

LHFP (lipoma HMGIC fusion partner)

Identity

Hugo [LHFP](#)
Location 13q12

DNA/RNA

Description Exon-intron structure not described.
Transcription mRNA: ubiquitously: 2.4 kb; The ATG start codon is immediately preceded by an in-frame stop codon, and matches the most important positions of the Kozak consensus sequence; the 3'-UTR contains a CA-repeat.
Pseudogene No pseudogenes according to pseudogene.org.

Protein

200 amino acids.

Description Database searches with the predicted LHFP amino acid sequences revealed no significant similarity to any known gene or protein or any known protein motif.

Expression Not known.

Localisation Not known.

Function Not known.

Homology LHFP is a member of a family of proteins, which contains 6 members: LHFP, LHFPL1, LHFPL2, LHFPL3, LHFPL4, LHFPL5.

Mutations

Somatic [HMGA2](#)/LHFP fusion gene encoding the three DNA-binding domains of HMGA2 followed by 69 amino acids encoded by frame-shifted LHFP sequences.

Implicated in

Entity [Solitary lipomas](#).

Disease Benign tumors of adipose tissue

Prognosis Can be surgically removed with no recurrence in most cases.

Cytogenetics More than 60% of solitary lipomas have an aberrant karyotype: 2/3 of these carry 12q15 rearrangements, most often translocations, affecting the HMGA2 gene:
1/4 of the latter have chromosomal region 3q27-q28 (containing [LPP](#)) as 12q15 translocation partner (creating a HMGA2/LPP fusion gene).

In the 3/4 others, multiple chromosomes have been found as translocation partner of 12q15, one of these being chromosomal region 13q12 (containing, amongst others, the LHFP gene).

Hybrid/Mutated Gene	HMGA2/LHFP hybrid gene containing the first three exons of HMGA2, which are followed by exon(s) of LHFP; under the regulation of the HMGA2 promoter.
Abnormal Protein	No known LHFP fusion protein. (HMGA2/LHFP fusion transcripts encode the three DNA-binding domains of HMGA2 followed by 69 amino acids encoded by frame-shifted LHFP sequences).

External links

Nomenclature

Hugo	LHFP
GDB	LHFP
Entrez Gene	LHFP_10186 lipoma HMGIC fusion partner

Cards

Atlas	LHFPID248ch13q12
GeneCards	LHFP
Ensembl	LHFP
CancerGene	LHFP
Genatlas	LHFP
GeneLynx	LHFP
eGenome	LHFP
euGene	10186

Genomic and cartography

GoldenPath	LHFP - 13q12 chr13:38815030-39075201 - 13q13.3 (hg17-May_2004)
Ensembl	LHFP - 13q13.3 [CytoView]
NCBI	Genes Cyto Gene Seq [Map View - NCBI]
OMIM	Disease map [OMIM]
HomoloGene	LHFP

Gene and transcription

Genbank	AF098807 [SRS] AF098807 [ENTREZ]
Genbank	AK129819 [SRS] AK129819 [ENTREZ]
Genbank	BC017824 [SRS] BC017824 [ENTREZ]
RefSeq	NM_005780 [SRS] NM_005780 [ENTREZ]
RefSeq	NT_086801 [SRS] NT_086801 [ENTREZ]
AceView	LHFP AceView - NCBI
TRASER	LHFP Traser - Stanford

[Unigene](#) [Hs.507798](#) [SRS] [Hs.507798](#) [NCBI] [HS507798](#) [spliceNest]

Protein : pattern, domain, 3D structure

[SwissProt](#) [Q9Y693](#) [SRS] [Q9Y693](#) [EXPASy] [Q9Y693](#) [INTERPRO]

[CluSTr](#) [Q9Y693](#)

[Blocks](#) [Q9Y693](#)

Polymorphism : SNP, mutations, diseases

[OMIM](#) [606710](#) [[map](#)]

[GENECLINICS](#) [606710](#)

[SNP](#) [LHFP](#) [dbSNP-NCBI]

[SNP](#) [NM_005780](#) [SNP-NCI]

[SNP](#) [LHFP](#) [GeneSNPs - Utah] [LHFP](#) [SNP - CSHL] [LHFP](#) [HGBASE - SRS]

General knowledge

[Family Browser](#) [LHFP](#) [UCSC Family Browser]

[SOURCE](#) [NM_005780](#)

[SMD](#) [Hs.507798](#)

[SAGE](#) [Hs.507798](#)

[PubGene](#) [LHFP](#)

Other databases

Probes

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

PubMed

[PubMed](#) [2 Pubmed reference\(s\) in LocusLink](#)

Bibliography

LHFP, a novel translocation partner gene of HMGIC in a lipoma, is a member of a new family of LHFP-like genes.

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Medline [10329012](#)

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Medline [11890997](#)

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Int J Cancer 2003; 103: 616-623.
Medline [12494468](#)

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

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Contributor(s)

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URL :

<http://www.infobiogen.fr/services/chromcancer/Genes/LHFPID248ch13q12.html>

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