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- (74) Agent: JONES, Phillip, B., C.; ZymoGenetics, Inc., 1201 Eastlake Avenue East, Seattle, WA 98102 (US).
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- (72) Inventors: SHEPPARD, Paul, O.; 13532 278th Drive N.E., Granite Falls, WA 98252 (US). BISHOP, Paul, D.; 28425 S.E. 8th Street, Fall City, WA 98024 (US). WHITMORE, Theodore, E.; 6916 152nd Avenue N.E., Redmond, WA 98052 (US). THOMPSON, Penny, P.; 9308 151st Avenue S.E., Snohomish, WA 98290 (US).
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(54) Title: HUMAN ZVEN PROTEINS

(57) Abstract: The present invention provides two members of a new family of human proteins, designated as "Zven." The *Zven1* gene, which resides in human chromosome 3p21.1 - 3p14.3, is expressed in testicular tissue and peripheral blood lymphocytes.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N15/12 C07K14/47 C07K16/18 C12Q1/68 G01N33/53
C12N15/62

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N C07K C12Q G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

BIOSIS, EPO-Internal, EMBL, MEDLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 99 06550 A (GENSET SA ; LACROIX BRUNO (FR); DUCLERT AYMERIC (FR); DUMAS MILNE E) 11 February 1999 (1999-02-11) 98,7% identity in 81 AA overlap between SEQ ID NO 4 (pos. 1-81) and SEQ ID NO 345 (pos. 1-81) of W09906550 --- -/--	27

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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"A" document defining the general state of the art which is not considered to be of particular relevance

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	FEDI PAOLO ET AL: "Isolation and biochemical characterization of the human Dkk-1 homologue, a novel inhibitor of mammalian Wnt signaling." JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 274, no. 27, 2 July 1999 (1999-07-02), pages 19465-19472, XP002173440 ISSN: 0021-9258 cited in the application abstract figure 1 ---	27
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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WO 9963088 A	09-12-1999	AU 4328699 A AU 2212299 A WO 9935170 A	20-12-1999 26-07-1999 15-07-1999