INFORME DE BÙSQUEDA DE PATENTES PARA EL RADICADO N° 14-147904-00000-0000

CRITERIOS PARA LA BÙSQUEDA (anexar pantallazo o reporte en PDF, junto con los boleanos utilizados)

Palabras clave utilizadas	Anticuerpo anti – LRP5, proteína 5 relacionada con el receptor de lipoproteína de baja densidad (LRP5), Ligando Norrin, vía de señalización Wnt, angiogénesis ocular, retinopatía
CLASIFICACIONES INTERNACIONALES UTILIZADAS PARA LA BÚSQUEDA	A61K 39/395, G01N 33/50.

BASES DE DATOS CONSULTADAS.

Patentscope	Google/patents		
NCBI	Sciencedirect		
Espacenet	PatBase		
Lens			

INFORMES DE EXÁMENES REALIZADOS EN OTRAS OFICINAS (documentos patentes, literatura no patente etc…)

Oficina	Fecha del examen o de reporte de búsqueda de documentos	Anterioridades encontradas para el examen o reportados en el examen de búsqueda(relacionarlos todos)	Reiv. afectadas	RELEVANCIA (requisito que afecta)	FUERON TENIDOS EN CUENTA PARA EL EXAMEN EN LA OFICINA COLOMBIANA	
					SI	NO
PCT INTERNATIONAL SEARCH REPORT - EPO	19/03/2013	WO2009036338 A2	1 - 28	Nivel inventivo	X	
		Baron R. *et al.,* 2007. Minireview: Targeting the Wnt/beta-catenin pathway to regulate bone formation in the adult skeleton	1 - 28	Documento tipo A		X
		Qiang X. *et al.,* 2004. Vascular Development in the Retina and inner Ear: Control by Norrin and Frizzled-4, a High-Affinity ligand- Receptor Pair.	1 - 28	Documento tipo A		X
USPTO	04/08/2014	US2010129375 A1	-	-		X
		Rudikoff *et al* (Proc Natl Acad Sci USA 1982 Vol 79 pp 1979-1983)	-	-		X
		MacCallum *et al.* (Journal of Molecular. Biology, 1996, Vol 262, pp. 732-745)	-	-		X
		Holm et al (Molecular Immunology, 2007, Vol. 44, pp. 1075-1084)	-	-		X

DOCUMENTOS ADICIONALES ENCONTRADOS POR EL EXAMINADOR DE ACUERDO A LOS CRITERIOS DE BÙSQUEDA.

Junge H. *et al.,* 2009. TSPAN12 Regulates Retinal Vascular Development by Promoting Norrin- but Not Wnt-Induced FZD4/b-Catenin Signaling
Ye W. *et al.,* 2009. Norrin, Frizzled-4, and Lrp5 Signaling in Endothelial Cells Controls a Genetic Program for Retinal Vascularization
US2004038860A
US2008227734A
JP2011087467A
US2012276089A
Saxon L. *et al*., 2011. Analysis of multiple bone responses to graded strains above functional levels, and to disuse, in mice in vivo show that the human Lrp5 G171V High Bone Mass mutation increases the osteogenic response to loading but that lack of Lrp5 activity reduces it
Ahn V. *et al.,* 2011. Structural Basis of Wnt Signaling Inhibition by Dickkopf Binding to LRP5/6.

CADENA PESADA
Búsqueda SEQ ID NO: 1

Document #	Seq ID	E-Value	Similarity	Coverage
CA 2862422	1	2.14E-58	100	100
WO 2013/109819 A1	1	2.14E-58	100	100
US 2013/0183320 A1	1	2.14E-58	100	100
CA 2862422	2	2.75E-58	99.1	100
WO 2013/109819 A1	2	2.75E-58	99.1	100
US 2013/0183320 A1	2	2.75E-58	99.1	100
CA 2862422	3	1.5E-57	98.3	100
WO 2013/109819 A1	3	1.5E-57	98.3	100

