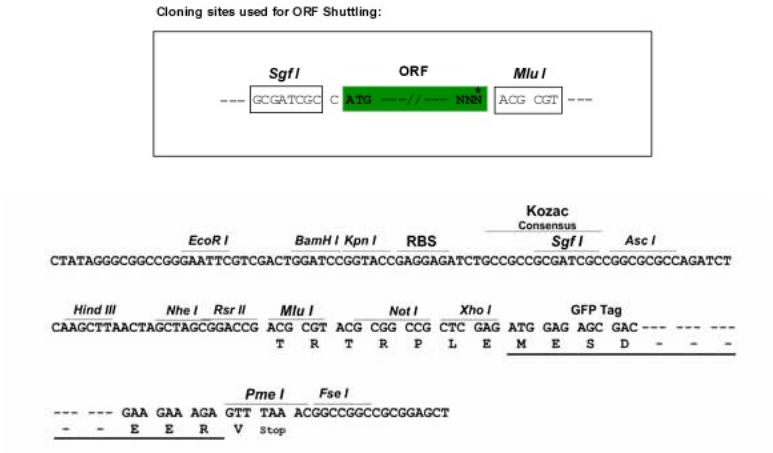
>RG206293 representing NM_000286
Red=Cloning site Green=Tags(s)

MAEHGAHFTAASVADDQPSIFEVVAQDSLMTAVRPALQHVVKVLAESNPTHYGFLWRWFDEIFTLLDLLL
QQHYLSRTSASFSENFYGLKRIVMGDTHKSQRLASAGLPKQQLWKSIMFLVLLPYLKVKLEKLVSSLREE
DEYSIHPPSSRWKRFYRAFLAAYPFVNMAWEGWFLVQQLRYILGKAQHHSPLLRLAGVQLGRLTVQDIQA
LEHKPAKASMMQQPARSVSEKINSALKKAVGGVALSLSTGLSVGVFFLQFLDWWYSSENQETIKSLTALP
TPPPPVHLDYNSDSPLLPKMKTVCPLCRKTRVNDTVLATSGYVFCYRCVFHYVRSHQACPITGYPTEVQH
LIKLYSPEN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000286

ORF Size: 1077 bp

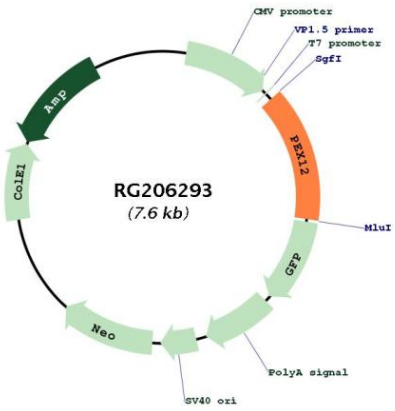
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	NM_000286.1, NP_000277.1
RefSeq Size:	2609 bp
RefSeq ORF:	1080 bp
Locus ID:	5193
UniProt ID:	O00623
Cytogenetics:	17q12
Domains:	Pex2_Pex12
Gene Summary:	This gene belongs to the peroxin-12 family. Peroxins (PEXs) are proteins that are essential for the assembly of functional peroxisomes. The peroxisome biogenesis disorders (PBDs) are a group of genetically heterogeneous autosomal recessive, lethal diseases characterized by multiple defects in peroxisome function. The peroxisomal biogenesis disorders are a heterogeneous group with at least 14 complementation groups and with more than 1 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 are a cause of Zellweger syndrome (ZWS). [provided by RefSeq, Oct 2008]

Product images:



Circular map for RG206293