

## Product datasheet for **RG229856**

### PEX2 (NM\_001172086) Human Tagged ORF Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | PEX2 (NM_001172086) 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:  | >RG229856 representing NM_001172086<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTCCAGAAAAGAGAATGCGAAGAGTGCAACAGAGTGCTAAGAATAAGCCAGTTGGATGCACTTG  
AACTAAACAAGGCCCTGGAGCAGCTAGTTTGGTCCCAGTTTACTCAGTGCCTTCATGGATTTAAACCTGG  
GCTGTTAGCTCGCTTTGAGCCAGAGGTGAAAGCGTGCTTATGGGTTTTCTGTGGAGATTCACCATCTAC  
TCCAAAAATGCCACAGTGGGACAGTCAGTTTTGAATATTAAGTACAAAAATGATTTTTCCCTAACCTGA  
GATATCAGCCACCCAGTAAAAATCAAAAAATCTGGTATGCTGTTTGTACAATTGGTGGCAGTGGTTAGA  
AGAACGATGCTATGATTTGTTTCGAAACCATCATTAGCATCATTGGGAAAGTCAAGCAGTGTGTGAAT  
TTTGTGATTGGACTTTTGAAATTAGGTGGGCTGATTAATTTTTGATTTTCTTCAGAGGGGAAAGTTTG  
CACTTTGACAGAACGTCTCCTAGGTATTCATTCTGTATTTTGAAGCCTCAAAACATACGTGAAGTTGG  
CTTTGAATACATGAATAGGGAACCTCTCTGGCATGGTTTTGCTGAATTTCTGATTTTCTTACCCTT  
ATCAATGTCCAGAAGTTGAAAGCCAAGCTGTCTCATGGTGTATTCCTCTACTGGTGCACCTAATAGTG  
ACAATACATTAGCCACCAGTGGCAAAGAATGCGCTCTATGTGGAGAGTGGCCACCATGCCTCACCCAT  
AGGATGTGAGCATATTTTCTGTTATTTCTGTGCTAAGAGTAGTTTCTTATTTGACGTGTACTTTACTTGT  
CCTAAGTGTGGCAGAAAGTACACAGTCTGCAGCCACTGAAATCAGGAATCGAGATGTGAGAAGTAAATG  
CTCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG229856 representing NM\_001172086  
 Red=Cloning site Green=Tags(s)

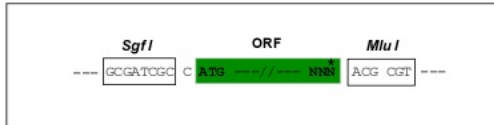
MASRKENAKSANRVLRLISQLDALELNKALEQLVWSQFTQCFHGFKPGLLARFEPEVKACLWVFLWRFTIY  
 SKNATVGQSVLNIKYKNDFSPNLRYPQPSKNQKIWYAVCTIGGRWLEERCYDLFRNHHLASFGKVKQCVN  
 FVIGLLKLGGLINFLIFLQRGKFATLTERLLGIHSVFCFPQNIREVGFYMNRELLWHGFAEFLIFLLPL  
 INVQKLKAKLSSWCIPLTGAPNSDNTLATSGKECALCGEWPMPHTIGCEHIFCYFCAKSSFLFDVYFTC  
 PKCGTEVHSLQPLKSGIEMSEVNAL

TRTRPLE - GFP Tag - V

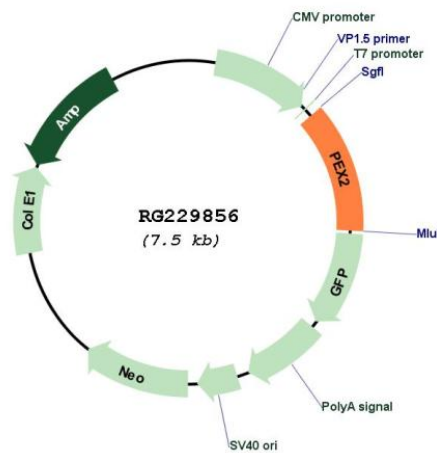
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001172086

**ORF Size:** 915 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_001172086.1</a> , <a href="#">NP_001165557.1</a>   |
| <b>RefSeq Size:</b>           | 4385 bp   |
| <b>RefSeq ORF:</b>            | 918 bp  |
| <b>Locus ID:</b>              | 5828  |
| <b>UniProt ID:</b>            | <a href="#">P28328</a>  |
| <b>Cytogenetics:</b>          | 8q21.13   |
| <b>Protein Families:</b>      | Druggable Genome, Transmembrane   |
| <b>Gene Summary:</b>          | 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]   |