

## Product datasheet for **MG227546**

### Pax6 (NM\_013627) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pax6 (NM_013627) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pax6
Synonyms:	1500038E17Rik; AEY1; AEY11; Dey; Gsfaey; Gsfaey11; Pax; Pax-6; Sey
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG227546 representing NM_013627 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAGAACAGTCACAGCGGAGTGAATCAGCTTGGTGGTGTCTTTGTCAACGGCGGCCACTGCCGGACT  
CCACCCGGCAGAAGATCGTAGAGCTAGCTCACAGCGGGGCCGGCGTGCACATTTCCCGAATTCTGCA  
GACCCATGCAGATGCAAAAGTCCAGGTGCTGGACAATGAAAACGTATCCAACGGTTGTGTGAGTAAAATT  
CTGGGCAGGTATTACGAGACTGGCTCCATCAGACCCAGGGCAATCGGAGGGAGTAAGCCAAGAGTGGCGA  
CTCCAGAAGTTGTAAGCAAAATAGCCAGTATAAACGGGAGTGCCCTTCCATCTTTGCTTGGAAATCCG  
AGACAGATTATTATCCGAGGGGGTCTGTACCAACGATAACATACCCAGTGTGCATCAATAAACAGAGTT  
CTTCGCAACCTGGCTAGCGAAAAGCAACAGATGGGCGCAGACGGCATGTATGATAAACTAAGGATGTTGA  
ACGGGCAGACCGGAAGCTGGGGCACACGCCCTGGTTGGTATCCCGGGACTTCAGTACCAGGGCAACCCAC  
GCAAGATGGCTGCCAGCAACAGGAAGGAGGGGGAGAGAACACCAACTCCATCAGTTCTAACGGAGAAGAC  
TCGGATGAAGCTCAGATGCGACTTCAGCTGAAGCGGAAGCTGCAAAGAAATAGAACATCTTTTACCCAAG  
AGCAGATTGAGGCTCTGGAGAAAGAGTTTGAGAGGACCCATTATCCAGATGTGTTTCCCGGGAAAGACT  
AGCAGCCAAAATAGATCTACCTGAAGCAAGAATACAGGTATGGTTTTCTAATCGAAGGGCCAAATGGAGA  
AGAGAAGAGAACTGAGGAACAGAGAAGACAGGCCAGCAACACTCCTAGTCACATTCCTATCAGCAGCA  
GCTTCAGTACCAGTGTCTACCAGCCAATCCCACAGCCCACCACACTGTCTCCTCCTTACATCAGGTTCC  
CATGTTGGGCCGAACAGACACCGCCCTACCAACACGTACAGTGTCTTGGCACCCATGCCAGCTTCACC  
ATGGCAAACAACCTGCCTATGCAACCCCGAGTCCCGAGTCAGACCTCCTCATACTCGTGCATGCTGCCCA  
CCAGCCCCTCAGTGAATGGGCGGAGTTATGATACCTACACCCCTCCGCACATGCAAACACACATGAACAG  
TCAGCCCATGGGCACCTCGGGGACCACTTCAACAGGACTCATTTACCTGGAGTGTGAGTCCCGTCCAA  
GTTCCCGGAGTGAACCTGACATGTCTCAGTACTGGCCTCGATTACAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG227546 representing NM\_013627  
 Red=Cloning site Green=Tags(s)

MQNSHSGVNLGGVFNVRPLPDSTRQKIVELAHSGARPCDISRILQTHADAKVQVLDNENVSNGCVSKI  
 LGRYYETGSIRPRAIGGSKPRVATPEVVS KIAQYKRECPSIFAW EIRDRL SEGVTNDNIPSVSSINRV  
 LRNLASEKQQMGADGMYDKLRMLNGQTGSWGTRPGWYPGTSVPGQPTQDGCQQEGGENTNSISSNGED  
 SDEAQMRLQLKRKLQRNRTSFTQEIEALEKEFER THYPDVFARERLAAKIDLPEARIQVWFSNRRAKWR  
 REEKLNRQRQASNTPSHIPISSSFSTSVYQPI PQPTTPVSSFTSGSMLGRTDTALTNTYSALPPMPSFT  
 MANNLPMQPPVPSQTSSYSCMLPTSPSVNGRSYD TYTPPHMQTHMNSQPMGTSGTSTGLISPGVSVPVQ  
 VPGSEPDMSQYWRLQ

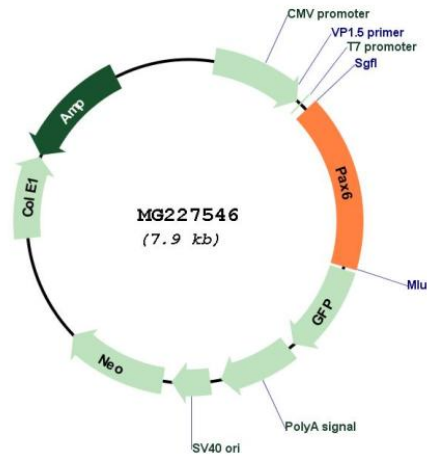
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_013627

<b>ORF Size:</b>	1308 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<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_013627.6</a>
<b>RefSeq Size:</b>	3175 bp
<b>RefSeq ORF:</b>	1311 bp
<b>Locus ID:</b>	18508
<b>UniProt ID:</b>	<a href="#">P63015</a>
<b>Cytogenetics:</b>	2 55.31 cM
<b>Gene Summary:</b>	<p>This gene encodes a homeobox-containing protein that functions as a regulator of transcription. It plays a key role in the development of neural tissues, particularly the eye. Activity of this protein is also required for expression of glucagon in the pancreas. This gene is regulated by multiple enhancers located up to tens or hundreds of kilobases upstream and downstream of the transcription start sites. Mutations in this gene or deletion of these regulatory elements results in severe defects in eye development. Alternative splicing and the use of alternative promoters results in multiple transcript variants, some of which encode proteins that lack the N-terminal paired domain. [provided by RefSeq, Jul 2015]</p>