

INFORME DE BÚSQUEDA DE PATENTES				
N° de solicitud: NC2016/0001034				
CRITERIOS PARA LA BÚSQUEDA (Anexar pantallazo o reporte en PDF, junto con los boléanos utilizados*. Para el caso de secuencias, anexar alineamientos)				
Palabras clave utilizadas		Cab promototers in maize, Cab gene, Zea mays, chlorophyll a/b, regulatory elements.		
CLASIFICACIONES UTILIZADAS PARA LA BÚSQUEDA		CIP: C12N 15/63 // 15/82, A01H 5/00.		
		CPC (Opcional): -		
DOCUMENTOS CONSIDERADOS RELEVANTES (documentos patentes, literatura no patente, etc...)				
Informes/Base de datos	N° de solicitud/ Autor**	Fecha de Publicación/Presentación (DD/MM/AAAA)	Reiv. afectadas (Con indicación, si procede, de las partes relevantes o números de secuencias)	Categorías especiales de los documentos citados***
SIPI	No hay registros que puedan afectar la patentabilidad de la solicitud.	-	-	-
EPO (19/07/2017)	US2010/088786	08/04/2010	Rv. 1 a 8, 15 y 16 (Pág. 4., SEQ ID NO: 35 - Pág. 27, Rv. 1).	Y
	US5639952	17/06/1997	Rv. 1 a 8, 15 y 16 (Col. 19, ejemplo 3).	Y
Reporte de búsqueda internacional (27/04/2015)	US6177611	23/01/2001	-	A
	US5639952	17/06/1997	-	A
	EP0353908	07/02/1990	-	A
	US20100088786	08/04/2010	-	A
	US20050251880	10/11/2005	-	A
Patbase*	US2006288439	21/12/2006	-	A
	US2008131874	05/06/2008	-	A
	US5639952	17/06/1997	Rv. 1 a 8, 15 y 16 (Col. 19, ejemplo 3).	Y
Patent Lens	US7750207	06/07/2010	La SEQ ID NO: 11918 presenta un 87.4% de identidad respecto a la SEQ ID NO: 1 reclamada en la solicitud.	A
*** Categorías especiales de documentos citados:				
“A” documento que define el estado general de la técnica no considerado como particularmente relevante. “E” solicitud de patente o patente anterior pero publicada en la fecha de presentación internacional o en fecha posterior. “P” documento publicado antes de la fecha de presentación internacional pero con posterioridad a la fecha de prioridad reivindicada.		“X” documento particularmente relevante; la invención reivindicada no puede considerarse nueva o que implique una actividad inventiva por referencia al documento aisladamente considerado. “Y” documento particularmente relevante; la invención reivindicada no puede considerarse que implique una actividad inventiva cuando el documento se asocia a otro u otros documentos de la misma naturaleza, cuya combinación resulta evidente para un experto en la materia.		
**** Indicar entre paréntesis la Autoridad que realizó la búsqueda o el informe preliminar Ejs: EPO, JP, INAPI.				

Fecha del reporte de búsqueda:	30/08/2017
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Búsqueda en PatBase

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#	Search query	Results	Options
3	STAC=((chlorophyll a/b binding protein) W3 promoter) and CPC=(C12N OR A01H)	27	View Browse Hits Optimise more...
2	STAC=((chlorophyll a/b binding protein) AND promoter)	63	View Browse Hits Optimise more...
1			

21) Family number: 34027195 (US2006288439A)

Similar • Translate • Full-text • Status • Citations

Title: [EN] LEAF-SPECIFIC CHLOROPHYLL A/B **BINDING PROTEIN PROMOTER**

Abstract:

Source: US2006288439A [EN] The present invention discloses a promoter sequence of light-harvesting chlorophyll a/b binding protein pGWLS01 isolated from the oil palm leaf. This promoter enables the manipulation of oil palm leaves for the production of high value-added products via genetic engineering tools. The novel features of the promoter itself which regulate high and specific expression of foreign genes in the leaves will avoid the interference of novel products in the commodity oil extracted from mesocarp and kernel tissues. Furthermore, the promoter is also potentially useful in the production of insect-resistant palm.