Búsqueda SEQ ID NO: 2

Document #	Seq ID	E-Value	Similarity	Coverage
CA 2862422	2	3.75E-63	100	100
WO 2013/109819 A1	2	3.75E-63	100	100
US 2013/0183320 A1	2	3.75E-63	100	100
CA 2862422	4	9.73E-62	99.1	100
WO 2013/109819 A1	4	9.73E-62	99.1	100
US 2013/0183320 A1	4	9.73E-62	99.1	100
CA 2862422	1	2.86E-61	99.1	100
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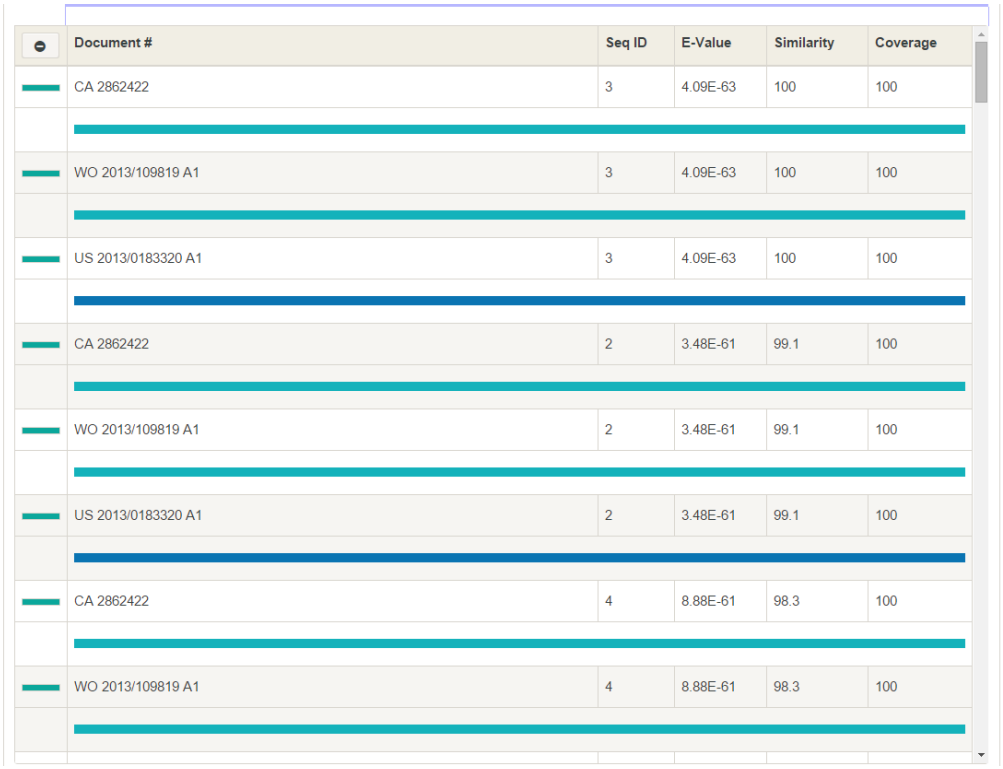

