

INFORME DE BÚSQUEDA DE PATENTES				
N° de solicitud: NC2016/0005882				
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		CYP153A, omega-hydroxylated fatty acids, fusion construct		
CLASIFICACIONES UTILIZADAS PARA LA BÚSQUEDA		CIP.: C12N 9/02, C07K 19/00, C12P 7/42, C12P 7/64.		
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	NA			
ISA(EPO)	Sheps et al.	01/08/2013	NA	A
	WO2014/201474	18/12/2014	NA	A,P
NCBI	NA			
*** 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.				

Literatura no patente **Se incluye entre otros, toda la referencia de la literatura no patente.	DANIEL SCHEPS ET AL: " Synthesis of [omega]-hydroxy dodecanoic acid based on an engineered CYP153A fusion construct ", MICROBIAL BIOTECHNOLOGY, 1 August 2013 (2013-08-01), pages n/a - n/a, XP055115867, ISSN: 1751-7915, DOI: 10.1111/1751-7915.12073
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Fecha del reporte de búsqueda:	27/03/2018
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buscador	NCBI
Base de datos	Nr
query	SEQ ID NO: 6

	Description	Max score	Total score	Query cover	E value	Ident	Accession
☐	cytochrome P450 [Rhodococcus sp. MEB064]	862	862	98%	0.0	54%	WP_042573494.1
☐	MULTISPECIES: cytochrome P450 [Rhodococcus]	861	861	98%	0.0	55%	WP_056447749.1
☐	cytochrome P450 [Williamsia herbipolensis]	861	861	98%	0.0	54%	WP_045821136.1
☐	cytochrome P450 [Rhodococcus sp. UNC23MFCrub1.1]	860	860	98%	0.0	55%	WP_027506892.1
☐	MULTISPECIES: cytochrome P450 [Rhodococcus]	859	859	98%	0.0	55%	WP_056074234.1
☐	cytochrome P450 [Rhodococcus sp. PBTS 1]	853	853	98%	0.0	54%	WP_068099992.1
☐	cytochrome P450 [Williamsia sp. Leaf354]	853	853	98%	0.0	53%	WP_055787470.1
☐	cytochrome P450 [Rhodococcus kroppenstedtii]	850	850	98%	0.0	54%	WP_068366669.1
☐	MULTISPECIES: cytochrome P450 [Nocardioides]	907	907	98%	0.0	57%	WP_056893956.1
☐	MULTISPECIES: cytochrome P450 [Nocardioides]	900	900	98%	0.0	55%	WP_056711474.1
☐	cytochrome P450 [Skermania piniformis]	885	885	98%	0.0	56%	WP_066469310.1
☐	cytochrome P450 [Solimonas sp. HR-BB]	915	915	98%	0.0	56%	WP_104229591.1
☐	cytochrome P450 [Tsukamurella pseudospumae]	889	889	98%	0.0	56%	WP_068572003.1

buscador	NCBI
Base de datos	Patented sequences
query	SEQ ID NO: 6

	Description	Max score	Total score	Query cover	E value	Ident	Accession
☐	Sequence 34 from patent US 9611489	969	969	58%	0.0	99%	AUE33224.1
☐	Sequence 3 from patent US 8383381	856	856	89%	0.0	63%	AGM62807.1
☐	unnamed protein product [synthetic construct]	827	827	58%	0.0	84%	CAX30732.1
☐	unnamed protein product [synthetic construct]	823	823	58%	0.0	84%	CAX30731.1
☐	Sequence 19 from patent US 9611489	811	811	58%	0.0	82%	AUE33216.1
☐	Sequence 60 from patent US 8026085	809	809	58%	0.0	81%	AEP61378.1
☐	unnamed protein product [synthetic construct]	795	795	58%	0.0	81%	CAX30730.1
☐	unnamed protein product [synthetic construct]	791	791	85%	0.0	62%	CAV22296.1
☐	unnamed protein product [synthetic construct]	785	785	58%	0.0	79%	CAX30729.1
☐	unnamed protein product [synthetic construct]	750	750	58%	0.0	76%	CAX30736.1
☐	unnamed protein product [synthetic construct]	732	732	58%	0.0	75%	CAX30733.1
☐	unnamed protein product [synthetic construct]	731	731	58%	0.0	75%	CAX30734.1
☐	unnamed protein product [synthetic construct]	729	729	58%	0.0	75%	CAX30738.1

