

## BCAS4 (breast carcinoma amplified sequence 4)

### Identity

Other names **BHLHB4**  
**FLJ20495**  
 Hugo **BCAS4**  
 Location 20q13

### DNA/RNA

Description spans 82 kb; orientation direct strand; 19 exons  
 Transcription alternate splicings

### Protein

Expression ubiquitous  
 Localisation cytoplasmic

### Implicated in

Entity BCAS4 is overexpressed in 3.5% 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

### External links

	<b>Nomenclature</b>
<a href="#">Hugo</a>	<a href="#">BCAS4</a>
<a href="#">GDB</a>	<a href="#">BCAS4</a>
<a href="#">Entrez Gene</a>	<a href="#">BCAS4 55653</a> breast carcinoma amplified sequence 4
	<b>Cards</b>
<a href="#">Atlas</a>	<a href="#">BCAS4ID767</a>
<a href="#">GeneCards</a>	<a href="#">BCAS4</a>
<a href="#">Ensembl</a>	<a href="#">BCAS4</a>
<a href="#">CancerGene</a>	<a href="#">BCAS4</a>
<a href="#">Genatlas</a>	<a href="#">BCAS4</a>
<a href="#">GeneLynx</a>	<a href="#">BCAS4</a>
<a href="#">eGenome</a>	<a href="#">BCAS4</a>
<a href="#">euGene</a>	<a href="#">55653</a>
	<b>Genomic and cartography</b>
<a href="#">GoldenPath</a>	<a href="#">BCAS4 - 20q13</a> <a href="#">chr20:48844874-48927120 + 20q13.13</a> (hg17-May_2004)
<a href="#">Ensembl</a>	<a href="#">BCAS4 - 20q13.13 [CytoView]</a>
<a href="#">NCBI</a>	<a href="#">Genes Cyto</a> <a href="#">Gene Seq</a> [Map View - NCBI]
<a href="#">OMIM</a>	<a href="#">Disease map [OMIM]</a>
<a href="#">HomoloGene</a>	<a href="#">BCAS4</a>
	<b>Gene and transcription</b>
<a href="#">Genbank</a>	<a href="#">AL133228</a> [SRS] <a href="#">AL133228</a> [ENTREZ]
<a href="#">Genbank</a>	<a href="#">AF361220</a> [SRS] <a href="#">AF361220</a> [ENTREZ]

[Genbank](#) [AJ511266](#) [SRS] [AJ511266](#) [ENTREZ]  
[Genbank](#) [AK000502](#) [SRS] [AK000502](#) [ENTREZ]  
[Genbank](#) [BC038381](#) [SRS] [BC038381](#) [ENTREZ]  
[RefSeq](#) [NM\\_001010974](#) [SRS] [NM\\_001010974](#) [ENTREZ]  
[RefSeq](#) [NM\\_017843](#) [SRS] [NM\\_017843](#) [ENTREZ]  
[RefSeq](#) [NM\\_198799](#) [SRS] [NM\\_198799](#) [ENTREZ]  
[RefSeq](#) [NT\\_086910](#) [SRS] [NT\\_086910](#) [ENTREZ]  
[AceView](#) [BCAS4](#) AceView - NCBI  
[TRASER](#) [BCAS4](#) Traser - Stanford  
[Unigene](#) [Hs.381178](#) [SRS] [Hs.381178](#) [NCBI] [HS381178](#) [spliceNest]

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

[SwissProt](#) [Q8TDM0](#) [SRS] [Q8TDM0](#) [EXPASY] [Q8TDM0](#) [INTERPRO]  
[CluSTr](#) [Q8TDM0](#)  
[Blocks](#) [Q8TDM0](#)

### Polymorphism : SNP, mutations, diseases

[OMIM](#) [607471](#) [map]  
[GENECLINICS](#) [607471](#)  
[SNP](#) [BCAS4](#) [dbSNP-NCBI]  
[SNP](#) [NM\\_001010974](#) [SNP-NCI]  
[SNP](#) [NM\\_017843](#) [SNP-NCI]  
[SNP](#) [NM\\_198799](#) [SNP-NCI]  
[SNP](#) [BCAS4](#) [GeneSNPs - Utah] [BCAS4](#) [SNP - CSHL] [BCAS4](#) [HGBASE - SRS]

### General knowledge

[Family Browser](#) [BCAS4](#) [UCSC Family Browser]  
[SOURCE](#) [NM\\_001010974](#)  
[SOURCE](#) [NM\\_017843](#)  
[SOURCE](#) [NM\\_198799](#)  
[SMD](#) [Hs.381178](#)  
[SAGE](#) [Hs.381178](#)  
[PubGene](#) [BCAS4](#)

### Other databases

#### Probes

[Probe](#) [BCAS4](#) Related clones (RZPD - Berlin)

#### PubMed

[PubMed](#) [3](#) [Pubmed reference\(s\) in LocusLink](#)

### Bibliography

**Cloning of BCAS3 (17q23) and BCAS4 (20q13) genes that undergo amplification, overexpression, and fusion in breast cancer.**

Genes Chromosomes Cancer. 2002; 35: 311-317.

Barlund M, Monni O, Weaver JD, Kauraniemi P, Sauter G, Heiskanen M, Kallioniemi OP, Kallioniemi A.

Medline [12378525](#)

[REVIEW articles](#) *automatic* search in PubMed

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URL : <http://www.infobiogen.fr/services/chromcancer/Genes/BCAS4ID767.html>

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