

Product datasheet for **RG203805**

Papillary renal cell carcinoma (PRCC) (NM_005973) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Papillary renal cell carcinoma (PRCC) (NM_005973) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Papillary renal cell carcinoma
Synonyms:	RCCP1; TPRC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RG203805 representing NM_005973
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGTCGCTGGTTGCTTACGCCAGCAGCGATGAGAGCGAGCCGGATGAGGCTGAGCCCGAGCCGGAGGAAG
 AGGAGGCGGTGGCTCCTACATCTGGGCCCGCTTTAGGGGGCTTGTTCGCTTCTCTCCCTGCGCCCAAGGG
 TCCGGCCTTGCTGCCTCCGCCCCCTCAGATGCTGGCGCCAGCCTTTCCCCCGCGCTGTTGCTTCCCCCA
 CCCACCGAGACCCAGGCTTCAGCCTCCTCCCCCTTGCCCTTCGGCCTGGGAGGCTTCCCCCACCTC
 CAGGCGTGAGCCCGGTGAAGCGCGGGAGTTGGGGAGGAGTGGGATTGGGGTTGCCCTCGCCCCGAGG
 CCCTGGCCTCAATCTGCCCCCTCAATTGGCGGTGCCGGTCCCCCGTGGGGCTTCCAAGCCAAAGAAG
 AGGAAAGAGCCCGTGAAGATCGCGGCGCCGAGTTGCATAAGGGAGATTAGATTCTGAGGAAGATGAAC
 CCACAAAGAAGAAACTATCCTTCAGGGATCCAGTGAGGGGACTGGTTTGTCTGCCTTGCTTCCCCAACC
 TAAAAACCTGACTGTGAAAGAGACTAACAGTTGCTCCTGCCCATGCCTTCTCCCGCAAACCTCGGAT
 GGTCCCCCTGATACTAAGCCCTCCAGACTGGCTTCTAAGACCAAGACTTCTCTCTTGCCCTGTTGTGG
 GCACCACAACCACCACTCCGTCGCCCTCTGCTATCAAGGCTGCTGCCAAGAGTGCTGCCCTGCAGGTGAC
 AAAGCAGATCACGCAGGAAGAAGACGACAGTGATGAGGAAGTAGCCCCGAAAACCTTTTCTCCCTCCCT
 GAAAAGGTGAGCCACCTGGAGTTGAGCCATACCTTACCCCATCCCCACTGTCCCTGAAGAGCTGCCTC
 CAGGCACGGAACCCAGAGCCGGCTTTCCAGGACGATGCAGCCAATGCCCCCTTGAATTCAAGATGGCAGC
 AGGTTCAAGTGGGGCCCTTGGATGCCTAAGCCTGGGACGACTACAGCTACAATCAGTTTTCCACATAT
 GGCGATGCCAATGCCGTGGTGCTTATTATCAGGATTATTACAGTGGTGGCTACTATCCTGCACAGGACC
 CGGCCCTGGTCCCCACCCAGGAAATTGCCCCAGATGCCTCCTTCATCGATGACGAAGCATTAAAGCGGCT
 GCAGGGCAAGAGGAACCGAGGGAGAGAAGAAATCAACTTTGTGGAGATCAAAGGTGATGACCAGCTCAGT
 GGGGCCACGAATGGATGACTAAGTCATTGACAGAAGAGAAAACCATGAAGTCATTACAGCAAAAAGAAAG
 GTGAGCAGCCAACAGGCCAGCAGCGGGGAAACACAGATCACATATCTTATTATCAGGCCAAGGAGCG
 GGAGCTGGAAGTGAAGAACACCTGGTCAGAGAACAAGCTCAGCCGCCGTGAGACCAAGCCAAATATGGA
 TTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG203805 representing NM_005973
 Red=Cloning site Green=Tags(s)

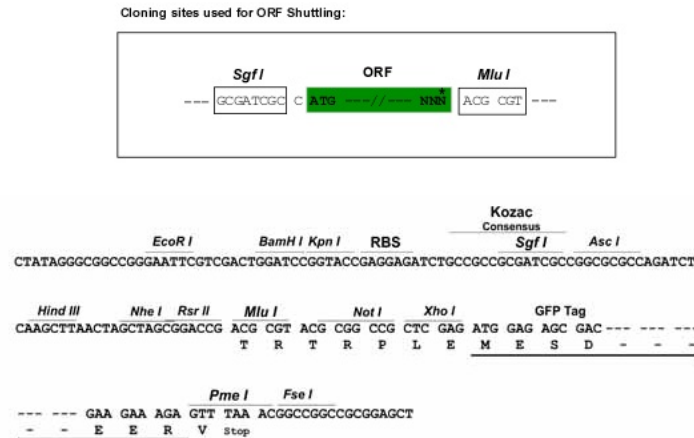
MSLVAYASSDESEPEDEAEPEPEEEEEAVAPTSGLPGLFASLPAPKGPALLPPPPQMLAPAFPPPLLLPP
 PTGDPRLQPPPLPFGLGGFPPPPGVSPAEEAGVGEGLGLSPRGPGLNLPPPIGGAGPPLGLPKPKK
 RKEPVKIAAPELHKGDSDEDEPTKKKTIILQGSSEGTGLSALLPQPKNLTVKETNRLLLPHAFSRKPSD
 GSPDTKPSRLASKTKTSSLAPVVGTTTTTPSPSAIKAAKSAALQVTKQITQEEDDSDEEVAPENFFSLP
 EKAEPGPVEPYPIPTVPEELPPGTEPEPAFQDDAANAPLEFKMAAGSSGAPWMPKPGDDYSYNQFSTY
 GDANAAGAYYQDYSGGYPAQDPALVPTQEIAPDASFIDDEAFKRLQGKRNRGREEINFVEIKGDDQLS
 GAQQWMTKSLTEKTMKSFSSKKGEQPTGQQRKHQITYLIHQAKERELELKNTWSENKLSRRQTQAKYGF

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_005973

ORF Size: 1473 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_005973.3](#)

RefSeq Size: 2142 bp

RefSeq ORF: 1476 bp

Locus ID: 5546

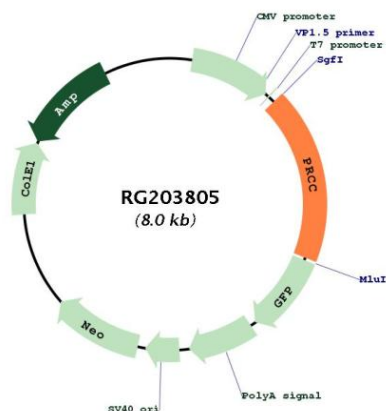
UniProt ID: [Q92733](#)

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]

Product images:



Circular map for RG203805