

## TAF15 (TAF15 TAF15 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 68kDa)

### Identity

Other names	<b>TAFIIN</b> <b>TAF2N (TATA box binding protein (TBP)-associated factor, RNA polymerase II, N)</b> <b>RBP56 (RNA binding protein 56)</b> <b>TAFII68</b>
Hugo	<a href="#">TAF2N</a>
Location	17q11.1-q11.2

### DNA/RNA

Description	spans 37kb; 16 exons
Transcription	2.2 kb mRNA; alternative splicing: two isoforms of cDNAs consisting of 2144 and 2153 bp; coding sequence 1778 bp

### Protein

Description	589 and 592 amino acid, 62 kDa ; comprises a N-term ser, tyr, gln, gly - rich region, followed by a an RNA binding domain and a Cys2/Cys2 finger motif, and repeats in C-term
Expression	wide; in the fetus and in the adult
Localisation	nuclear
Function	single strand DNA/RNA binding protein; part of theTFIID and RNA polymerase II complex of proteins which assemble on the promoter to form a pre-initiation complex (PIC); TFIID is composed of a TATA-box-binding protein (TBP) and a number of TBP-associated factors (TAFIIS); contribute to the activation of transcription
Homology	with <a href="#">EWSR1 ID: 85 and END PROTEIN DESCRIPTION</a>

### Mutations

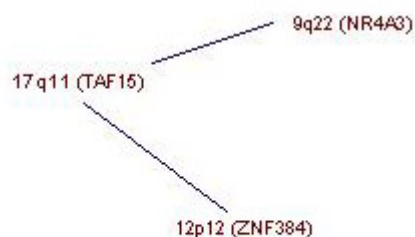
Somatic	overexpression of TAF2N- FLI-1 chimeras in NIH3T3 cells leads to oncogenic transformation
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### Implicated in

Entity	<a href="#">extraskelatal myxoid chondrosarcomas with t(9;17)(q22;q11)</a> --> 5 prime TAF2N/ 3 prime <a href="#">TEC</a>
Disease	a rare tumour: 2.3% of soft tissue sarcomas often localized in deep soft

tissues of the lower extremities

## Breakpoints



TAF15 and partners. Editor 08/2005.

## External links

### Nomenclature

<a href="#">Hugo</a>	<a href="#">TAF2N</a>
<a href="#">GDB</a>	<a href="#">TAF15</a>
<a href="#">Entrez Gene</a>	<a href="#">TAF15 8148</a> TAF15 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 68kDa

### Cards

<a href="#">Atlas</a>	<a href="#">TAF2NID256</a>
<a href="#">GeneCards</a>	<a href="#">TAF15</a>
<a href="#">Ensembl</a>	<a href="#">TAF15</a>
<a href="#">Genatlas</a>	<a href="#">TAF15</a>
<a href="#">GeneLynx</a>	<a href="#">TAF15</a>
<a href="#">eGenome</a>	<a href="#">TAF15</a>
<a href="#">euGene</a>	<a href="#">8148</a>

### Genomic and cartography

<a href="#">GoldenPath</a>	<a href="#">TAF15</a> - <a href="#">chr17:31160601-31198350 + 17q12</a> (hg18-Mar_2006)
<a href="#">Ensembl</a>	<a href="#">TAF15 - 17q12 [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="#">TAF15</a>

### Gene and transcription

<a href="#">Genbank</a>	<a href="#">BC030591</a> [ENTREZ]
<a href="#">Genbank</a>	<a href="#">BC039129</a> [ENTREZ]
<a href="#">Genbank</a>	<a href="#">BC046099</a> [ENTREZ]
<a href="#">Genbank</a>	<a href="#">BC048985</a> [ENTREZ]
<a href="#">Genbank</a>	<a href="#">U51334</a> [ENTREZ]