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CA 2862422	2	3.48E-61	99.1	100
WO 2013/109819 A1	2	3.48E-61	99.1	100
US 2013/0183320 A1	2	3.48E-61	99.1	100
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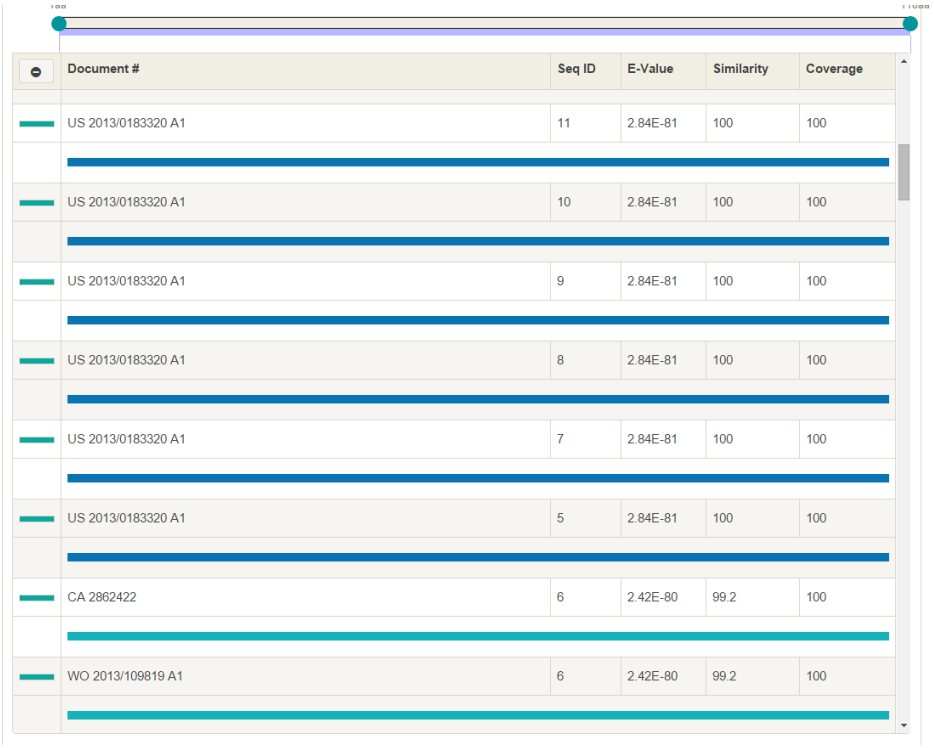

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US 2013/0183320 A1	9	2.84E-81	100	100
US 2013/0183320 A1	8	2.84E-81	100	100
US 2013/0183320 A1	7	2.84E-81	100	100
US 2013/0183320 A1	5	2.84E-81	100	100
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WO 2013/109819 A1	6	2.42E-80	99.2	100

CADENA LIGERA

Búsqueda SEQ ID NO: 12

Document #	Seq ID	E-Value	Similarity	Coverage
WO 2013/109819 A1	12	5.66E-71	100	100
US 2014/0322129 A1	1	5.66E-71	100	100
US 2013/0183320 A1	14	5.66E-71	100	100
US 2013/0183320 A1	13	5.66E-71	100	100
US 2013/0183320 A1	12	5.66E-71	100	100
CA 2862422	15	4.55E-70	99.1	100
WO 2013/109819 A1	15	4.55E-70	99.1	100
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Búsqueda SEQ ID NO: 13

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WO 2013/109819 A1	15	4.55E-70	99.1	100
US 2013/0183320 A1	15	4.55E-70	99.1	100
CA 2872327	45	4.76E-70	100	99.1
WO 2013/177055 A2	45	4.76E-70	100	99.1
CA 2862422	17	1.16E-69	99.1	100

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WO 2013/109819 A1	20	6.97E-72	100	100
US 2013/0183320 A1	20	6.97E-72	100	100
CA 2862422	22	7.34E-69	97.2	100
WO 2013/109819 A1	22	7.34E-69	97.2	100
US 2013/0183320 A1	22	7.34E-69	97.2	100
CA 2862422	19	6.95E-68	97.2	100
WO 2013/109819 A1	19	6.95E-68	97.2	100

