

Product datasheet for **RG218196**

PEX2 (NM_000318) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PEX2 (NM_000318) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PEX2
Synonyms:	PAF1; PBD5A; PBD5B; PMP3; PMP35; PXMP3; RNF72; ZWS3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG218196 representing NM_000318 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTCCAGAAAAGAGAATGCGAAGAGTGCAACAGAGTGCTAAGAATAAGCCAGTTGGATGCACTTG
AACTAAACAAGGCCCTGGAGCAGCTAGTTTGGTCCCAGTTTACTCAGTGCCTTCATGGATTTAAACCTGG
GCTGTTAGCTCGCTTTGAGCCAGAGGTGAAAGCGTGCTTATGGGTTTTCTGTGGAGATTCACCATCTAC
TCCAAAAATGCCACAGTGGGACAGTCAGTTTTGAATATTAAGTACAAAAATGATTTTTCCCTAACCTGA
GATATCAGCCACCCAGTAAAAATCAAAAAATCTGGTATGCTGTTTGTACAATTGGTGGCAGTGGTTAGA
AGAACGATGCTATGATTTGTTTCGAAACCATCATTAGCATCATTGGGAAAGTCAAGCAGTGTGTGAAT
TTTGTGATTGGACTTTTGAAATTAGGTGGGCTGATTAATTTTTGATTTTCTTCAGAGGGGAAAGTTTG
CACTTTGACAGAACGTCTCCTAGGTATTCATTCTGTATTTTGAAGCCTCAAAACATACGTGAAGTTGG
CTTTGAATACATGAATAGGGAACCTCTCTGGCATGGTTTTGCTGAATTTCTGATTTTCTTACCCTT
ATCAATGTCCAGAAGTTGAAAGCCAAGCTGTCTCATGGTGTATTCCTCTACTGGTGCACCTAATAGTG
ACAATACATTAGCCACCAGTGGCAAAGAATGCGCTCTATGTGGAGAGTGGCCACCATGCCTCACCCAT
AGGATGTGAGCATATTTTCTGTTATTTCTGTGCTAAGAGTAGTTTCTTATTTGACGTGTACTTTACTTGT
CCTAAGTGTGGCAGAAAGTACACAGTCTGCAGCCACTGAAATCAGGAATCGAGATGTCAGAAGTAAATG
CTCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG218196 representing NM_000318
Red=Cloning site Green=Tags(s)

MASRKENAKSANRVLRLISQLDALELNKALEQLVWSQFTQCFHGFKPGLLARFEPEVKACLWVFLWRFTIY
 SKNATVGQSVLNIKYKNDFSPNLRYPQPSKNQKIWYAVCTIGGRWLEERCYDLFRNHHLASFGKVKQCVN
 FVIGLLKLGGLINFLIFLQRGKFATLTERLLGIHSVFCFPQNIREVGFYEMNRELLWHGFAEFLIFLLPL
 INVQKLKAKLSSWCIPLTGAPNSDNTLATSGKECALCGEWPMPHTIGCEHIFCYFCAKSSFLFDVYFTC
 PKCGTEVHSLQPLKSGIEMSEVNAL

TRTRPLE - GFP Tag - V

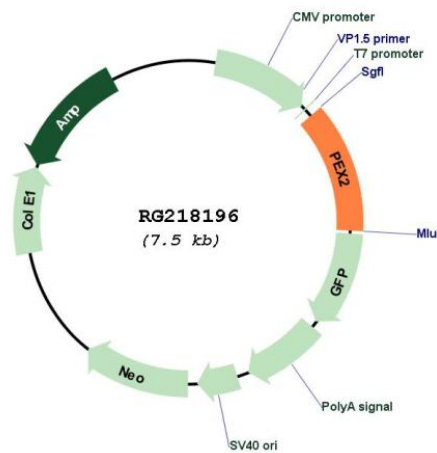
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_000318

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:	<ol style="list-style-type: none">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_000318.2
RefSeq Size:	1630 bp
RefSeq ORF:	918 bp
Locus ID:	5828
UniProt ID:	P28328
Cytogenetics:	8q21.13
Domains:	RING, Pex2_Pex12
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	This gene encodes an integral peroxisomal membrane protein required for peroxisome biogenesis. The protein is thought to be involved in peroxisomal matrix protein import. Mutations in this gene result in one form of Zellweger syndrome and infantile Refsum disease. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq, Jul 2008]