buscador	Lens-finder
query	SEQ ID NO: 6

Query ID	Description	Seq Length
query_1		799aa

Patent Number	Title	Publication Date	SEQ ID NO	Local % Id	Alignment Length
WO 2013 135650 A1	ENZYMATIC OMEGA- OXIDATION AND OMEGA- AMINATION OF FATTY ACIDS	19/09/13	34	99.8%	470
WO 2013 135650 A1	ENZYMATIC OMEGA- OXIDATION AND OMEGA- AMINATION OF FATTY ACIDS	19/09/13	42	99.8%	470
CA 2866215 A1	ENZYMATIC OMEGA- OXIDATION AND OMEGA- AMINATION OF FATTY ACIDS	19/09/13	34	99.8%	470
CA 2866215 A1	ENZYMATIC OMEGA- OXIDATION AND OMEGA- AMINATION OF FATTY ACIDS	19/09/13	42	99.8%	470
US 2011 0086405 A1	METHOD FOR PRODUCING HYDROXYLATED ADAMANTANE USING CYTOCHROME P450	14/04/11	3	62.6%	721
US 2013 0072668 A1	METHOD FOR PRODUCING HYDROXYLATED ADAMANTANE USING CYTOCHROME P450	21/03/13	3	62.6%	721
US 8383381 B2	Method for producing hydroxylated adaivjantane using cytochrome P450	26/02/13	3	62.6%	721
US 8614080 B2	Method for producing hydroxylated adamantane using cytochrome P450	24/12/13	3	62.6%	721
WO 2009 041470 A1	METHOD FOR PRODUCING HYDROXYLATED ADAMANTANE USING CYTOCHROME P450	02/04/09	11	62.6%	721
US 2008 0220419 A1	Method of Isolating P450 Gene	11/09/08	5	83.7%	467
WO 2006 051729 A1	METHOD OF ISOLATING P450 GENE	18/05/06	62	83.7%	467
JP 2009005687 A	METHOD FOR PRODUCING AROMATIC COMPOUND BY CYP153	15/01/09	13	83.7%	467
EP 2017334 A2	Method of isolating P450 Gene	21/01/09	5	83.7%	467
JP 2013198495 A	METHOD FOR PRODUCING AROMATIC COMPOUND BY CYP153	03/10/13	13	83.7%	467
US 2008 0220419 A1	Method of Isolating P450 Gene	11/09/08	4	83.5%	467
WO 2006 051729 A1	METHOD OF ISOLATING P450 GENE	18/05/06	61	83.5%	467

EP 2017334 A2	Method of isolating P450 Gene	21/01/09	4	83.5%	467
US 2008 0220419 A1	Method of Isolating P450 Gene	11/09/08	57	81.6%	467
WO 2006 051729 A1	METHOD OF ISOLATING P450 GENE	18/05/06	85	81.6%	467
JP 2009005687 A	METHOD FOR PRODUCING AROMATIC COMPOUND BY CYP153	15/01/09	11	81.6%	467
EP 2017334 A2	Method of isolating P450 Gene	21/01/09	57	81.6%	467
JP 2013198495 A	METHOD FOR PRODUCING AROMATIC COMPOUND BY CYP153	03/10/13	11	81.6%	467
WO 2013 135650 A1	ENZYMATIC OMEGA-OXIDATION AND OMEGA-AMINATION OF FATTY ACIDS	19/09/13	19	81.6%	467
WO 2013 024114 A2	BIOTECHNOLOGICAL SYNTHESIS PROCESS OF OMEGA-FUNCTIONALIZED CARBON ACIDS AND CARBON ACID ESTERS FROM SIMPLE CARBON SOURCES	21/02/13	119	81.6%	467
CA 2866215 A1	ENZYMATIC OMEGA-OXIDATION AND OMEGA-AMINATION OF FATTY ACIDS	19/09/13	19	81.6%	467
US 2014 0038850 A1	METHODS AND SYSTEMS FOR EVALUATING AND PREDICTING THE REACTIVITY OF MONOOXYGENASE ENZYMES	06/02/14	76	81.4%	467
US 2009 0061471 A1	Methods and systems for selective fluorination of organic molecules	05/03/09	60	81.4%	467
US 2009 0209010 A1	METHODS AND SYSTEMS FOR SELECTIVE FLUORINATION OF ORGANIC MOLECULES	20/08/09	60	81.4%	467
US 8026085 B2	Methods and systems for selective fluorination of organic molecules	27/09/11	60	81.4%	467
US 8252559 B2	Methods and systems for selective fluorination of organic molecules	28/08/12	60	81.4%	467
US 2008 0220419 A1	Method of Isolating P450 Gene	11/09/08	3	80.5%	467
WO 2006 051729 A1	METHOD OF ISOLATING P450 GENE	18/05/06	60	80.5%	467
EP 2017334 A2	Method of isolating P450 Gene	21/01/09	3	80.5%	467
US 2010 0217032 A1	PROCESS FOR PREPARING PRAVASTATIN	26/08/10	6	61.9%	688

