

## Product datasheet for **MG224466**

### **Pex14 (NM\_019781) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pex14 (NM_019781) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pex14
Synonyms:	Pex14p; R75137
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224466 representing NM_019781 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGTCGTCGGAGCAGGCAGAGCAGCCGAACCAGCCAAGCTCTCCTCCAGGAAGTAAAAATGTGGTGC  
CCCAGAGCCACTGATTGCCACAGCAGTGAAGTTCCTACAGAATTCTCGGGTCCGGCAGAGCCCACTTGC  
GACCAGGAGAGCATTCTTAAGAAGAAAGGACTGACAGACGAAGAGATTGACCTGGCTTCCAGCAGTCG  
GGCACAGCTGCCAGCAGCCTTACCCCTGGGCCAGCTACCCAGTGGTTCCTGTCCAGCCCCCTCACC  
TCACTCCGAGCCATACAGCCCCAGAGGCTCCCGATGGCGAGATTATGGTGCCTTGGCTATCATCATGGC  
AGGAATTGCATTTGGCTTTCACCAACTCTACAAGAGGTACCTGCTGCCCTCATCCTGGGAGGCCGAGAG  
GACAGAAAGCAGCTGGAGAGGATGGCAGCGAGTCTCTCGAACTGAGTGGCACCCGTGGCCAGACAGTGA  
CTCAGGTGCAGACAACACTGGCCTCTGTCCAAGAGCTACTGAGACAGCAGCAGCAGAAGTCCAGGAGCT  
AGCTCACGAGCTGGCCACTGCCAAGGCCACCACATCAACCAACTGGATCCTGGAGTCCCAGAATATTAAT  
GAGCTCAAGTCCGAAATCAACTCCTTGAAGGACTTCTTTGAATCGGAGACAGTTCCTCCTCCCCGT  
CGGCCCGAAGATCCCCCTCCTGGCAGATCCCAGTGAAGTCTTATCACCCCTCCAGCCCTGCGGCTGTCAA  
CCACCACAGCAGCAGTACATCTCCCCTGTCAGCAACGAGTCTACGTATCCTCCTCGGAAGGACAGC  
CACAGCCCGGAGGGCTCCACGGCCACATACCACCTGCTGGTCCCAGGAAGAGGGTGAAGGGGTGCTAG  
ATGTCAAGGGCCAGGTGAGGATGGAGGTGAGGGTGCAGGAGAGAGAGGAGGACAAGGAGGATGAGGA  
CGATGAGGATGATGACGTGAGCCATGTGGATGAGGAGGACGTCCTTGGGTGCAGAGGGAGGCCAGCG  
GGCGGCGATGGCAGATCAATGAGCAGGTAGAGAAGCTGCGGCGGCCGGAAGGTGCCAGCAATGAGACTG  
AGCGAGAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

**Protein Sequence:** >MG224466 representing NM\_019781  
 Red=Cloning site Green=Tags(s)

MASSEQAEQPNQPSSPPGSENVVPREPLIATAVKFLQNSRVRQSPLATRR AFLKKKGLTDEEIDLAFQQS  
 GTAADEPSPLGPATPVVVPVQPHLTPQYSPRGRWRDYGALAIIMAGIAFGFHQLYKRYLLPLILGGRE  
 DRKQLERMAASLSELSGTVAQTVTQVQVTLASVQELLRQQQKQVQELAHELATAKATTSTNWILESQIN  
 ELKSEINSLKGLLLNRRQFPPSPSAPKIPSWQIPVKSSSPSSPAAVNHSSSDISPVSNESTSSSPGKDS  
 HSPEGSTATYHLLGPQEEGEGVLDVKGQVRMEVQGEEEKREDEDEDDDDVSHVDEEDVLDVGVQREDRR  
 GGDGQINEQVEKLRPEGASNETERD

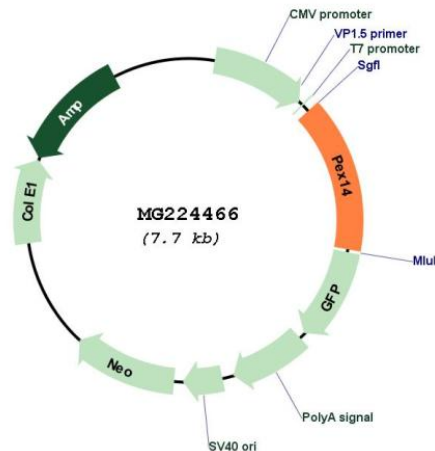
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_019781

<b>ORF Size:</b>	1128 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_019781.3</a>
<b>RefSeq Size:</b>	1942 bp
<b>RefSeq ORF:</b>	1131 bp
<b>Locus ID:</b>	56273
<b>UniProt ID:</b>	<a href="#">Q9R0A0</a>
<b>Cytogenetics:</b>	4 E2
<b>Gene Summary:</b>	Peroxisome membrane protein that is an essential component of the peroxisomal import machinery. Functions as a docking factor for the predominantly cytoplasmic PTS1 receptor (PEX5). Plays a key role for peroxisome movement through a direct interaction with tubulin. [UniProtKB/Swiss-Prot Function]