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Product datasheet for MC227621

Pax6 (NM_001244202) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pax6 (NM_001244202) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pax6
Synonyms:	1500038E17Rik; AEY1; AEY11; Dey; Gsfaey; Gsfaey11; Pax; Pax-6; Sey
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC227621 representing NM_001244202 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCAGAACAGTCACAGCGGAGTGAATCAGCTTGGTGGTGTCTTTGTCAACGGGCGGCCACTGCCGGACT CCACCCGGCAGAAGATCGTAGAGCTAGCTCACAGCGGGGCCCGGCCGTGCGACATTTCCCGAATTCTGCA GGTATCCAACGGTTGTGTGAGTAAAATTCTGGGCAGGTATTACGAGACTGGCTCCATCAGACCCAGGGCA ATCGGAGGGAGTAAGCCAAGAGTGGCGACTCCAGAAGTTGTAAGCAAAATAGCCCAGTATAAACGGGAGT GCCCTTCCATCTTTGCTTGGGAAATCCGAGACAGATTATTATCCGAGGGGGTCTGTACCAACGATAACAT ACCCAGTGTGTCATCAATAAACAGAGTTCTTCGCAACCTGGCTAGCGAAAAGCAACAGATGGGCGCAGAC GGCATGTATGATAAACTAAGGATGTTGAACGGGCAGACCGGAAGCTGGGGCACACGCCCTGGTTGGTATC CCGGGACTTCAGTACCAGGGCAACCCACGCAAGATGGCTGCCAGCAACAGGAAGGAGGGGGAGAGAACAC CAACTCCATCAGTTCTAACGGAGAAGACTCGGATGAAGCTCAGATGCGACTTCAGCTGAAGCGGAAGCTG CAAAGAAATAGAACATCTTTTACCCAAGAGCAGATTGAGGCTCTGGAGAAAGAGTTTGAGAGGACCCATT ATCCAGATGTGTTTGCCCGGGAAAGACTAGCAGCCAAAATAGATCTACCTGAAGCAAGAATACAGGTATG GTTTTCTAATCGAAGGGCCAAATGGAGAAGAGAAGAGAAACTGAGGAACCAGAGAAGACAGGCCAGCAAC ACTCCTAGTCACATTCCTATCAGCAGCAGCTTCAGTACCAGTGTCTACCAGCCAATCCCACAGCCCACCA CACCTGTCTCCTCCTTCACATCAGGTTCCATGTTGGGCCGAACAGACACCGCCCTCACCAACACGTACAG TGCTTTGCCACCCATGCCCAGCTTCACCATGGCAAACAACCTGCCTATGCAACCCCCAGTCCCCAGTCAG ACCTCCTCATACTCGTGCATGCTGCCCACCAGCCCGTCAGTGAATGGGCGGAGTTATGATACCTACACCC CTCCGCACATGCAAACACACATGAACAGTCAGCCCATGGGCACCTCGGGGACCACTTCAACAGGACTCAT TTCACCTGGAGTGTCAGTTCCCGTCCAAGTTCCCGGGAGTGAACCTGACATGTCTCAGTACTGGCCTCGA TTACAGTAA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Restriction Sites:	SgfI-MluI
ACCN:	NM_001244202
Insert Size:	1269 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001244202.2, NP_001231131.1
RefSeq Size:	4165 bp
RefSeq ORF:	1269 bp
Locus ID:	18508
UniProt ID:	P63015
Cytogenetics:	2 55.31 cM
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] Transcript Variant: This variant (5) differs in the 5' UTR and lacks an in-frame exon in the 5' coding region compared to variant 1. The encoded isoform (2) is shorter than isoform 1. Variants 4, 5, and 6 encode the same protein (isoform 2).