JP 2010512733 A		30/04/10	26	61.9%	688
WO 2008 071673 A1	PROCESS FOR PREPARING PRAVASTATIN	19/06/08	6	61.9%	688
US 2010 0217032 A1	PROCESS FOR PREPARING PRAVASTATIN	26/08/10	35	61.8%	689
JP 2010512733 A		30/04/10	35	61.8%	689
WO 2008 071673 A1	PROCESS FOR PREPARING PRAVASTATIN	19/06/08	35	61.8%	689
US 2010 0217032 A1	PROCESS FOR PREPARING PRAVASTATIN	26/08/10	42	61.8%	689
JP 2010512733 A		30/04/10	42	61.8%	689
WO 2008 071673 A1	PROCESS FOR PREPARING PRAVASTATIN	19/06/08	42	61.8%	689
US 2010 0217032 A1	PROCESS FOR PREPARING PRAVASTATIN	26/08/10	40	61.8%	689
JP 2010512733 A		30/04/10	40	61.8%	689
WO 2008 071673 A1	PROCESS FOR PREPARING PRAVASTATIN	19/06/08	40	61.8%	689
US 2010 0217032 A1	PROCESS FOR PREPARING PRAVASTATIN	26/08/10	36	61.6%	688
JP 2010512733 A		30/04/10	36	61.6%	688
WO 2008 071673 A1	PROCESS FOR PREPARING PRAVASTATIN	19/06/08	36	61.6%	688
US 2010 0217032 A1	PROCESS FOR PREPARING PRAVASTATIN	26/08/10	38	61.8%	688
JP 2010512733 A		30/04/10	38	61.8%	688
WO 2008 071673 A1	PROCESS FOR PREPARING PRAVASTATIN	19/06/08	38	61.8%	688
US 2010 0217032 A1	PROCESS FOR PREPARING PRAVASTATIN	26/08/10	39	61.7%	689
JP 2010512733 A		30/04/10	39	61.7%	689
WO 2008 071673 A1	PROCESS FOR PREPARING PRAVASTATIN	19/06/08	39	61.7%	689
US 2010 0217032 A1	PROCESS FOR PREPARING PRAVASTATIN	26/08/10	41	61.7%	689
JP 2010512733 A		30/04/10	41	61.7%	689
WO 2008 071673 A1	PROCESS FOR PREPARING PRAVASTATIN	19/06/08	41	61.7%	689
US 2010 0217032 A1	PROCESS FOR PREPARING PRAVASTATIN	26/08/10	37	61.5%	689
JP 2010512733 A		30/04/10	37	61.5%	689
WO 2008 071673 A1	PROCESS FOR PREPARING PRAVASTATIN	19/06/08	37	61.5%	689
US 2008 0220419 A1	Method of Isolating P450 Gene	11/09/08	2	79.4%	467
WO 2006 051729 A1	METHOD OF ISOLATING P450 GENE	18/05/06	59	79.4%	467
EP 2017334 A2	Method of isolating P450 Gene	21/01/09	2	79.4%	467

