

BCL9 (B-cell CLL/lymphoma 9)

Identity

Hugo [BCL9](#)
 Location 1q21

DNA/RNA

Description 10 exons spanning 85 kb.
 Transcription transcripts of 1.6, 4.2, and 6.3 kb.

Protein

Description 1426 amino acids, 149 kDa.
 Expression wide
 Function Binds to [beta-catenin](#) required for [Wnt signal transduction](#)
 Homology drosophila segment polarity gene legless, encoding wingless-armadillo (WNT - beta-catenin) signaling molecule

Implicated in

Entity [t\(1;14\)\(q21;q32\)](#) and [t\(1;22\)\(q21;q11\)](#)
 Disease acute lymphoblastic leukemia and non Hodgkin lymphoma
 Hybrid/Mutated BCL9 is juxtaposed either with the immunoglobulin heavy chain locus
 Gene IgH (14q32) or the lambda light-chain locus Igl (22q11)

External links

Nomenclature
[Hugo](#) [BCL9](#)
[GDB](#) [BCL9](#)
[Entrez_Gene](#) [BCL9](#) [607](#) B-cell CLL/lymphoma 9

Cards
[Atlas](#) [BCL9ID466](#)
[GeneCards](#) [BCL9](#)
[Ensembl](#) [BCL9](#)
[CancerGene](#) [BCL9](#)
[Genatlas](#) [BCL9](#)
[GeneLynx](#) [BCL9](#)
[eGenome](#) [BCL9](#)
[euGene](#) [607](#)

Genomic and cartography
[GoldenPath](#) [BCL9](#) - [1q21](#) [chr1:144237998-144322828](#) + [1q21.1](#) (hg17-May_2004)
[Ensembl](#) [BCL9](#) - [1q21.1](#) [[CytoView](#)]
[NCBI](#) [Genes Cyto](#) [Gene Seq](#) [Map View - NCBI]
[OMIM](#) [Disease map](#) [OMIM]
[HomoloGene](#) [BCL9](#)

Gene and transcription
[Genbank](#) [AL359207](#) [SRS] [AL359207](#) [ENTREZ]
[Genbank](#) [Y13620](#) [SRS] [Y13620](#) [ENTREZ]
[RefSeq](#) [NM_004326](#) [SRS] [NM_004326](#) [ENTREZ]
[RefSeq](#) [NT_086594](#) [SRS] [NT_086594](#) [ENTREZ]

AceView	BCL9 AceView - NCBI
TRASER	BCL9 Traser - Stanford
Unigene	Hs.415209 [SRS] Hs.415209 [NCBI] HS415209 [spliceNest]
Protein : pattern, domain, 3D structure	
SwissProt	O00512 [SRS] O00512 [EXPASY] O00512 [INTERPRO]
CluSTr	O00512
Blocks	O00512
Polymorphism : SNP, mutations, diseases	
OMIM	602597 [map]
GENECLINICS	602597
SNP	BCL9 [dbSNP-NCBI]
SNP	NM_004326 [SNP-NCI]
SNP	BCL9 [GeneSNPs - Utah] BCL9 [SNP - CSHL] BCL9 [HGBASE - SRS]
General knowledge	
Family Browser	BCL9 [UCSC Family Browser]
SOURCE	NM_004326
SMD	Hs.415209
SAGE	Hs.415209
Amigo	process Wnt receptor signaling pathway
Amigo	component nucleus
PubGene	BCL9
Other databases	
Probes	
Probe	BCL9 Related clones (RZPD - Berlin)
PubMed	
PubMed	2 Pubmed reference(s) in LocusLink

Bibliography

Molecular cloning of translocation t(1;14)(q21;q32) defines a novel gene (BCL9) at chromosome 1q21.

Willis TG, Zalcborg IR, Coignet LJ, Wlodarska I, Stul M, Jadayel DM, Bastard C, Treleaven JG, Catovsky D, Silva ML, Dyer MJ.
 Blood 1998; 91: 1873-1881.
 Medline [9490669](#)

Wnt/wingless signaling requires BCL9/legless-mediated recruitment of pygopus to the nuclear beta-catenin-TCF complex.

Kramps T, Peter O, Brunner E, Nellen D, Froesch B, Chatterjee S, Murone M, Zullig S, Basler K.
 Cell. 2002; 109: 47-60.
 Medline [11955446](#)

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

[Last year publications](#) *automatic search in PubMed*

[BiblioGene - INIST](#)

Contributor(s)

Written 02-2003 Jean-Loup Huret, Sylvie Senon

Citation

This paper should be referenced as such :

Huret JL, Senon S . BCL9 (B-cell CLL/lymphoma 9). Atlas Genet Cytogenet Oncol

Haematol. February 2003 .

URL : <http://www.infobiogen.fr/services/chromcancer/Genes/BCL9ID466.html>

© *Atlas of Genetics and Cytogenetics in Oncology and Haematology*
