

SEQUENCE LISTING

<110> Queizúar, S. L.

<120> CEPA DE LEVADURA KLUYVEROMYCES LACTIS Y PROCEDIMIENTOS DE OBTENCIÓN DE AZÚCARES, ETANOL, BETA-GALACTOSIDASA Y BIOMASA

<130> P698/2011

<160> 5

<170> PatentIn version 3.3

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<211> 3479

<212> DNA

<213> Artificial Sequence

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<223> Kluyveromyces lactis alfa mating factor secretion domain, Kluyveromyces lactis beta-galactosidase and FLAG peptide

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Pro Lys Lys Val His Glu Asn Arg Leu Pro Thr Arg Ala Tyr Tyr Tyr	15	20	25	
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Phe Asp Ala Pro Leu Asp Ala Pro Asp Ala Lys Asn Leu Asp Trp Glu	45	50	55	
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Thr Ala Lys Lys Trp Ser Thr Ile Ser Val Pro Ser His Trp Glu Leu	60	65	70	75
cag gaa gac tgg aag tac ggt aaa cca att tac acg aac gta cag tac				650
Gln Glu Asp Trp Lys Tyr Gly Lys Pro Ile Tyr Thr Asn Val Gln Tyr	80	85	90	
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Pro Ile Pro Ile Asp Ile Pro Asn Pro Pro Thr Val Asn Pro Thr Gly	95	100	105	
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Val Tyr Ala Arg Thr Phe Glu Leu Asp Ser Lys Ser Ile Glu Ser Phe	110	115	120	
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Glu His Arg Leu Arg Phe Glu Gly Val Asp Asn Cys Tyr Glu Leu Tyr	125	130	135	
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Val Asn Gly Gln Tyr Val Gly Phe Asn Lys Gly Ser Arg Asn Gly Ala	140	145	150	155
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Val Lys Val Phe Lys Trp Ser Asp Ser Thr Tyr Ile Glu Asp Gln Asp	175	180	185	
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Gln Trp Trp Leu Ser Gly Ile Tyr Arg Asp Val Ser Leu Leu Lys Leu	190	195	200	
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Pro Lys Lys Ala His Ile Glu Asp Val Arg Val Thr Thr Thr Phe Val	205	210	215	
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Asp Ser Gln Tyr Gln Asp Ala Glu Leu Ser Val Lys Val Asp Val Gln	220	225	230	235
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Thr Ala Glu Asn Pro Thr Leu Tyr Lys Tyr Gln Leu Asp Leu Ile Gly	
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Leu Phe Arg Gly Val Asn Arg His Asp His His Pro Arg Phe Gly Arg	
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Val Tyr Asp Leu Phe Asp Lys Leu Gly Phe Trp Val Ile Asp Glu Ala	
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Arg Ala Ser Gln Leu Val Leu Arg Asp Val Asn His Pro Ser Ile Ile	
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Pro Thr Phe Glu Ile Met Glu Arg Trp Arg Lys Asn His Thr Asp Glu	
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Tyr Tyr Gly Phe Glu Thr Val Gln Lys Tyr Thr Ile Phe Ala Asn Lys	
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Asp Ala Pro Asp Ala Lys Asn Leu Asp Trp Glu Thr Ala Lys Lys Trp			
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Ser Thr Ile Ser Val Pro Ser His Trp Glu Leu Gln Glu Asp Trp Lys			
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Tyr Gly Lys Pro Ile Tyr Thr Asn Val Gln Tyr Pro Ile Pro Ile Asp			
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Lys Tyr Val Ser Glu Gly Glu Asn Leu Val Val Val Lys Val Phe Lys
165 170 175

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Gly Ile Tyr Arg Asp Val Ser Leu Leu Lys Leu Pro Lys Lys Ala His
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Ile Glu Asp Val Arg Val Thr Thr Thr Phe Val Asp Ser Gln Tyr Gln
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Asp Ala Glu Leu Ser Val Lys Val Asp Val Gln Gly Ser Ser Tyr Asp
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His Ile Asn Phe Thr Leu Tyr Glu Pro Glu Asp Gly Ser Lys Val Tyr
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Asp Ala Ser Ser Leu Leu Asn Glu Glu Asn Gly Asn Thr Thr Phe Ser
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Thr Lys Glu Phe Ile Ser Phe Ser Thr Lys Lys Asn Glu Glu Thr Ala
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Phe Lys Ile Asn Val Lys Ala Pro Glu His Trp Thr Ala Glu Asn Pro
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Thr Leu Tyr Lys Tyr Gln Leu Asp Leu Ile Gly Ser Asp Gly Ser Val
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Ile Gln Ser Ile Lys His His Val Gly Phe Arg Gln Val Glu Leu Lys
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340 345 350

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Phe Val Val Arg Asp Leu Ile Leu Met Lys Lys Phe Asn Ile Asn Ala
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Asp Val Ser Thr Ala Asp Gly Lys Leu His Lys Ala Tyr Ala Tyr Gly
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Ser Leu Lys Val Lys Gly Lys Glu Ile Ser Ser Lys Phe Glu Gly Ser
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Thr Val Asn Ser Arg Ile Ser Pro Val Val Phe Tyr Tyr Gly Phe Glu
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10

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