

Product datasheet for **MG225112**

Pex2 (NM_001163305) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pex2 (NM_001163305) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pex2
Synonyms:	D3Erttd138e; PAF-1; PMP35; Pxmp3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG225112 representing NM_001163305 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTGGCAAAGAAGAGAATAATGCAGAGTGCAAACAGAGTGCTGAGGATAAGTCAGTTGGATGCACTTG
AACTGAATAAGGCCCTGGAGCAGCTTGTGTGGTCCAGTTTACTCAGTGCCTTTCATGGATTTAAGCCAGG
ACTGTTAGCTCGCTTTGAGCCAGAAGTAAAGCATTCTGTGGCTTTTCTATGGAGTTACCATCTAC
TCCAAAAATGCCACTGTGGGCAGTCAGTTTTAAATATTCAGTACAAAAATGATTCTTCTCTCAACCTGA
TATACCAGCCACCGAGTAAACTCAGAACTGTGGTATGCTGTGTGCACCATTGGGGAAAGTGGTTAGA
AGAACGATGTTATGATTTGTTTCGAAACCGTCATTTAGCGTCTTTTGGGAAAGCCAAACAGTTCATGAAT
TTTCTGTTGGACTTTTAAATAGGTGAGTTGATAAACTTCTTGATTTTCTACAAAAGGAAAGTTTG
CACTTTGACAGAACGCCTCCTTGGCATTCACTCCGATTTTGAAGCCCAAGACATGCGCGAAGTTGG
CTTTGAGTACATGAATAGGGAATCTCTGGCATGGCTTGTGTGAGTTTCTGATTTTCTCTTACCCTT
ATCAATATCCAGAAGTTGAAAGCCAAATGTCTTCTGGTGTATCCCTCTTACTGGTGTCTGCTGATG
ACAGTACACTAGGCAGCAGTGGAAAAGAGTGTCTGTGTGGAGAGTGGCCACAATGCCTCACACTAT
TGGATGTGAACATGTATTTTGTACTACTGTGTTAAGAGTAGCTTCTATTTGACATATACTTTACGTGC
CGAAGTGTGGCAGAGAAGTGCACAGTGTGCAGCCCTTGAATCAGGAATTGAAATGTGAGAAGTAAATG
CTCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG225112 representing NM_001163305
Red=Cloning site Green=Tags(s)

MTGKEENMQSANRVLRIQLDALELNKALEQLVWSQFTQCFHGFKPGLLARFEPEVKAFLWLFLWRFTIY
 SKNATVGQSVLNIQYKNDSSLNIYQPPSKTQKLWYAVCTIGGKWL EERCYDLFRNRHLASFGKAKQFMN
 FLVGLLKL GELINFLIFLQKGFATLTERLLGIHSVFCKPQNMREVGFEYMNRELLWHGFAEFLIFLLPL
 INIQKLKAKLSSWCIPLTGAAGHDSTLGSSGKECALCGEWPMPHTIGCEHVFCYCVKSSFLFDIYFTC
 PKCGTEVHSVQPLKSGIEMSEVNAL

TRTRPLE - GFP Tag - V

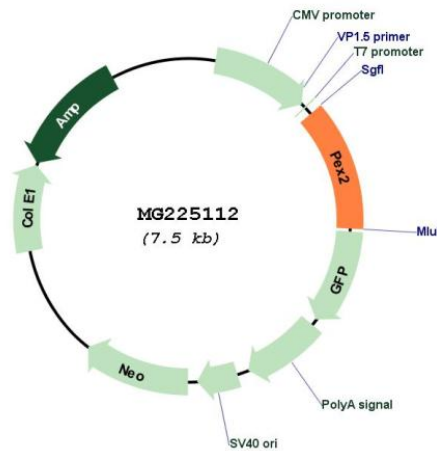
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001163305

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_001163305.2 , NP_001156777.1
RefSeq Size:	2149 bp
RefSeq ORF:	918 bp
Locus ID:	19302
UniProt ID:	P55098
Cytogenetics:	3 1.96 cM
Gene Summary:	Somewhat implicated in the biogenesis of peroxisomes.[UniProtKB/Swiss-Prot Function]