

Product datasheet for **RG210370**

PAX4 (NM_006193) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PAX4 (NM_006193) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PAX4
Synonyms: KPD; MODY9
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG210370 representing NM_006193
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAACCAGCTTGGGGGCTCTTTGTGAATGGCCGGCCCTGCCTCTGGATACCCGGCAGCAGATTGTGC
 GGCTAGCAGTCAGTGAATGCGGCCCTGTGACATCTCACGGATCCTTAAGGTATCTAATGGCTGTGTGAG
 CAAGATCTTAGGGCGTTACTACCGCACAGGTGTCTTGAGCCAAAGGGCATTGGGGGAAGCAAGCCACGG
 CTGGCTACACCCCTGTGGTGGCTCGAATTGCCAGCTGAAGGGTGAAGTGTCCAGCCCTCTTTCCTGGG
 AAATCCAACGCCAGCTTTGTGCTGAAGGGCTTTGCACCCAGGACAAGACTCCCAGTGTCTCCTCCATCAA
 CCGAGTCTGCGGGCATTACAGGAGGACCAGGGACTACCGTGCACACGGCTCAGGTCACCGAGCTGTTTTG
 GCTCCAGCTGTCCCTCACTCCCCATAGTGGCTCTGAGACTCCCGGGGTACCCACCCAGGGACCGGCCACC
 GGAATCGGACTATCTTCTCCCAAGCCAGGCAGAGGCACTGGAGAAAGAGTTCACGCTGGGCAGTATCC
 TGATTAGTGGCCGTGGAAAGCTGGCTACTGCCACCTCTCTGCCTGAGGACACGGTGAAGGTCTGGTTT
 TCCAACAGAAGAGCCAAATGGCGTCGGCAAGAGAAGCTCAAGTGGGAAATGCAGCTGCCAGGTGCTTCCC
 AGGGGCTGACTGTACCAAGGGTTGCCCCAGGAATCATCTCTGCACAGCAGTCCCCTGGCAGTGTGCCAC
 AGCAGCCCTGCCTGCCCTGGAACCACTGGTCCCTCCTGCTATCAGCTGTGCTGGGCAACAGCACCAGAA
 AGGTGTCTGAGTGACACCCACCTAAAGCCTGTCTCAAGCCCTGCTGGGGCCACTTGCCCCACAGCCGA
 ATTCCCTGGACTCAGGACTGCTTTGCCTTCTTGCCCTTCTCCACTGTCCCCTGGCCAGTCTTAGTGG
 CTCTCAGGCCCTGCTCTGGCCTGGCTGCCACTACTGTATGGCTTGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210370 representing NM_006193
 Red=Cloning site Green=Tags(s)

MNQLGGLFVNGRPLPLDTRQQIVRLAVSGMRPCDISRILKVSNGCVSKILGRYYRTGVLEPKGIGGSKPR
 LATPPVVARIAQLKGCEPALFAWEIQRQLCAEGLCTQDKTPSVSSINRVLRALQEDQGLPCTRLRSPAVL
 APAVLTPHSGSETPRGTHPGTGHRNRTIFSPSQAEALEKEFQRGQYPDSVARGKLATATSLPEDTVRVWF
 SNRRAKWRRQEKLKWEMQLPGASQGLTVPRVAPGIIISAQQSPGSVPTAALPALEPLGPSCYQLCWATAPE
 RCLSDTPPKACLKPCWGHLPQPNSLDSGLLCLPCSSHCLASLSGSQALLWPGCPALLYGLE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006193

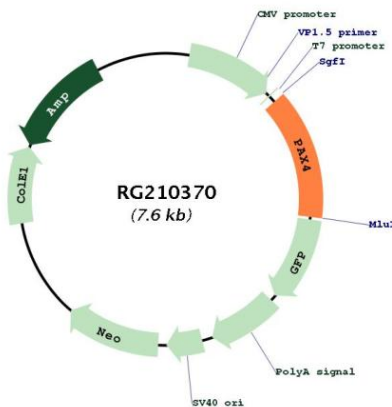
ORF Size: 1029 bp

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:	<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:	<u>NM_006193.1, NP_006184.1</u>
RefSeq Size:	2020 bp
RefSeq ORF:	1032 bp
Locus ID:	5078
UniProt ID:	<u>O43316</u>
Cytogenetics:	7q32.1
Protein Families:	Embryonic stem cells, ES Cell Differentiation/IPS, Transcription Factors
Protein Pathways:	Maturity onset diabetes of the young
Gene Summary:	This gene is a member of the paired box (PAX) family of transcription factors. Members of this gene family typically contain a paired box domain, an octapeptide, and a paired-type homeodomain. These genes play critical roles during fetal development and cancer growth. The paired box 4 gene is involved in pancreatic islet development and mouse studies have demonstrated a role for this gene in differentiation of insulin-producing beta cells. [provided by RefSeq, Jul 2008]

Product images:


Circular map for RG210370