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Product datasheet for SC303414

PAX2 (NM_003989) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PAX2 (NM_003989) 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:	>SC303414 representing NM_003989. Blue=Insert sequence Red=Cloning site Green=Tag(s) GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGGATATGCACTGCAAAGCAGACCCCTTCTCCGCGATGCACCCAGGGCACGGGGGTGTGAACCAGCTC GGGGGGGTGTTTGTGAACGGCCGGCCCCTACCCGACGTGGTGAGGCAGCGCATCGTGGAGCTGGCCCAC CAGGGTGTGCGGCCCTGTGACATCTCCCGGCAGCTGCGGGTCAGCCACGGCTGTGTCAGCAAAATCCTG GGCAGGTACTACGAGACCGGCAGCATCAAGCCGGGTGTGATCGGTGGCTCCAAGCCCAAAGTGGCGACG CCCAAAGTGGTGGACAAGATTGCTGAATACAAACGACAGAACCCGACTATGTTCGCCTGGGAGATTCGA GACCGGCTCCTGGCCGAGGGCATCTGTGACAATGACACAGTGCCCAGCGTCTCTTCCATCAACAGAATC ATCCGGACCAAAGTTCAGCAGCCTTTCCACCCAACGCCGGATGGGGCTGGGACAGGAGTGACCGCCCCT GGCCACACCATTGTTCCCAGCACGGCCTCCCCTCCTGTTTCCAGCGCCTCCAATGACCCAGTGGGATCC TACTCCATCAATGGGATCCTGGGGATTCCTCGCTCCAATGGTGAGAAGAGGAAACGTGATGAAGATGTG TCTGAGGGCTCAGTCCCCAATGGAGATTCCCAGAGTGGTGTGGACAGTTTGCGGAAGCACTTGCGAGCT GACACCTTCACCCAGCAGCAGCTGGAAGCTTTGGATCGGGTCTTTGAGCGTCCTTCCTACCCTGACGTC TTCCAGGCATCAGAGCACATCAAATCAGAACAGGGGAACGAGTACTCCCTCCCAGCCCTGACCCCTGGG CTTGATGAAGTCAAGTCGAGTCTATCTGCATCCACCAACCCTGAGCTGGGCAGCAACGTGTCAGGCACA CAGACATACCCAGTTGTGACTGGTCGTGACATGGCGAGCACCACTCTGCCTGGTTACCCCCCTCACGTG CCCCCCACTGGCCAGGGAAGCTACCCCACCTCCACCCTGGCAGGAATGGTGCCTGGGAGCGAGTTCTCC GGCAACCCGTACAGCCACCCCCAGTACACGGCCTACAACGAGGCTTGGAGATTCAGCAACCCCGCCTTA CTAATGCCGCCCCCCGGGGCTCCGCCCCTGCCGCTGCTGCCGCTGCCTATGACCGCCACTAGTTACCGC GGGGACCACATCAAGCTTCAGGCCGACAGCTTCGGCCTCCACATCGTCCCCGTCTGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
Restriction Sites:	SgfI-MluI

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ACCN:	NM_003989
Insert Size:	1230 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:	NM_003989.4
RefSeq Size:	4038 bp
RefSeq ORF:	1230 bp
Locus ID:	5076
UniProt ID:	Q02962
Cytogenetics:	10q24.31
Protein Families:	Druggable Genome
MW:	43.9 kDa
Gene Summary:	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 supression 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] Transcript Variant: This variant (d) lacks an alternate in-frame exon compared to variant e. This results in an isoform (isoform d) that is shorter than 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.