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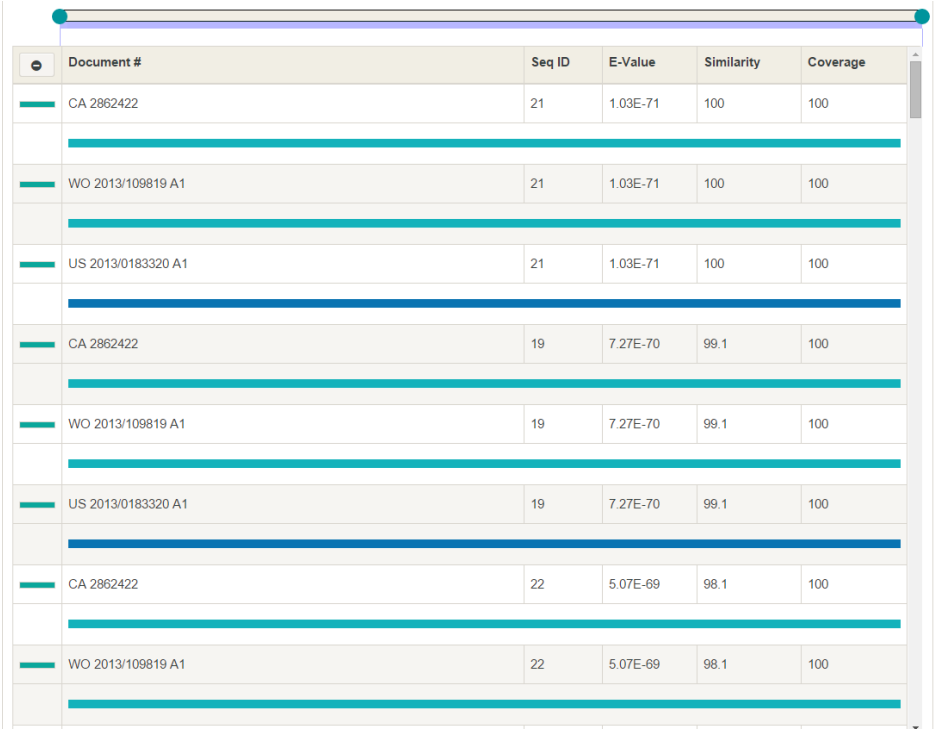

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US 2013/0183320 A1	21	1.03E-71	100	100
CA 2862422	19	7.27E-70	99.1	100
WO 2013/109819 A1	19	7.27E-70	99.1	100
US 2013/0183320 A1	19	7.27E-70	99.1	100
CA 2862422	22	5.07E-69	98.1	100
WO 2013/109819 A1	22	5.07E-69	98.1	100

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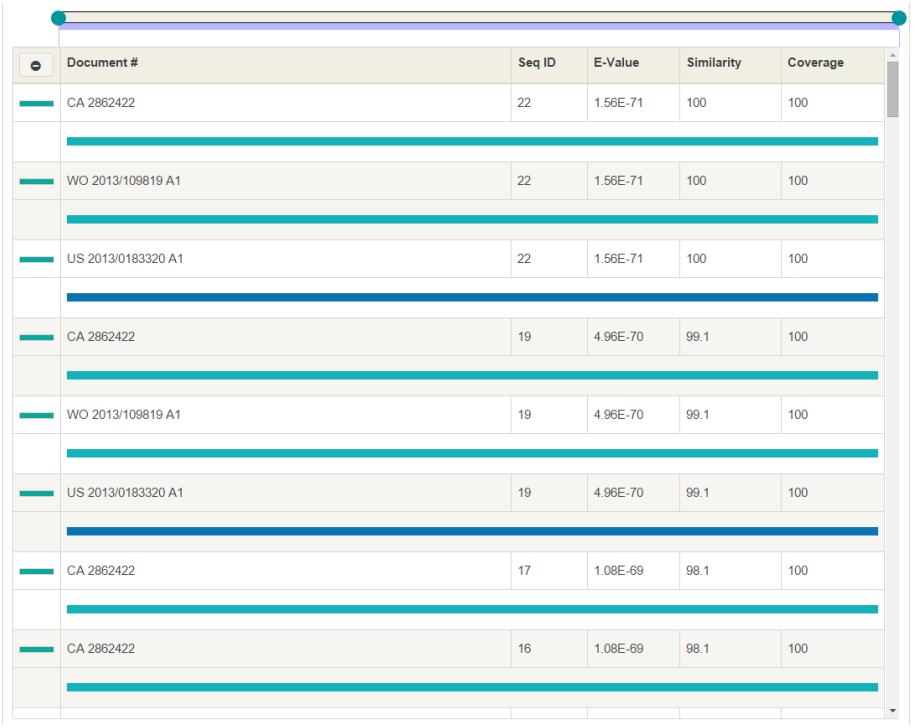

