

Gene Section

Short Communication

CASC3 (cancer susceptibility candidate 3)

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Identity

Other names: MLN51

HGNC (Hugo): CASC3

Location: 17q11-17q21.3

Local order: From centromere to telomere are: TRAF4 (alias MLN62/CART1), Lasp1 (alias MLN50), MLN64, c-erbB2 and MLN51.

DNA/RNA

Description

Composed of 14 exons, gene size: approximately 16 kb.

Transcription

cDNA: 4.1 kb; coding sequence: 2111 bp.

Protein

Description

703 amino acids; theoretical molecular weight 76 kDa, observed molecular weight 115 kDa; contains a functional coiled-coil domain and two functional NLS at its N-terminal part; possesses a proline-rich region with four potential SH3 domain binding sites at its C-terminal part.

Expression

Ubiquitous.

Localisation

Cytoplasmic with a perinuclear accumulation.

Function

Unknown.

Homology

Counterparts can be deduced from mouse, zebrafish, worm and drosophila genomes.

Implicated in

Breast carcinomas

Note

Overexpression is found in 12 to 30% of primary breast carcinomas.

References

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