

Product datasheet for **SC109612**

Papillary renal cell carcinoma (PRCC) (NM_005973) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Papillary renal cell carcinoma (PRCC) (NM_005973) Human Untagged Clone
Tag:	Tag Free
Symbol:	Papillary renal cell carcinoma
Synonyms:	RCCP1; TPRC
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC109612 sequence for NM_005973 edited (data generated by NextGen Sequencing)
 ATGTCGCTGGTTGCTTACGCCAGCAGCGATGAGAGCGAGCCGGATGAGGCTGAGCCCGAG
 CCGGAGGAAGAGGAGGCGGTGGCTCCTACATCTGGGCCGCTTTAGGGGGCTTGTTCGCT
 TCTCTCCCTGCGCCAAAGGTCGGCCTTGCTGCCTCCGCCCTCAGATGCTGGCGCCA
 GCCTTTCCCGCCGCTGTTGCTTCCCCACCCACCGGAGACCCAGGCTTCAGCCTCCT
 CCCCCCTTGCCCTTCGGCCTGGGAGGCTTCCCCCACCTCCAGGGGTGAGCCCGCTGAA
 GCGGCGGGAGTTGGGGAGGGACTGGGATTGGGGTTGCCCTCGCCCCGAGGCCCTGGCCTC
 AATCTGCCCCCTCCAATTGGCGGTGCCGTCCCCCGCTGGGGCTTTCAAAGCCAAAGAAG
 AGGAAAGAGCCCGTGAAGATCGCGGCGCGGAGTTGCATAAGGGAGATTGAGATTCTGAG
 GAAGATGAACCCACAAAGAAGAAAACCTCCTTCAGGGATCCAGTGAGGGGACTGGTTTG
 TCTGCCTTGCTTCCCAACCTAAAAACCTGACTGTGAAAGAGACTAACAGGTTGCTCCTG
 CCCCATGCCTTCCCGCAAACCTCGGATGGCTCCCCTGATACTAAGCCCTCCAGACTG
 GCTTCTAAGACCAAGACTTCTCTCTTGCCCTGTTGTGGGCACCAACCACACTCCG
 TCGCCCTCTGCTATCAAGGCTGTGCCAAGAGTGTGCCCTGCAGGTGACAAAGCAGATC
 ACGCAGGAAGAAGACGACAGTGATGAGGAAGTAGCCCCGAAAACTTTTCTCCCTCCCT
 GAAAAGGCTGAGCCACCTGGAGTTGAGCCATACCCTTACCCCATCCCCACTGTCCCTGAA
 GAGCTGCCTCCAGGCACGGAACAGAGCCGGCTTTCCAGGACGATGCAGCCAATGCCCCC
 CTTGAATTCAAGATGGCAGCAGGTTCAAGTGGGGCCCCTTGGATGCCTAAGCCTGGGGAC
 GACTACAGCTACAATCAGTTTTCCACATATGGCGATGCCAATGCCGCTGGTGCTATTAT
 CAGGATTATTACAGTGGTGGCTACTATCCTGCACAGGACCCGGCCCTGGTCCCCCCCAG
 GAAATTCAGCCAGATGCCTCCTTCATCGATGACGAAGCATTAAAGCGGCTGCAGGGCAAG
 ATGAACCGAGGGAGAGAAGAAATCAACTTTGTGGAGATCAAAGGTGATGACCAGCTCAGT
 GGGGCCAGCAATGGATGACTAAGTCATTGACAGAAGAGAAAACCATGAAGTCATTACAGC
 AAAAAGAAAGGTGAGCAGCCAACAGGCCAGCAGCGGCGAAAACACAGATCACATATCTT
 ATTCATCAGGCCAAGGAGCGGGAGCTGGAAGTGAAGAACACCTGGTCAGAGAACAAGCTC
 AGCCGCCGTCAGACCCAAGCCAAATATGGATTCTAG