JP 2005065618 A	GENE ENCODING P450 USEFUL FOR CONVERSION OF ALKANE	17/03/05	23	79.9%	467
US 2012 0190635 A1	SELECTIVE OXIDATION OF C-H BONDS OF MODIFIED SUBSTRATES BY P450 MONOOXYGENASE	26/07/12	3	58.2%	737
WO 2011 038313 A2	SELECTIVE OXIDATION OF C-H BONDS OF MODIFIED SUBSTRATES BY P450 MONOOXYGENASE	31/03/11	3	58.2%	737
US 2008 0220419 A1	Method of Isolating P450 Gene	11/09/08	9	76.4%	467
WO 2006 051729 A1	METHOD OF ISOLATING P450 GENE	18/05/06	66	76.4%	467
JP 2009005687 A	METHOD FOR PRODUCING AROMATIC COMPOUND BY CYP153	15/01/09	14	76.4%	467
EP 2017334 A2	Method of isolating P450 Gene	21/01/09	9	76.4%	467
JP 2013198495 A	METHOD FOR PRODUCING AROMATIC COMPOUND BY CYP153	03/10/13	14	76.4%	467
US 2008 0220419 A1	Method of Isolating P450 Gene	11/09/08	6	74.9%	467
WO 2006 051729 A1	METHOD OF ISOLATING P450 GENE	18/05/06	63	74.9%	467
EP 2017334 A2	Method of isolating P450 Gene	21/01/09	6	74.9%	467
US 2008 0220419 A1	Method of Isolating P450 Gene	11/09/08	7	74.5%	467
WO 2006 051729 A1	METHOD OF ISOLATING P450 GENE	18/05/06	64	74.5%	467
EP 2017334 A2	Method of isolating P450 Gene	21/01/09	7	74.5%	467
US 2008 0220419 A1	Method of Isolating P450 Gene	11/09/08	11	74.9%	467
WO 2006 051729 A1	METHOD OF ISOLATING P450 GENE	18/05/06	68	74.9%	467
EP 2017334 A2	Method of isolating P450 Gene	21/01/09	11	74.9%	467
US 2008 0220419 A1	Method of Isolating P450 Gene	11/09/08	10	74.5%	467
WO 2006 051729 A1	METHOD OF ISOLATING P450 GENE	18/05/06	67	74.5%	467
EP 2017334 A2	Method of isolating P450 Gene	21/01/09	10	74.5%	467
US 2008 0220419 A1	Method of Isolating P450 Gene	11/09/08	8	73.2%	467
WO 2006 051729 A1	METHOD OF ISOLATING P450 GENE	18/05/06	65	73.2%	467

EP 2017334 A2	Method of isolating P450 Gene	21/01/09	8	73.2%	467
WO 2008 105512 A1	E. COLI CAPABLE OF EXPRESSING CYTOCHROME P- 450, AND BIOCONVERSION METHOD USING THE SAME TRANSFORMED STRAIN DERIVED FROM STRAIN DEFICIENT IN MULTIDRUG EFFLUX PROTEIN, AND BIOCONVERSION METHOD	04/09/08	25	69.3%	453
WO 2008 105513 A1	USING THE SAME Method of Isolating P450	04/09/08	35	69.3%	453
US 2008 0220419 A1	Gene METHOD OF ISOLATING P450	11/09/08	1	70.1%	468
WO 2006 051729 A1	GENE Method of isolating P450	18/05/06	58	70.1%	468
EP 2017334 A2	Gene METHODS AND SYSTEMS FOR EVALUATING AND PREDICTING THE REACTIVITY OF MONOOXYGENASE	21/01/09	1	70.1%	468
US 2014 0038850 A1	ENZYMES Methods and systems for selective fluorination of	06/02/14	78	69.5%	452
US 2009 0061471 A1	organic molecules METHODS AND SYSTEMS FOR SELECTIVE FLUORINATION OF	05/03/09	62	69.5%	452
US 2009 0209010 A1	ORGANIC MOLECULES Methods and systems for selective fluorination of	20/08/09	62	69.5%	452
US 8026085 B2	organic molecules Methods and systems for selective fluorination of	27/09/11	62	69.5%	452
US 8252559 B2	organic molecules ENZYMATIC OMEGA- OXIDATION AND OMEGA-	28/08/12	62	69.5%	452
WO 2013 135650 A1	AMINATION OF FATTY ACIDS	19/09/13	44	69.5%	452