<a href="#">RefSeq</a>	<a href="#">NM_003487</a> [SRS] <a href="#">NM_003487</a> [ENTREZ]
<a href="#">RefSeq</a>	<a href="#">NM_139215</a> [SRS] <a href="#">NM_139215</a> [ENTREZ]
<a href="#">AceView</a>	<a href="#">TAF15</a> AceView - NCBI
<a href="#">TRASER</a>	<a href="#">TAF15</a> Traser - Stanford
<a href="#">Unigene</a>	<a href="#">Hs.402752</a> [SRS] <a href="#">Hs.402752</a> [NCBI] <a href="#">HS402752</a> [spliceNest]
<b>Protein : pattern, domain, 3D structure</b>	
<a href="#">SwissProt</a>	<a href="#">Q86X94</a> [SRS] <a href="#">Q86X94</a> [EXPASY] <a href="#">Q86X94</a> [INTERPRO]
<a href="#">Prosite</a>	<a href="#">PS50102 RRM</a> [SRS] <a href="#">PS50102 RRM</a> [Expasy]
<a href="#">Prosite</a>	<a href="#">PS01358 ZF_RANBP2_1</a> [SRS] <a href="#">PS01358 ZF_RANBP2_1</a> [Expasy]
<a href="#">Prosite</a>	<a href="#">PS50199 ZF_RANBP2_2</a> [SRS] <a href="#">PS50199 ZF_RANBP2_2</a> [Expasy]
<a href="#">Interpro</a>	<a href="#">IPR012677 a_b_plait_nuc_bd</a> [SRS] <a href="#">IPR012677 a_b_plait_nuc_bd</a> [EBI]
<a href="#">Interpro</a>	<a href="#">IPR002952 Eggshell</a> [SRS] <a href="#">IPR002952 Eggshell</a> [EBI]
<a href="#">Interpro</a>	<a href="#">IPR011368 EWS_RNA_bd</a> [SRS] <a href="#">IPR011368 EWS_RNA_bd</a> [EBI]
<a href="#">Interpro</a>	<a href="#">IPR000504 RNP1_RNA_bd</a> [SRS] <a href="#">IPR000504 RNP1_RNA_bd</a> [EBI]
<a href="#">Interpro</a>	<a href="#">IPR001876 Znf_RanBP2</a> [SRS] <a href="#">IPR001876 Znf_RanBP2</a> [EBI]
<a href="#">CluSTr</a>	<a href="#">Q86X94</a>
<a href="#">Pfam</a>	<a href="#">PF00076 RRM_1</a> [SRS] <a href="#">PF00076 RRM_1</a> [Sanger] <a href="#">pfam00076</a> [NCBI-CDD]
<a href="#">Pfam</a>	<a href="#">PF00641 zf-RanBP</a> [SRS] <a href="#">PF00641 zf-RanBP</a> [Sanger] <a href="#">pfam00641</a> [NCBI-CDD]
<a href="#">Smart</a>	<a href="#">SM00360 RRM</a> [EMBL]
<a href="#">Smart</a>	<a href="#">SM00547 ZnF_RBZ</a> [EMBL]
<a href="#">Blocks</a>	<a href="#">Q86X94</a>
<b>Protein Interaction databases</b>	
<a href="#">DIP</a>	<a href="#">Q86X94</a>
<a href="#">IntAct</a>	<a href="#">Q86X94</a>
<b>Polymorphism : SNP, mutations, diseases</b>	
<a href="#">OMIM</a>	<a href="#">601574</a> [ <a href="#">map</a> ]
<a href="#">GENECLINICS</a>	<a href="#">601574</a>
<a href="#">SNP</a>	<a href="#">TAF15</a> [dbSNP-NCBI]
<a href="#">SNP</a>	<a href="#">NM_003487</a> [SNP-NCI]
<a href="#">SNP</a>	<a href="#">NM_139215</a> [SNP-NCI]
<a href="#">SNP</a>	<a href="#">TAF15</a> [GeneSNPs - Utah] <a href="#">TAF15</a> [HGBASE - SRS] <a href="#">TAF15</a> [SNP - HAPMAP]
<b>General knowledge</b>	
<a href="#">Family Browser</a>	<a href="#">TAF15</a> [UCSC Family Browser]
<a href="#">SOURCE</a>	<a href="#">NM_003487</a>
<a href="#">SOURCE</a>	<a href="#">NM_139215</a>
<a href="#">SMD</a>	<a href="#">Hs.402752</a>

<a href="#">SAGE</a>	<a href="#">Hs.402752</a>
<a href="#">Amigo</a>	<a href="#">nucleotide binding</a>
<a href="#">Amigo</a>	<a href="#">DNA binding</a>
<a href="#">Amigo</a>	<a href="#">single-stranded DNA binding</a>
<a href="#">Amigo</a>	<a href="#">RNA polymerase II transcription factor activity</a>
<a href="#">Amigo</a>	<a href="#">single-stranded RNA binding</a>
<a href="#">Amigo</a>	<a href="#">nucleus</a>
<a href="#">Amigo</a>	<a href="#">transcription factor TFIID complex</a>
<a href="#">Amigo</a>	<a href="#">zinc ion binding</a>
<a href="#">Amigo</a>	<a href="#">metal ion binding</a>
<a href="#">PubGene</a>	<a href="#">TAF15</a>

#### Other databases

#### Probes

[Probe](#) [TAF2N Related clones \(RZPD - Berlin\)](#)

#### PubMed

[PubMed](#) [19 Pubmed reference\(s\) in LocusLink](#)

### Bibliography

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Reese JC, Apone L, Walker SS, Griffin LA, Green MR.

Nature 1994; 371: 523-527.

Medline [95021683](#)

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Medline [97124846](#)

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**with translocation t(9;17)(q22;q11).**

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Medline [20071144](#)

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Medline [20105775](#)

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Medline [20130694](#)

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URL : <http://AtlasGeneticsOncology.org/Genes/TAF2NID256.html>

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