Clone variation with respect to NM_005973.4
 406 c=>t

5' Read Nucleotide Sequence: >OriGene 5' read for NM_005973 unedited
 CCCGCCCGTTGNCGATTGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAG
 CTCATTTAGGTGACACTATAGAATAACAAGCTACTTGTCTTTTTGTCAGCGGCCGGAATT
 CCGCAGGAGGGGACTAGGAGCTTAAGTGAAGAGGTACGCCTTGTTCGGTGGAAATCAGC
 CGTAGCCATGAGTTTCTGCCGGGCTAGCCCTAGAGTACGGAGCAGGCGGACTTTTCGGT
 TCCCCGCCCGCCAGGTGGCGGGCCTACTAGGCCTCCGGGCATCCCCGGTCTCAAGTAG
 GCCTCATCTGCCGCAAGGGCGCCCCGAAACGCGGGAGGCCCATGTCGCTGGTTGCTTAC
 GCCAGCAGCGATGAGAGCGAGCCGGATGAGGCTGAGCCCAGCCGAGGAAGAGGAGGCG
 GTGGCTCTACATCTGGGCCGCTTTAGGGGGCTTGTTCGCTTCTCTCCCTGCGCCCAAG
 GGTCCGGCCTTGCTGCCTCCGCCCTCAGATGCTGGCGCAGCCTTTCCCCCGCGCTG
 TTGCTTCCCCACCCACCGGAGACCCAGGCTTCAGCCTCCTCCCCCTTGCCCTTCGGC
 CTGGGAGGCTTCCCCCACCTCCAGGCGTGAGCCCGGTGAAGCGGCGGGAGTTGGGGAG
 GGACTGGGATTGGGGTTGCCCTCGCCCCGAGGCCCTGGGCCTCATCTGCCCTCCATTG
 GCGGTGCCGCTCCCCGCTGGGGCTTNTCCAGCCAAAGAAGAAGAAAGAGCCCGTGAAG
 ATCGCGCCCGGAGTTGCATAAGGGAGATTGAGATTTCTGAGAAGATGAACCCACAAGAA
 GAAACTATCCTTCAGGNATCAGTGAGGGGACTGGTTNNGTCTGCTTNGCTCCCACCTAA
 AAAGTACTGTGAAGAGACTAACAGTTTGTCTGCCCATGCCTTCTCCGCAACCTCGGA
 TGCTCCCTGAACTAAGCCCTCGACTGGCTT

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_005973 unedited NAGTTTTAAAACCTTTTTTTGGCAAAGTGAATGTTTTATTTCAACAGACATCCCTGGT TTAAAAAAGTGGTGGTGGGAGGGTTCAACATTTATCACACCTGACAGAGAGCA AAACTCCCACCCAGAAGCTCAGAGCCCTTCGGAGGCATCACACAAGTCTTTGCTAGCTC CAGGACATTTAGGAGCTGAATTTCTAAGTGGGAAGAAAATCTATCAAATATGTTTCAT TCTCGCAGAGGCGAGGGCTGGGTCCTTGGGAAAGAGATCCTGGGCTTAGAGCAGCTGGG GTCCCAGAGGTGAAGCTGGGGCCAGCCAGCTGGGCTGGCAGGAGATCCTGGGAGCAAT CAGTTCCAGAGCCCTAGAATCCATATTTGGCTTGGGTCTGACGGCGGCTGAGCTTGTCT CTGACCAGGTGTTCTTCCAGTCCAGCTCCCGCTCCTTGGCCTGATGAATAAGATATGTGA TCTGGTGTTCGCCCGCTGCTGGCCTGTTGGCTGCTCACCTTTCTTTTGTGAATGACT TCATGGTTTTCTTCTGTCAATGACTTAGTCATCCATTGCTGGGCCCCACTGAGCTGGT CATCACCTTTGATCTCCACAAAGTTGATTTCTTCTCCTCCGTTCTTGCCTGCA GCCGCTTAAATGGCTCGTCATCGATGAAGGAGGCATCTGGGGCAATTCCTGGGGGGG GACCAGGGGCCGGTCCCTGTGCANGATAGTAGCCACACTGTTATAATCCTGATNATTA AGCACAGCGGCATTGGCATCGCCATATGTGAATACTGATTGTAGCTGTAGTCCGTCCTCC AGGCTAAGGATCCAAGGGGCCCC
Restriction Sites:	NotI-NotI
ACCN:	NM_005973
Insert Size:	2150 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).
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:	NM_005973.4 , NP_005964.3
RefSeq Size:	2142 bp
RefSeq ORF:	1476 bp
Locus ID:	5546
UniProt ID:	Q92733
Cytogenetics:	1q23.1
Protein Families:	Druggable Genome

Gene Summary:

This gene encodes a protein that may play a role in pre-mRNA splicing. Chromosomal translocations (X;1)(p11;q21) that result in fusion of this gene to TFE3 (GeneID 7030) have been associated with papillary renal cell carcinoma. A PRCC-TFE3 fusion protein is expressed in affected carcinomas and is likely associated with altered gene transactivation. This fusion protein has also been associated with disruption of the cell cycle.[provided by RefSeq, Aug 2010]