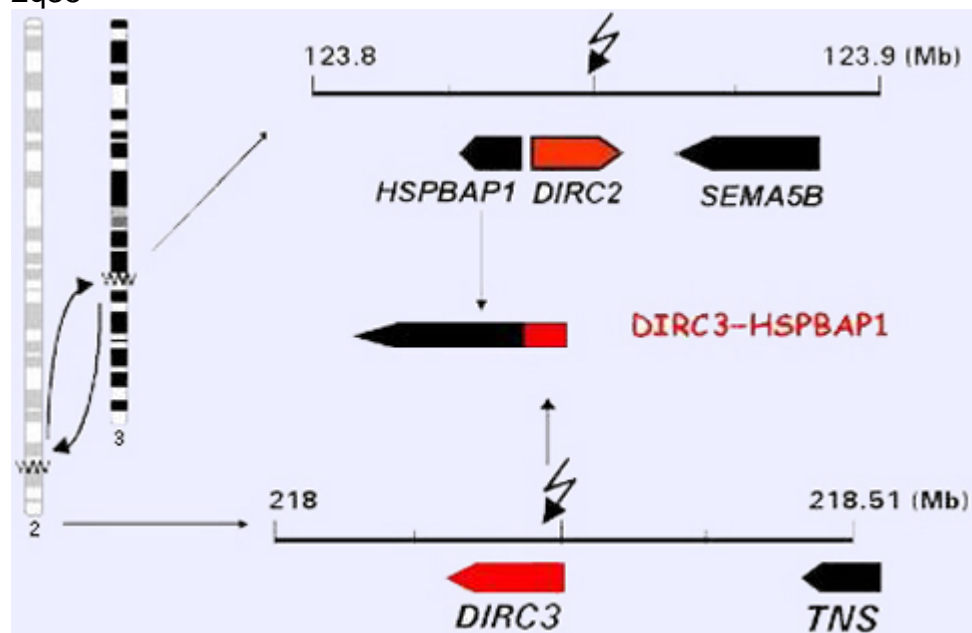


## DIRC3

### Identity

Location 2q35



### DNA/RNA

**Description** The gene spans 3071 bp and contains 12 exons. The last exon contains a consensus polyadenylation site sequence (AGTAA) at 20 nt upstream of the poly(a) addition site. DIRC3 expression could be detected in the placenta, but low expression was found in most tissues and the gene may act as a non-coding RNA.

### Implicated in

**Entity** t(2;3)(q35;q21) and hereditary renal cell cancer.

**Disease** [Familial renal cell cancer](#).

**Cytogenetics** Disruption of the gene because of the t(2;3) translocation.

A schematic overview of the breakpoint regions on chromosome 2 and 3 in a family with a t(2;3) translocation with the breakpoint genes [DIRC2](#) and DIRC3, the fusion protein DIRC3-[HSPBAP1](#) and their neighbouring genes. (TNS: tensin; SEMA5B: sema domain 5B)

**Abnormal Protein** DIRC3-HSPBAP1 is formed by replacing the first coding exon of HSPBAP1 by the first two exons of DIRC3. The fusion transcript most likely encodes a truncated HSPBAP1 protein starting from an internal initiation site embedded in a strong Kozak consensus sequence.

### External links

[GDB](#)

[Entrez Gene](#)

### Nomenclature

[DIRC3](#)

[DIRC3\\_378482](#) disrupted in renal carcinoma 3

### Cards

[Atlas](#)  
[GeneCards](#)  
[Ensembl](#)  
[Genatlas](#)  
[GeneLynx](#)  
[eGenome](#)  
[euGene](#)

[DIRC3ID498](#)  
[DIRC3](#)  
[DIRC3](#)  
[DIRC3](#)  
[DIRC3](#)  
[DIRC3](#)  
[DIRC3](#)  
[378482](#)

#### Genomic and cartography

[GoldenPath](#)  
[Ensembl](#)  
[NCBI](#)  
[OMIM](#)  
[HomoloGene](#)

[DIRC3](#) - [2q35](#)  
[DIRC3](#) - [\[CytoView\]](#)  
[Genes Cyto](#) [Gene Seq](#) [Map View - NCBI]  
[Disease map \[OMIM\]](#)  
[DIRC3](#)

#### Gene and transcription

[Genbank](#)  
[AceView](#)  
[TRASER](#)

- [ SRS ] - [ ENTREZ ]  
[DIRC3](#) AceView - NCBI  
[DIRC3](#) Traser - Stanford

#### Protein : pattern, domain, 3D structure

#### Polymorphism : SNP, mutations, diseases

[OMIM](#)  
[GENECLINICS](#)  
[SNP](#)  
[SNP](#)

[608262](#) [\[map\]](#)  
[608262](#)  
[DIRC3](#) [dbSNP-NCBI]  
[DIRC3](#) [GeneSNPs - Utah] [DIRC3](#) [SNP - CSHL] [DIRC3](#) [HGBASE - SRS]

#### General knowledge

[Family Browser](#)  
[PubGene](#)

[DIRC3](#) [UCSC Family Browser]  
[DIRC3](#)

#### Other databases

[Probes](#)  
[PubMed](#)

[PubMed](#)

[1 Pubmed reference\(s\) in LocusLink](#)

#### Bibliography

**Disruption of a novel gene, DIRC3, and expression of DIRC3-HSPBAP1 fusion transcripts in a case of familial renal cell cancer and t(2;3)(q35;q21).**

Bodmer D, Schepens M, Eleveld M, Schoenmakers EFPM, Geurts van Kessel A. Genes Chromosomes Cancer 2003; 38(2): 107-116.

Medline [12939738](#)

#### REVIEW articles

*automatic search in PubMed*

#### Last year

*automatic search in PubMed*

#### publications

#### BiblioGene - INIST

#### Contributor(s)

#### Written

10-2003 Anita Bonn , Danielle Bodmer, Marc Eleveld, Eric Schoenmakers, Ad Geurts van Kessel.

#### Citation

*This paper should be referenced as such :*

**Bonn  A, Bodmer D, Eleveld M, Schoenmakers EFPM, Geurts van Kessel A. .**

DIRC3. Atlas Genet Cytogenet Oncol Haematol. October 2003 .

URL : <http://www.infobiogen.fr/services/chromcancer/Genes/DIRC3ID498.html>

