

Product datasheet for SC303412

PAX2 (NM_003987) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: PAX2 (NM_003987) Human Untagged Clone
Tag: Tag Free
Symbol: PAX2
Synonyms: FSGS7; PAPRS
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_003987 edited
 CCTCCCTTTTCTCCTCAAGTCTGAAGTTGAGTTTGAGAGGCGACACGGCGGCGGGCC
 GCGCTGCTCCCGCTCCTCTGCCTCCCCATGGATATGCACTGCAAAGCAGACCCCTTCTCC
 GCGATGACCCAGGGCACGGGGGTGTGAACCAGCTCGGGGGGGTGTGGTGAACGCGCGG
 CCCTACCCGACGTGGTGAAGCAGCGCATCGTGGAGCTGGCCACCAGGGTGTGCGGCC
 TGTGACATCTCCCGCAGCTGCGGGTCAGCCACGGCTGTGTGACAAAATCCTGGGCAGG
 TACTACGAGACCGGCAGCATCAAGCCGGTGTGATCGGTGGCTCCAAGCCCAAAGTGGCG
 ACGCCCAAAGTGGTGGACAAGATTGCTGAATACAAACGACAGAACCCGACTATGTTCCGC
 TGGGAGATTGAGACCGGCTCCTGGCCGAGGGCATCTGTGACAATGACACAGTGCCGAGC
 GTCTCTTCCATCAACAGAATCATCCGGACCAAAGTTCAGCAGCCTTCCACCCAACGCCG
 GATGGGGCTGGGACAGGAGTGACCGCCCTGGCCACACCATTGTTCCAGCACGGCCTCC
 CCTCCTGTTTCCAGCGCCTCCAATGACCCAGTGGGATCCTACTCCATCAATGGGATCCTG
 GGGATTCTCGCTCCAATGGTGAGAAGAGGAAACGTGATGAAGTTGAGGTATACACTGAT
 CCTGCCACATTAGAGGAGGTGGAGTTTGCATCTGGTCTGGACTTTAAGAGATGTGTCT
 GAGGGCTCAGTCCCAATGGAGATTCCCAGAGTGGTGTGGACAGTTTGGGAAGCACTTG
 CGAGCTGACACCTTACCCAGCAGCAGCTGGAAGCTTTGGATCGGGTCTTTGAGCGTCT
 TCCTACCCTGACGTCTTCCAGGCATCAGAGCACATCAAATCAGAACAGGGGAACGAGTAC
 AACCTGAGCTGGGCAGCAACGTGTGAGGCACACAGACATACCCAGTTGTGACTGGTCTG
 GACATGGCGAGCACCACTCTGCCTGGTTACCCCTCACGTGCCCCACTGGCCAGGGA
 AGTACCCACCTCCACCTGGCAGGAATGGTGCCTGGGAGCGAGTTCTCCGGCAACCCG
 TACAGCCACCCAGTACACGGCCTACAACGAGGCTTGGAGATTAGCAACCCCGCCTTA
 CTAAGTCCCCTTATTATTATAGTGCCGCCCCCGGTCCGCCCTGCCGCTGCTGCCGCT
 GCCTATGACCGCCACTAGTTA

Restriction Sites: Please inquire



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ACCN:	NM_003987
Insert Size:	1300 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:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_003987.2.
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_003987.2</u> , <u>NP_003978.2</u>
RefSeq Size:	4276 bp
RefSeq ORF:	1251 bp
Locus ID:	5076
UniProt ID:	<u>Q02962</u>
Cytogenetics:	10q24.31
Protein Families:	Druggable Genome
Gene Summary:	<p>PAX2 encodes paired box gene 2, one of many human homologues of the Drosophila melanogaster gene prd. The central feature of this transcription factor gene family is the conserved DNA-binding paired box domain. PAX2 is believed to be a target of transcriptional suppression by the tumor suppressor gene WT1. Mutations within PAX2 have been shown to result in optic nerve colobomas and renal hypoplasia. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Dec 2014]</p> <p>Transcript Variant: This variant (a) uses an alternate in-frame splice site in the 3' coding region, compared to variant e, resulting in a shorter protein (isoform a) that has a shorter, distinct C-terminus compared to isoform e. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>