

Product datasheet for SC304021

PAX8 (NM_013953) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: PAX8 (NM_013953) Human Untagged Clone

Tag: Tag Free Symbol: PAX8

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

Fully Sequenced ORF: >SC304021 representing NM_013953.

Blue=Insert sequence Red=Cloning site Green=Tag(s)

GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ACGCGTACGCGCCCCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT

TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: Sgfl-Mlul



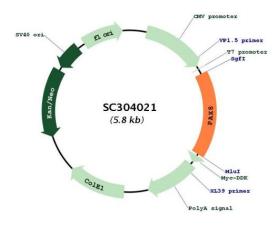
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Plasmid Map:



ACCN: NM_013953

Insert Size: 966 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: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning

into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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: <u>NM 013953.3</u>

RefSeq Size: 3755 bp **RefSeq ORF:** 966 bp



PAX8 (NM_013953) Human Untagged Clone - SC304021

 Locus ID:
 7849

 UniProt ID:
 Q06710

 Cytogenetics:
 2q14.1

Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Pathways in cancer, Thyroid cancer

MW: 34.9 kDa

Gene Summary: This gene encodes a member of the paired box (PAX) family of transcription factors. Members

of this gene family typically encode proteins that contain a paired box domain, an

octapeptide, and a paired-type homeodomain. This nuclear protein is involved in thyroid follicular cell development and expression of thyroid-specific genes. Mutations in this gene have been associated with thyroid dysgenesis, thyroid follicular carcinomas and atypical follicular thyroid adenomas. Alternatively spliced transcript variants encoding different

isoforms have been described. [provided by RefSeq, Mar 2010]

Transcript Variant: This variant (PAX8D) lacks two alternate exons, compared to variant PAX8A, that results in a frameshift and an early stop codon. The encoded isoform (PAX8D) is shorter

and has a distinct C-terminus compared to isoform PAX8A.