

Gene Section

Short Communication

BCAS3 (breast carcinoma amplified sequence 3)

Jean-Loup Huret, Sylvie Senon

Genetics, Dept Medical Information, UMR 8125 CNRS, University of Poitiers, CHU Poitiers Hospital, F-86021 Poitiers, France (JLH, SS)

Published in Atlas Database: May 2004

Online updated version: <http://AtlasGeneticsOncology.org/Genes/BCAS3ID766.html>

DOI: 10.4267/2042/38089

This work is licensed under a Creative Commons Attribution-Noncommercial-No Derivative Works 2.0 France Licence.
© 2004 Atlas of Genetics and Cytogenetics in Oncology and Haematology

Identity

Other names: MAAB; GAOB1

HGNC (Hugo): BCAS3

Location: 17q23

DNA/RNA

Description

Spans 715 kb; orientation direct strand; at least 77 exons.

Transcription

Alternate splicings: 3.9 kb, 3.3 kb, 2.3 kb, 1.5 kb, 1.3 kb.

Protein

Expression

Ubiquitous.

Localisation

Nuclear (potential).

Implicated in

BCAS3 is overexpressed in about 10% of breast cancers, and a hybrid gene BCAS4-BCAS3 was found in breast cancer cell line with a t(17;20)(q23;q13)

Hybrid/Mutated gene

5' BCAS4 is fused to the 2 last exons (23 and 24) of BCAS3; transcript includes exon 1 from BCAS4 and 21 bp from BCAS3 exon 23; it encodes a 66 aminoacids protein; no reciprocal transcript.

References

Bärlund M, Monni O, Weaver JD, Kauraniemi P, Sauter G, Heiskanen M, Kallioniemi OP, Kallioniemi A. Cloning of BCAS3 (17q23) and BCAS4 (20q13) genes that undergo amplification, overexpression, and fusion in breast cancer. *Genes Chromosomes Cancer*. 2002 Dec; 35(4):311-7

This article should be referenced as such:

Huret JL, Senon S. BCAS3 (breast carcinoma amplified sequence 3). *Atlas Genet Cytogenet Oncol Haematol*. 2004; 8(3):199.