

## Gene Section

### Short Communication

# CHIC2 (cystein-rich hydrophobic domain 2)

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### Identity

**Other names:** BTL (Brx-like translocated in leukemia)

**HGNC (Hugo):** CHIC2

**Location:** 4q11-q12



bA367N1

CHIC2 (4q12) - Courtesy Mariano Rocchi, Resources for Molecular Cytogenetics.

### DNA/RNA

#### Description

495 bp open reading frame.

#### Transcription

1034 bp mRNA.

### Protein

#### Description

165 amino acids with a hydrophobic domain (transmembrane domain).

#### Localisation

Vesicular structures and the plasma membrane.

### Function

Member of a highly conserved family of proteins with a cysteine-rich hydrophobic (CHIC) motif; resemble the cysteine string proteins, which function in exocytosis.

### Implicated in

#### *t(4;12)(q11;p13) in acute non lymphocytic leukemia (ANLL)*

##### Disease

These *t(4;12)(q11;p13)* are often M0-ANLL, with CD7+, CD13+, CD33+ immature myeloid phenotype.

##### Hybrid/Mutated gene

5' CHIC2 - 3' ETV6

##### Abnormal protein

N term CHIC2 with the first 110 amino acids (exons 1 to 3) fused to the 441 C term amino acids (exons 2 to 8) of ETV6.

### References

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Cools J, Mentens N, Marynen P. A new family of small, palmitoylated, membrane-associated proteins, characterized by the presence of a cysteine-rich hydrophobic motif. *FEBS Lett*. 2001 Mar 16;492(3):204-9

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