Classifications:

Classification Explorer

International (IPC 8-9):

A01H1/00 A01H5/00 C07H21/04 C12N1/21 C12N15/29 C12N15/82 C12N5/04 C12N5/10 (Advanced/Invention);
A01H5/00 C12N15/82 (Advanced/Non-invention);
A01H5/00 C07H21/00 C12N15/29 C12N15/82 C12N5/04 C12N5/10 (Core/Invention)
CPC: C07K14/415 C12N15/8225
European: C07K14/415 C12N15/82B20A2
US: 435/252.3 435/252.300 435/320.1 435/320.100S 435/419 435/419S 435/468 536/23.1 536/23.100S 536/23.2 536/23.200 536/23.53 536/23.530S 536/24.1 800/278 800/279 800/287 800/298 800/298S 800/302 800/302P

Family:

Family Explorer

Publication number	Publication date	Application number	Application date	Links
FR2889540 A1	20070209	FR20060005253	20060613	
FR2889540 B1	20140905	FR20060005253	20060613	

PatBase - US2006288439_A1

FIGURE 1

FIGURE 2

23) Family number: 41884410 (US2008131874A)

Similar • Translate • Full-text • Status • Citations

Title: [EN] METHOD FOR EFFICIENT POST-TRANSCRIPTIONAL GENE SILENCING USING INTRINSIC DIRECT REPEAT SEQUENCES AND UTILIZATION THEREOF IN FUNCTIONAL GENOMICS

Abstract:

Source: US2008131874A [EN] It is well documented that transgenes with inverted repeats can efficiently trigger post-transcriptional gene silencing (PTGS), presumably via a double stranded RNA induced by complementary sequences in their transcripts. We show here that transgenes with intrinsic direct repeats can also induce PTGS at a very high frequency (80-100 percent). A transgene with three or four repeats induced PTGS in almost 100 percent of the primary transformants, regardless of whether a strong (enhanced 35S promoter) or a relatively weak (chlorophyll a/b **binding protein promoter**) promoter was used. The PTGS induced by three or four repeats is consistently inherited in subsequent generations, and can inactivate homologous genes in trans. Based on the high frequency and consistent heritability, we propose that the intrinsic direct repeat within a transgene may act as a primary determinant of PTGS referred to as direct repeat-induced PTGS (driPTGS). Silencing occurred in all five genes, in this and two previous reports, suggesting that driPTGS might be a universal gene silencing mechanism both in dicotyledonous tobacco plants and monocotyledonous rice cells. In addition, driPTGS may help dissect the gene silencing mechanism and generate silenced phenotypes useful for research and plant biotechnology products.

Classifications:

Classification Explorer

International (IPC 8-9):

C12N15/82 C12Q1/68 (Advanced/Invention);
C12N15/82 C12Q1/68 (Core/Invention)
CPC: C12N15/8218
European: C12N15/82B4
US: 435/468 435/468S 435/6 435/6.14 435/6.140P

PatBase - US2008131874_A1

FIGURE 1

FIGURE 2

Title: [EN] Dark and light regulated chlorophyll A/B **binding protein promoter**-regulatory system

Abstract: Source: US5639952A [EN] A plant chlorophyll a/b binding (Cab) protein gene was isolated from a maize genomic library. The promoter/regulatory system of this gene actively functions in controlling Cab gene expression under conditions of darkness and in enhancing gene expression under conditions of light. This invention contemplates the utilization of the Cab promoter/regulatory system in regulating non-homologous structural gene expression in transgenic plants under conditions of darkness followed by further enhancement of gene expression under conditions of light.

Classifications: [Classification Explorer](#)

International (IPC 8-9): C07K14/415 C12N15/82 (Advanced/Invention)

International (IPC 1-7): A01H4/00 C12N15/11 C12N15/82

CPC: C07K14/415 C12N15/8237

European: C07K14/415 C12N15/82B24 M07K207/00

US: 435/320.1 435/468 435/470 536/24.1 800/205 800/287 800/298

Family: [Family Explorer](#)

Publication number	Publication date	Application number	Application date	Links
US5639952 A	19970617	US19950418915	19950407	
US5656496 A	19970812	US19950461082	19950605	

