

## Product datasheet for SC303415

### PAX2 (NM\_003990) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PAX2 (NM_003990) Human Untagged Clone
Tag:	Tag Free
Symbol:	PAX2
Synonyms:	FSGS7; PAPRS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC303415 representing NM_003990. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGATATGCACTGCAAAGCAGACCCCTTCTCCGCGATGCACCCAGGGCACGGGGGTGTGAACCACTC
GGGGGGGTGTTTGTGAACGGCCGGCCCTACCCGACGTGGTGAGGCAGCGCATCGTGAGCTGGCCAC
CAGGGTGTGCGGCCCTGTGACATCTCCCGCAGCTGCGGGT CAGCCACGGCTGTGT CAGCAAATCTG
GGCAGGTACTACGAGACCGGCAGCATCAAGCCGGGTGTGATCGGTGGCTCCAAGCCAAAGTGCGCAGC
CCCAAAGTGGTGGACAAGATTGCTGAATACAAACGACAGAACCCGACTATGTTCCGCTGGGAGATT CGA
GACCGGCTCCTGGCCGAGGGCATCTGTGACAATGACACAGTGCCAGCGTCTTCCATCAACAGAATC
ATCCGGACCAAAGTTCAGCAGCCTTCCACCCAACGCCGATGGGGCTGGGACAGGAGTGACCGCCCT
GGCCACACCAATTGTTCCAGCACGGCCTCCCTCCTGTTCCAGCGCCTCCAATGACCCAGTGGGATCC
TACTCCATCAATGGGATCCTGGGGATCCTCGCTCCAATGGTGAGAAGAGGAAACGTGATGAAGTTGAG
GTATACACTGATCCTGCCACATTAGAGGAGGTGGAGGTTTGCATCTGGTCTGGACTTAAAGAGATGTG
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GACACCTTCAACCAGCAGCAGCTGGAAGCTTTGGATCGGGTCTTTGAGCGTCTTCTACCTGACGTC
TTCCAGGCATCAGAGCACATCAAATCAGAACAGGGGAACGAGTACTCCCTCCAGCCCTGACCCCTGGG
CTTGATGAAGTCAAGTCGAGTCTATCTGCATCCACCAACCTGAGCTGGG CAGCAACGTGT CAGGCACA
CAGCATACCCAGTTGTGACTGGTCGTGACATGGCGAGCACCACTCTGCCTGTTACCCCTCAGGTG
CCCCCACTGGCCAGGAAGCTACCCACCTCCACCCTGGCAGGAATGGTGCCTGGGAGCGAGTTCTCC
GGCAACCCGTACAGCCACCCCACTACACGGCCTACAACGAGGCTTGGAGATT CAGCAACCCCGCTTA
CTAATGCCGCCCCCGGGCTCCGCCCTGCCGCTGCTGCCGCTGCCTATGACCGCCACTAGTTACCGC
GGGACCACATCAAGCTT CAGGCCGACAGCTTCGGCTCCACATCGTCCCGCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_003990
<b>Insert Size:</b>	1299 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_003990.4</a></u>
<b>RefSeq Size:</b>	4107 bp
<b>RefSeq ORF:</b>	1299 bp
<b>Locus ID:</b>	5076
<b>UniProt ID:</b>	<u><a href="#">Q02962</a></u>
<b>Cytogenetics:</b>	10q24.31
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	46.4 kDa
<b>Gene Summary:</b>	<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 (e) encodes the longest 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>