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WO 2013/109819 A1	22	1.56E-71	100	100
US 2013/0183320 A1	22	1.56E-71	100	100
CA 2862422	19	4.96E-70	99.1	100
WO 2013/109819 A1	19	4.96E-70	99.1	100
US 2013/0183320 A1	19	4.96E-70	99.1	100
CA 2862422	17	1.08E-69	98.1	100
CA 2862422	16	1.08E-69	98.1	100

Búsqueda PatBase

2) Family number: 30317007 (US2004038860A) — Similar • Translate • Full-text • Status • Citations

Title: [EN] REAGENTS AND METHODS FOR MODULATING DKK-MEDIATED INTERACTIONS

Abstract: Source: US2004038860A [EN] The present invention provides reagents, compounds, compositions, and methods relating to novel interactions of the extracellular domain of LRP5, HBM (a variant of LRP5), and/or LRP6 with Dkk, including Dkk-1. The various nucleic acids, polypeptides, **antibodies**, assay methods, diagnostic methods, and methods of treatment of the present invention are related to and impact on Dkk, LRP5, LRP6, HBM, and Wnt signaling. Dkk, LRP5, LRP6, HBM, and Wnt are implicated in bone and lipid cellular signaling. Thus, the present invention provides reagents and methods for modulating lipid levels and/or bone mass and is useful in the treatment and diagnosis of abnormal lipid levels and bone mass disorders, such as osteoporosis.

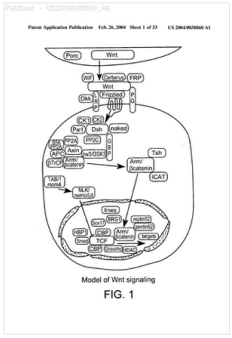

FIG. 1

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A61K31/7088 A61K35/00 A61K38/00 A61K45/00 (Advanced/Non-invention);
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A61K31/7088 A61K45/00 (Core/Non-invention)
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US: 424/130.1 424/133.1 424/136.1 424/139.1 424/139.100P 424/141.1 424/143.1 424/143.100P 424/145.1 435/226 435/226S 435/252.3 435/254.11 435/320.1 435/320.100S 435/325

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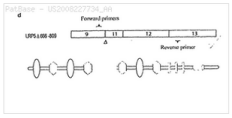
8) Family number: 31958893 (US2008227734A) — Similar • Translate • Full-text • Status • Citations

Title: [EN] MUTANT LRP5/6 WNT-SIGNALING RECEPTORS IN CANCER DIAGNOSIS, PROGNOSIS, AND TREATMENT

Abstract: Source: US2008227734A [EN] A novel mutant form of lrp5 and lrp6 genes, the mutant LRP5 and LRP6 receptor proteins expressed therefrom, and a cell line which expresses the mutant LRP5 and/or LRP6 receptor proteins. Methods of diagnosing, prognosing and treating LRP5 related diseases, specifically hyperthyroidism and parathyroid tumors, and kits suitable for rapid on-site testing. Finally, methods of screening for agents capable of modulating the mutant LRP5 or LRP6 receptor proteins and pharmaceutical compositions comprising the selected agents.



