

## CAGE-1 (cancer-associated gene-1)

### Identity

Hugo [CAGE1](#)  
 Location 6p24.3

### DNA/RNA

Description spans 63 kb; 11 exons; ORF: 1920 bp

### Protein

Description 639 amino acids; 73 kDa; carry 2 consensus glycosylation sites, 10 PKC dependent phosphorylation sites  
 Expression testis-restricted in normal tissues; wide/high expression in various cancer tissues (lung, cervix, stomach) CAG1 is a probable member of the cancer/testis antigen family  
 Localisation mainly nuclear  
 Function may be involved in signaling pathway  
 Homology with monkey genes with testis specific expression

### Mutations

Somatic may be associated with tumor progression .

### External links

	<b>Nomenclature</b>
<a href="#">Hugo</a>	<a href="#">CAGE1</a>
<a href="#">GDB</a>	<a href="#">CAGE1</a>
<a href="#">Entrez Gene</a>	<a href="#">CAGE1</a> <a href="#">285782</a> cancer antigen 1
	<b>Cards</b>
<a href="#">Atlas</a>	<a href="#">CAG1ID475</a>
<a href="#">GeneCards</a>	<a href="#">CAGE1</a>
<a href="#">Ensembl</a>	<a href="#">CAGE1</a>
<a href="#">Genatlas</a>	<a href="#">CAGE1</a>
<a href="#">GeneLynx</a>	<a href="#">CAGE1</a>
<a href="#">eGenome</a>	<a href="#">CAGE1</a>
<a href="#">euGene</a>	<a href="#">285782</a>
	<b>Genomic and cartography</b>
<a href="#">GoldenPath</a>	<a href="#">CAGE1</a> - <a href="#">6p24.3</a> <a href="#">chr6:7271890-7334638</a> - <a href="#">6p24.3</a> (hg17-May_2004)
<a href="#">Ensembl</a>	<a href="#">CAGE1</a> - <a href="#">6p24.3</a> [ <a href="#">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</a> [ <a href="#">OMIM</a> ]
<a href="#">HomoloGene</a>	<a href="#">CAGE1</a>
	<b>Gene and transcription</b>
<a href="#">Genbank</a>	<a href="#">AF414185</a> [SRS] <a href="#">AF414185</a> [ENTREZ]
<a href="#">Genbank</a>	<a href="#">AK097760</a> [SRS] <a href="#">AK097760</a> [ENTREZ]
<a href="#">Genbank</a>	<a href="#">BC026188</a> [SRS] <a href="#">BC026188</a> [ENTREZ]
<a href="#">Genbank</a>	<a href="#">BC026194</a> [SRS] <a href="#">BC026194</a> [ENTREZ]
<a href="#">Genbank</a>	<a href="#">BC033545</a> [SRS] <a href="#">BC033545</a> [ENTREZ]
<a href="#">RefSeq</a>	<a href="#">NM_175745</a> [SRS] <a href="#">NM_175745</a> [ENTREZ]
<a href="#">RefSeq</a>	<a href="#">NM_205864</a> [SRS] <a href="#">NM_205864</a> [ENTREZ]

<a href="#">RefSeq</a>	<a href="#">NT_086686</a> [SRS] <a href="#">NT_086686</a> [ENTREZ]
<a href="#">AceView</a>	<a href="#">CAGE1</a> AceView - NCBI
<a href="#">TRASER</a>	<a href="#">CAGE1</a> Traser - Stanford
<a href="#">Unigene</a>	<a href="#">Hs.367936</a> [SRS] <a href="#">Hs.367936</a> [NCBI] <a href="#">HS367936</a> [spliceNest]
<b>Protein : pattern, domain, 3D structure</b>	
<a href="#">SwissProt</a>	<a href="#">Q8N7R5</a> [SRS] <a href="#">Q8N7R5</a> [EXPASY] <a href="#">Q8N7R5</a> [INTERPRO]
<a href="#">CluSTR</a>	<a href="#">Q8N7R5</a>
<a href="#">Blocks</a>	<a href="#">Q8N7R5</a>
<b>Polymorphism : SNP, mutations, diseases</b>	
<a href="#">OMIM</a>	<a href="#">608304</a> [ <a href="#">map</a> ]
<a href="#">GENECLINICS</a>	<a href="#">608304</a>
<a href="#">SNP</a>	<a href="#">CAGE1</a> [dbSNP-NCBI]
<a href="#">SNP</a>	<a href="#">NM_175745</a> [SNP-NCI]
<a href="#">SNP</a>	<a href="#">NM_205864</a> [SNP-NCI]
<a href="#">SNP</a>	<a href="#">CAGE1</a> [GeneSNPs - Utah] <a href="#">CAGE1</a> [SNP - CSHL] <a href="#">CAGE1</a> [HGBASE - SRS]
<b>General knowledge</b>	
<a href="#">Family Browser</a>	<a href="#">CAGE1</a> [UCSC Family Browser]
<a href="#">SOURCE</a>	<a href="#">NM_175745</a>
<a href="#">SOURCE</a>	<a href="#">NM_205864</a>
<a href="#">SMD</a>	<a href="#">Hs.367936</a>
<a href="#">SAGE</a>	<a href="#">Hs.367936</a>
<a href="#">PubGene</a>	<a href="#">CAGE1</a>
<b>Other databases</b>	
<b>Probes</b>	
<a href="#">Probe</a>	<a href="#">CAGE1</a> Related clones (RZPD - Berlin)
<b>PubMed</b>	
<a href="#">PubMed</a>	<a href="#">3 Pubmed reference(s) in LocusLink</a>

## Bibliography

### Identification and characterization of a novel cancer/testis antigen gene CAGE-1.

Park S, Lim Y, Lee D, Cho B, Bang YJ, Sung S, Kim HY, Kim DK, Lee YS, Song Y, Jeoung DI.

Biochim Biophys Acta. 2003; 1625: 173-182.

Medline [12531476](#)

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

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

[BiblioGene - INIST](#)

## Contributor(s)

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URL : <http://www.infobiogen.fr/services/chromcancer/Genes/CAG1ID475.html>

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