Gene Section
Short Communication

PRCC (papillary renal cell carcinoma)
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Identity
Other names: RCCP1 (renal cell carcinoma, papillary, 1)
HGNC (Hugo): PRCC
Location: 1q21.2

Probe(s) - Courtesy Mariano Rocchi, Resources for Molecular Cytogenetics.

DNA/RNA
Description
cDNA of 2039 bp.

Transcription
1989 bp RNA; coding sequence: CDS 191...1666.

Protein
Description
491 amino acids; 52 kDa; proline/leucine/glycine rich domain of 150 amino acids in N-term.

Expression
Wide; in the fetus and in the adult.

Homology
None is known.

Implicated in

\( t(X;1)(p11.2;q21.2) \) in renal cell carcinoma \( \rightarrow \) PRCC/TFE3

Disease
\( t(X;1) \) is a very rare subtype of papillary renal cell carcinoma

Prognosis
Overall 5-yr survival rate around 85%.

Hybrid/Mutated gene
5' PRCC - 3' TFE3; variable breakpoint in PRCC; breakpoint in the 1st intron of TFE3.

Abnormal protein
N-term PRCC with the proline rich sequence fused to most of TFE3, including the; the reciprocal TFE3-PRCC is expressed; it is to be noted that the normal TFE3 transcript is lost in female patients.

References


This article should be referenced as such: