

INFORME DE BÚSQUEDA DE PATENTES PARA EL No de Radicación: 14-184891						
CRITERIOS PARA LA BÚSQUEDA (anexar pantallazo o reporte en PDF, junto con los boleanos utilizados)						
Palabras clave utilizadas		"flavone synthase promoter and their uses" ""F3'5'H promoter for flowers color"				
CLASIFICACIONES INTERNACIONALES UTILIZADAS PARA LA BÚSQUEDA		C12N1/21, C12N15/09, C12N1/15, C12N1/19, A01H5/02, A01H5/00, C12N5/10				
BASES DE DATOS CONSULTADAS.						
Google patents		Science direct		pubmed		Espacenet
USPTO		NCBI		The 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
EUROPEA	26/08/2014	WO 2010/050605 A1	1-14	NI	X	
		Molecular Breeding, 2000, vol. 6, pp. 239-246	1-14	NI		X
		WO 2008/156211 A1	15-32	NI		
USPTO	No se ha realizado	NA	NA	NA	NA	NA
DOCUMENTOS ADICIONALES ENCONTRADOS POR EL EXAMINADOR DE ACUERDO A LOS CRITERIOS DE BÚSQUEDA.						
EP 2292764 "Flavonoid 3',5' hydroxylase gene sequences and uses therefor" 09/Marzo/2011						
US 7422881 "DNAs coding for flavone synthases, methods of using flavone synthase DNAs, and plants, flowers, and vectors containing flavone synthase DNAs" 09/Septiembre/2008						
BÚSQUEDA DE SECUENCIAS						
Número de depósito / patente y N° de secuencia % de identidad						
SEQ ID NO (de la solicitud)	NCBI	The Lens	EMBL-EBI	DDJB	Genome Quest	
21	GI:298099667	US 7422881 / SEQ ID NO: 3				
	Cobertura del 3% e identidad del 100%	Cobertura del 3% e identidad del 100%				

CRITERIOS DE BÚSQUEDA / UNIDAD DE INVENCION (Pantallazos)

Percent Identity Matrix - created by Clustal2.1

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1: SEQ_ID_NO_12 100.00
2: SEQ_ID_NO_20 85.97 100.00
3: SEQ_ID_NO_21 41.65 44.00 100.00

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CLUSTAL 2.1 multiple sequence alignment

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SEQ_ID_NO_21	-----AATTCAGGACACTTAATTGATGAATCACAATCAAATAATATTATTTTGCAGTAT	100
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SEQ_ID_NO_12	-----	
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SEQ_ID_NO_20	ATTTAGATTTGGTAAAACCGTAAAAATATCTTGTCTTAACTTCTTCTATTAATTCACA	480
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SEQ_ID_NO_12	-----	
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SEQ_ID_NO_12	-----	
SEQ_ID_NO_20	TTTAAAGGCCTACGAATAGTATACGGGCCATAACTTTATGGGGGACATTTTCAGGCCTAC	720
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SEQ_ID_NO_12	-----	
SEQ_ID_NO_20	GCACGATTTTCAATGTCTACTCCACAGTGCAAAAATTGCACGATCAATTCTGATG---A	837
SEQ_ID_NO_21	GAAAGGTAGACGTACGGTACGGCTACGGTACCTAACCTTCGAGGCTTAGACTAAGGGTAA	709
SEQ_ID_NO_12	-----TCCTAT-----TG-----CACTCGTTTTTTTCT	22
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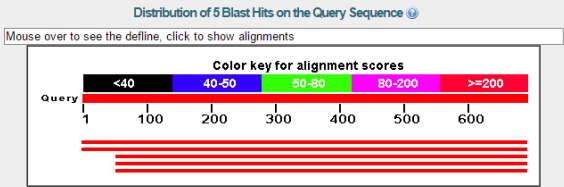
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RID [PYSBZ0HZ014](#) (Expires on 06-05 04:20 am)
Query ID [IdlQuery_2649](#)
Description [SEQ_ID_NO_12](#)
Molecule type [nucleic acid](#)
Query Length [685](#)

Database Name [pat](#)
Description [Nucleotide sequences derived from the Patent division of GenBank](#)
Program [BLASTN 2.2.31+](#) [Citation](#)

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Graphic Summary



Descriptions

Sequences producing significant alignments:

Select: [All](#) [None](#) Selected: 0

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	Description	Max score	Total score	Query cover	E value	Ident	Accession
☐	WQ 2013125530-A/12: Promoters derived from Trenia Functioning in Petals	1266	1266	100%	0.0	100%	HW311791.1
☐	WQ 2013125530-A/9: Promoters derived from Trenia Functioning in Petals	1253	1253	100%	0.0	99%	HW311788.1
☐	WQ 2013125530-A/20: Promoters derived from Trenia Functioning in Petals	366	366	92%	3e-98	78%	HW311799.1

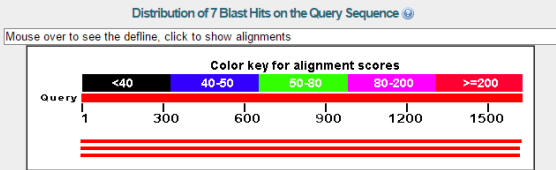
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Query Length [1618](#)

Database Name [pat](#)
Description [Nucleotide sequences derived from the Patent division of GenBank](#)
Program [BLASTN 2.2.31+](#) [Citation](#)

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Graphic Summary



Descriptions

Sequences producing significant alignments:

Select: [All](#) [None](#) Selected: 0

[Alignments](#) [Download](#) [GenBank](#) [Graphics](#) [Distance tree of results](#)

	Description	Max score	Total score	Query cover	E value	Ident	Accession
☐	WQ 2013125530-A/20: Promoters derived from Trenia Functioning in Petals	2988	2988	100%	0.0	100%	HW311799.1
☐	WQ 2013125530-A/7: Promoters derived from Trenia Functioning in Petals	2979	3086	99%	0.0	100%	HW311786.1
☐	WQ 2013125530-A/4: Promoters derived from Trenia Functioning in Petals	2961	3067	99%	0.0	99%	HW311783.1
☐	WQ 2013125530-A/12: Promoters derived from Trenia Functioning in Petals	366	366	42%	7e-98	78%	HW311791.1

WO_2013_125530_...fasta

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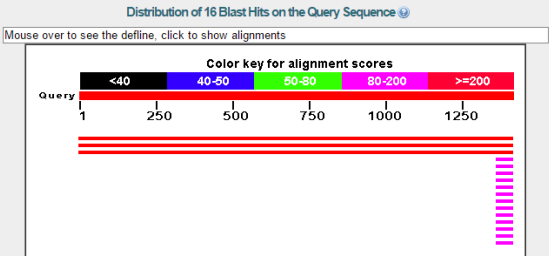
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Molecule type nucleic acid
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Database Name pat
Description Nucleotide sequences derived from the Patent division of GenBank
Program BLASTN 2.2.31+ [Citation](#)

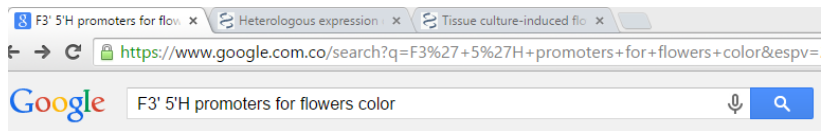
Other reports: [Search Summary](#) [Taxonomy reports](#) [Distance tree of results](#)

Graphic Summary



Descriptions

Sequences producing significant alignments:



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Tissue culture-induced flower-color changes in Saintpaulia ...

www.ncbi.nlm.nih.gov/pubmed/21293860 Traducir esta página
por M Sato - 2011 - **Mencionado por 22** - Artículos relacionados
4 feb. 2011 - Tissue culture-induced flower-color changes in Saintpaulia caused by excision of the transposon inserted in the flavonoid 3', 5' hydroxylase (F3'5'H) promoter.

Heterologous expression of the flavonoid 3',5'-hydroxylase ...

www.ncbi.nlm.nih.gov/pubmed/14504908 Traducir esta página
por S Mori - 2004 - **Mencionado por 44** - Artículos relacionados
18 sept. 2003 - ... (F3'5'H) is the key enzyme for the expression of blue or purple flower color. ... 35S promoter, some transgenic plants showed drastic flower color alteration ...

Tissue culture-induced flower-color changes in ... - ProQuest

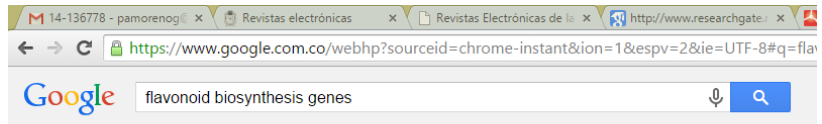
search.proquest.com/openview/.../1?pq-origsite... Traducir esta página
por M Sato - 2011 - **Mencionado por 22** - Artículos relacionados
5 feb. 2011 - Analysis of flavonoid 3', 5'-hydroxylase (F3'5'H) sequences showed no that novel color variants were generated by various indels in the promoter region via ...

[PDF] J-BCH

www.bch.biodic.go.jp/.../en.../FLO11363enRi.pdf Traducir esta página
14 dic. 2004 - by itself though can indirectly govern the color of flowers by forming a F3'5'H gene, it is preferred to use different promoters and/or 3' untranslated regions.

Dendrobium flower color : histology and genetic manipulation

scholarspace.manoa.hawaii.edu/handle/10125/3066 Traducir esta página
por RG Mudalige - 2003 - **Mencionado por 2** - Artículos relacionados
9 mar. 2009 - Two different color genes, dfr and f3'5'h from two non-orchid plants, under the constitutive promoter ubiquitin3, were inserted into Dendrobium Icy Pink 'Sakura' ...



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Artículos académicos para flavonoid biosynthesis genes

Flavonoid biosynthesis. A colorful model for genetics, ... - Winkel-Shirley -
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... and expression of **flavonoid biosynthesis genes in the ...** - Jackson - Mencionado por 88
... separately from other **flavonoid biosynthesis genes in ...** - Takos - Mencionado por 76

KEGG PATHWAY: Flavonoid biosynthesis - Reference ...

www.genome.jp/kegg-bin/show_pathway?... Traducir esta página
Flavonoid biosynthesis - Reference pathway. Help. [Pathway menu | Organism menu | Pathway entry | Show description | User data mapping] ...

Flavonoid biosynthesis - Wikipedia, the free encyclopedia

en.wikipedia.org/wiki/**Flavonoid_biosynthesis** Traducir esta página
Flavonoids are synthesized by the phenylpropanoid metabolic pathway in which the amino acid phenylalanine is used to produce 4-coumaroyl-CoA. This can ...

The flavonoid biosynthetic pathway in Arabidopsis ...

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por K Saito - 2013 - **Mencionado por 45** - Artículos relacionados
This review describes the state-of-art of flavonoid biosynthetic pathway in Arabidopsis regarding both structural and genetic diversity, focusing on the genes ...

Regulation of Flavonoid Biosynthetic Genes in Germinating ...

www.plantcell.org/content/4/10/1229.abstract Traducir esta página
por WL Kubasek - 1992 - **Mencionado por 271** - Artículos relacionados
We observed that steady state levels of mRNAs encoded by four flavonoid biosynthetic genes, PAL1 (encoding phenylalanine ammonia-lyase 1), CHS ...

[PDF] Plant Flavonoids—Biosynthesis, Transport and Involve...