

MYEOV

Identity

Note	detected by application of the NIH/3T3 tumorigenicity assay. However MYEOV cDNA was not positive in NIH/3T3 assay.
Other names	OCIM
Hugo	MYEOV
Location	11q13 350 kb centromeric of cyclin D1

DNA/RNA

Description	2 exons; 3.5 kb transcript represents unspliced mRNA.
Transcription	main transcript 2.8 kb (broad band because of alternative splice products); minor transcript 3.5 kb.; coding sequence 313 or 255 amino acids. In normal tissues hardly any expression detectable. High expression in a subset of multiple myeloma cell lines with a t(11;14)(q13;q32) and in breast tumors and esophageal squamous cell carcinomas with or without 11q13 amplification.

Protein

Description	313 or 255 amino acids; contains one RNP-1 motif and 6 regions that might function as a transmembrane domain. Leucine-rich stretch at C-terminal.
Expression	5' UTR inhibits efficient translation of the protein
Localisation	in endoplasmic reticulum and mitochondria.

Implicated in

Entity	t(11;14)(q13;q32)
Disease	subset of multiple myeloma cell lines with t(11;14)(q13;q32)
Cytogenetics	myeov overexpression due to juxtaposition to the 5' enhancer or the most telomeric 3' enhancer of the immunoglobulin heavy chain (IgH).

Entity	11q13 amplification and/or overexpression
Disease	breast cancer ; esophageal squamous cell carcinomas.
Prognosis	MYEOV DNA amplification correlated with estrogen and progesterone receptor-positive cancer, invasive lobular carcinoma type and axillary nodal involvement. In contrast to Cyclin D1 amplification, no association with disease outcome could be found.

External links

	Nomenclature
Hugo	MYEOV
GDB	MYEOV
Entrez_Gene	MYEOV_26579 myeloma overexpressed gene (in a subset of t(11;14) positive multiple myelomas)
	Cards
Atlas	MYEOVID395
GeneCards	MYEOV

[Ensembl](#) [MYEOV](#)
[CancerGene](#) [MYEOV](#)
[Genatlas](#) [MYEOV](#)
[GeneLynx](#) [MYEOV](#)
[eGenome](#) [MYEOV](#)
[euGene](#) [26579](#)

Genomic and cartography

[GoldenPath](#) [MYEOV - 11q13 chr11:68818198-68821329 + 11q13.3](#) (hg17-May_2004)
[Ensembl](#) [MYEOV - 11q13.3 \[CytoView\]](#)
[NCBI](#) [Genes Cyto](#) [Gene Seq](#) [Map View - NCBI]
[OMIM](#) [Disease map \[OMIM\]](#)
[HomoloGene](#) [MYEOV](#)

Gene and transcription

[Genbank](#) [AJ223366](#) [SRS] [AJ223366](#) [ENTREZ]
[Genbank](#) [AK026148](#) [SRS] [AK026148](#) [ENTREZ]
[Genbank](#) [BC011815](#) [SRS] [BC011815](#) [ENTREZ]
[Genbank](#) [BM785815](#) [SRS] [BM785815](#) [ENTREZ]
[Genbank](#) [BM809741](#) [SRS] [BM809741](#) [ENTREZ]
[RefSeq](#) [NM_138768](#) [SRS] [NM_138768](#) [ENTREZ]
[RefSeq](#) [NT_086784](#) [SRS] [NT_086784](#) [ENTREZ]
[AceView](#) [MYEOV](#) AceView - NCBI
[TRASER](#) [MYEOV](#) Traser - Stanford
[Unigene](#) [Hs.523848](#) [SRS] [Hs.523848](#) [NCBI] [HS523848](#) [spliceNest]

Protein : pattern, domain, 3D structure

[SwissProt](#) [Q96EZ4](#) [SRS] [Q96EZ4](#) [EXPASY] [Q96EZ4](#) [INTERPRO]
[CluSTR](#) [Q96EZ4](#)
[Blocks](#) [Q96EZ4](#)

Polymorphism : SNP, mutations, diseases

[OMIM](#) [605625](#) [map]
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[SNP](#) [MYEOV](#) [dbSNP-NCBI]
[SNP](#) [NM_138768](#) [SNP-NCI]
[SNP](#) [MYEOV](#) [GeneSNPs - Utah] [MYEOV](#) [SNP - CSHL] [MYEOV](#) [HGBASE - SRS]

General knowledge

[Family Browser](#) [MYEOV](#) [UCSC Family Browser]
[SOURCE](#) [NM_138768](#)
[SMD](#) [Hs.523848](#)
[SAGE](#) [Hs.523848](#)
[PubGene](#) [MYEOV](#)

Other databases

Probes

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

PubMed

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

Bibliography

Concurrent activation of a novel putative transforming gene, myeov, and cyclin D1 in a subset of multiple myeloma cell lines with t(11;14)(q13;q32).

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Medline [10753852](#)

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Janssen JWG, Imoto I, Inoue J, Shimada Y, Ueda M, Imamura M, Bartram CR, Inazawa J.
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Janssen JWG, Cuny M, Oeawrri B, Rodriguez C, Vall s H, Bartram CR, Schuurin E, Theillet C.
Int J Cancer 2002; 102(6): 608-614.
Medline [12448002](#)

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URL : <http://www.infobiogen.fr/services/chromcancer/Genes/MYEOVID395.html>

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