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A61K38/00 (Advanced/Non-invention);
C07K14/43 C07K14/435 C12N15/85 G01N33/50 G01N33/574 (Core/Invention);
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US: 435/325 435/325S 435/6 435/6.14 435/6.140S 435/7.23 435/7.230S 506/10 506/10S 514/44 514/44.00AP 514/44A 530/350 530/350S 536/23.5 536/23.500S 800/9 800/9S

Family: Family Explorer

Publication number	Publication date	Application number	Application date	Links
EP1692167 A2	20060823	EP20040816633	20041124	
US2008227734 AA	20080918	US20040580487	20041124	
WO05048913 A2	20050602	WO2004IB04421	20041124	
WO05048913 A3	20060323	WO2004IB04421	20041124	

Priority: Priority Map
US20030524513P 20031124 WO2004IB04421 20041124 US20040580487 20041124
Probable Assignee: BIOINVENT INT AB

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Command line (expand) | Minimize command line

32) Family number: 49071645 (JP2011087467A) — Similar • Translate • Full-text • Status • Citations

Title: [EN] METHOD FOR DETECTING, SEPARATING AND CULTURING STEM CELL

Abstract: Source: JP2011087467A [EN] PROBLEM TO BE SOLVED: To provide methods for efficiently detecting, separating, culturing, differentiating and inducing a stem cell having a high differentiation potency into a pigment cell from mammalian dermal tissue. SOLUTION: There are provided methods for detecting, separating, culturing, differentiating and inducing a pluripotent stem cell having a high differentiation potency into a pigment cell from mammalian dermal tissue by using Lrp5 and Lrp6 that a stem cell specifically synthesizes as a marker protein and by using an **antibody** having a specific affinity for these proteins.

Classifications: Classification Explorer
International (IPC 8-th): C12N5/07 C12N5/071 C12Q1/04 (Advanced/Invention)

Family: Family Explorer

Publication number	Publication date	Application number	Application date	Links
JP2011087467 A2	20110506	JP20090241047	20091020	
JP5642372 B2	20141217	JP20090241047	20091020	

Priority: Priority Map
JP20090241047 20091020
Probable Assignee: NIPPON MENAADE KESHOHIN KK
Assignee(s): (std): NIPPON MENAADE KESHOHIN KK
Inventor(s): (std): YAMADA TAKAAKI ; SAKAIDA TSUTOMU ; INOUE YU ; HASEGAWA YASUSHI

33) Family number: 49087763 (US2011143397A) — Similar • Translate • Full-text • Status • Citations

Title: [EN] RNA PREPARATIONS COMPRISING PURIFIED MODIFIED RNA FOR REPROGRAMMING CELLS

Command line: Search — Next • Previous • Top • Search • Full-text • Status • Citations • Drawings • INS Add to folde

39) Family number: 52218177 (US2012276089A) Similar • Translate • Full-text • Status • Citations

Title: [EN] **ANTIBODIES** THAT INHIBIT WNT SIGNALING AND METHODS OF USING THE SAME

Abstract: Source: US2012276089A [EN] The present invention is directed to monoclonal **antibodies** and fragments thereof directed to LRP5/6 that find use in the prevention and treatment of cardiac remodeling and cancer. Also disclosed are methods for using such monoclonal **antibodies** in the prevention and treatment of such diseases.

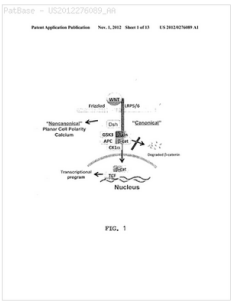

FIG. 1

Classifications: Classification Explorer
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European: C07K16/28G M07K317/330 M07K317/760
US: 424/133.1 424/143.1 424/172.1 424/174.1 424/806 514/16.4 530/388.22 530/863 600/1

Family: Family Explorer

Publication number	Publication date	Application number	Application date	Links
US2012276089 AA	20121101	US20120460242	20120430	
US2015086540 AA	20150326	US20140446073	20140729	
US8790650 BB	20140729	US20120460242	20120430	

Priority: Priority Map
US20110480218P 20110428 US20120460242 20120430 US20140446073 20140729
Probable Assignee: UNIV VANDERBILT
Assignee(s): (std): EID JOSIANE ; LEE ETHAN ; UNIV VANDERBILT ; YOUNG PAMPEE P ; YOUNG PAMPEE PAUL