

Product datasheet for **MR227546**

Pax6 (NM_013627) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pax6 (NM_013627) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pax6
Synonyms:	1500038E17Rik; AEY1; AEY11; Dey; Gsfaey; Gsfaey11; Pax; Pax-6; Sey
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR227546 representing NM_013627
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCAGAACAGTCACAGCGGAGTGAATCAGCTTGGTGGTCTTTGTCAACGGGCGGCCACTGCCGGACT
 CCACCCGGCAGAAGATCGTAGAGCTAGCTCACAGCGGGGCCGGCGTGGACATTTCCCGAATTCTGCA
 GACCCATGCAGATGCAAAAGTCCAGGTGCTGGACAATGAAAACGTATCCAACGGTTGTGTGAGTAAAT
 CTGGGCAGGTATTACGAGACTGGCTCCATCAGACCCAGGGCAATCGGAGGGAGTAAGCCAAGAGTGGCGA
 CTCCAGAAGTTGTAAGCAAAATAGCCCAGTATAAACGGGAGTGCCTTCCATCTTTGCTTGGGAAATCCG
 AGACAGATTATTATCCGAGGGGGTCTGTACCAACGATAACATACCCAGTGTGTCAATAAACAGAGTT
 CTTGCAACCTGGCTAGCGAAAAGCAACAGATGGGCGCAGACGGCATGTATGATAAACTAAGGATGTTGA
 ACGGGCAGACCGGAAGCTGGGGCACACGCCCTGGTTGGTATCCCGGACTTCAGTACCAGGGCAACCCAC
 GCAAGATGGCTGCCAGCAACAGGAAGGAGGGGAGAGAACCAACTCCATCAGTTCTAACGGAGAAGAC
 TCGGATGAAGCTCAGATGCGACTTCAGCTGAAGCGGAAGCTGCAAGAAATAGAACATCTTTTACCCAAG
 AGCAGATTGAGGCTCTGGAGAAAGAGTTTGAGAGGACCCATTATCCAGATGTGTTTGGCCGGGAAAGACT
 AGCAGCCAAAATAGATCTACCTGAAGCAAGAATACAGGTATGGTTTTCTAATCGAAGGGCCAAATGGAGA
 AGAGAAGAGAACTGAGGAACCAGAGAAGACAGGCCAGCAACACTCCTAGTCACATTCCTATCAGCAGCA
 GCTTCAGTACCAGTGTCTACCAGCCAATCCCACAGCCCACCACACCTGTCTCCTCCTTCACATCAGGTTCC
 CATGTTGGGCCGAACAGACACCGCCCTCACCAACAGTACAGTGTCTTCCACCCATGCCAGCTTACC
 ATGGCAAAACACTGCCTATGCAACCCAGTCCCAGTCAGACCTCCTCATACTCGTGCATGCTGCCCA
 CCAGCCCGTCAGTGAATGGCGGAGTTATGATACCTACACCCCTCCGCACATGCAAAACACACATGAACAG
 TCAGCCCATGGGCACCTCGGGGACCACTTCAACAGGACTCATTTCACCTGGAGTGCAGTTCCCGTCCAA
 GTTCCCGGAGTGAACCTGACATGTCTCAGTACTGGCCTCGATTACAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR227546 representing NM_013627
 Red=Cloning site Green=Tags(s)

MQNSHSGVNQLGGVFVNGRPLPDSTRQKIVELAHSGARPCDISRILQTHADAKVQVLDNENVSNGCVSKI
 LGRYYETGSIRPRAIGGSKPRVATPEVVSKIAQYKRECPISFAWEIRDRLLESEGVTNDNIPSVSSINRV
 LRNLASEKQQMGADGMYDKLRMLNGQTGSWGTRPGWYPGTSVPGQPTQDGCQQQEGGGENTNSISSNGED
 SDEAQMRLQLKRKLQRNRTSFTQEIEALEKEFERTHYPDVFARERLAAKIDLPEARIQVWFSNRRAKWR
 REEKLNRQRQASNTPSHIPISSSFSTSVYQPIQPTTPVSSFTSGSMLGRTDTALTNTYSALPPMPSFT
 MANNLPMQPPVPSQTSYSCMLPTSPSVNGRSYDITYPPHMQTHMNSQPMGTSMTTSTGLISPGVSVPVQ
 VPGSEPDMSQYWPRQLQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9032_d04.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_013627

ORF Size: 1308 bp

OTI Disclaimer: 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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

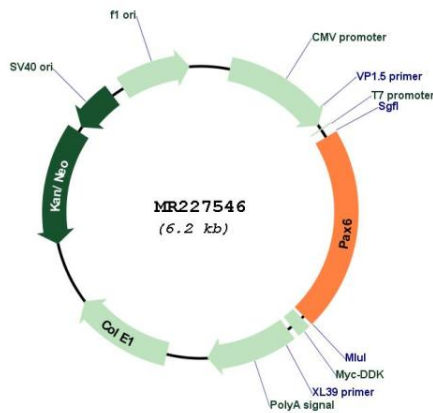
- Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_013627.6](#)

RefSeq Size: 3175 bp
 RefSeq ORF: 1311 bp
 Locus ID: 18508
 UniProt ID: [P63015](#)
 Cytogenetics: 2 55.31 cM
 MW: 48.7 kDa

Gene Summary: 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]

Product images:



Circular map for MR227546