

SEQUENCE LISTING

<110> Novozymes A/S

<120> FAE from Malbranchea cinnamomea

<130> 11344.204-WO

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<170> PatentIn version 3.5

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<212> DNA

<213> Malbranchea cinnamomea

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acc	act	ttc	agg	ttg	ctt	gca	acc	ctc	ctc	ttt	gcc	agt	caa	gca	atc		103
Thr	Thr	Phe	Arg	Leu	Leu	Ala	Thr	Leu	Leu	Phe	Ala	Ser	Gln	Ala	Ile		
				10				15						20			

gcc	aaa	aca	gca	ata	acg	ccc	gag	ctt	ttc	caa	aaa	att	gaa	aga	tac		151
Ala	Lys	Thr	Ala	Ile	Thr	Pro	Glu	Leu	Phe	Gln	Lys	Ile	Glu	Arg	Tyr		
			25				30						35				

acg	gcc	ttt	tcg	gcg	gca	tca	tac	ggc	gac	acc	tgt	gcg	acg	ccc	ccg		199
Thr	Ala	Phe	Ser	Ala	Ala	Ser	Tyr	Gly	Asp	Thr	Cys	Ala	Thr	Pro	Pro		
		40					45					50					

ttt	ggc	agc	tca	gtc	gtc	aaa	tac	ttc	aat	gac	gac	gcg	acc	gac	acg		247
Phe	Gly	Ser	Ser	Val	Val	Lys	Tyr	Phe	Asn	Asp	Asp	Ala	Thr	Asp	Thr		
	55					60					65						

cag	gga	acg	ctg	ttt	cgc	gac	gat	gcg	aat	gag	gag	att	gtc	ctt	gcc		295
Gln	Gly	Thr	Leu	Phe	Arg	Asp	Asp	Ala	Asn	Glu	Glu	Ile	Val	Leu	Ala		
70					75					80					85		

ttt	cgt	ggc	act	tcg	aca	ccg	aaa	gat	ctc	gac	aca	gat	ttc	gca	ttc		343
Phe	Arg	Gly	Thr	Ser	Thr	Pro	Lys	Asp	Leu	Asp	Thr	Asp	Phe	Ala	Phe		
				90					95					100			

acc	ttg	gtt	ccc	ttg	aat	gcg	gag	ggc	acc	gat	tgt	cct	tct	tgc	aag		391
Thr	Leu	Val	Pro	Leu	Asn	Ala	Glu	Gly	Thr	Asp	Cys	Pro	Ser	Cys	Lys		
			105					110					115				

gtt	cac	gag	ggt	ttt	cag	aag	gcc	tac	aac	tcc	atc	tca	gct	gac	gtg		439
Val	His	Glu	Gly	Phe	Gln	Lys	Ala	Tyr	Asn	Ser	Ile	Ser	Ala	Asp	Val		
		120					125					130					

att	tcc	gcc	gtg	gaa	agc	ctg	aag	caa	tcc	cag	ccc	tca	tac	agt	atc		487
Ile	Ser	Ala	Val	Glu	Ser	Leu	Lys	Gln	Ser	Gln	Pro	Ser	Tyr	Ser	Ile		

135	140	145	
gtc ctc acg ggc cat tct ctg ggt gga ggg ata gcg gct atc gcc tca			535
Val Leu Thr Gly His Ser Leu Gly Gly Gly Ile Ala Ala Ile Ala Ser			
150	155	160	165
tcc tca cta gtc gga cgg gga cac gag atc aag aca tac act ttt ggt			583
Ser Ser Leu Val Gly Arg Gly His Glu Ile Lys Thr Tyr Thr Phe Gly			
	170	175	180
gag cca cgt aac ggc gat tca aac ttc gcg gat tac ctc aac ggc caa			631
Glu Pro Arg Asn Gly Asp Ser Asn Phe Ala Asp Tyr Leu Asn Gly Gln			
	185	190	195
gtc cct ccc agt gac tat ttc cgc gtg acc cat gcg aat gac ggt gtg			679
Val Pro Pro Ser Asp Tyr Phe Arg Val Thr His Ala Asn Asp Gly Val			
	200	205	210
ccc cag att ccg ccc cga gcc ttg ggg tat caa cac cat ggt aca gaa			727
Pro Gln Ile Pro Pro Arg Ala Leu Gly Tyr Gln His His Gly Thr Glu			
	215	220	225
tat tgg caa agt aac aag gaa tct aat gat gcc tca agc aca ttc cag			775
Tyr Trp Gln Ser Asn Lys Glu Ser Asn Asp Ala Ser Ser Thr Phe Gln			
	230	235	240
tgc acc ggc gct gag ccc gcg gac tgc aac gcc tcg cag gat ttt ggg			823
Cys Thr Gly Ala Glu Pro Ala Asp Cys Asn Ala Ser Gln Asp Phe Gly			
	250	255	260
gac aat ccc atc aac ggt gct cac ttg ggc tac tca aac tcc ctc att			871
Asp Asn Pro Ile Asn Gly Ala His Leu Gly Tyr Ser Asn Ser Leu Ile			
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ggc aac tct ctg ttc att gct gcc tgt ggg gcg tca ctt tag			913
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Lys Ile Glu Arg Tyr Thr Ala Phe Ser Ala Ala Ser Tyr Gly Asp Thr		
	35	40
Cys Ala Thr Pro Pro Phe Gly Ser Ser Val Val Lys Tyr Phe Asn Asp		
	50	55
		60

Asp Ala Thr Asp Thr Gln Gly Thr Leu Phe Arg Asp Asp Ala Asn Glu
65 70 75 80

Glu Ile Val Leu Ala Phe Arg Gly Thr Ser Thr Pro Lys Asp Leu Asp
85 90 95

Thr Asp Phe Ala Phe Thr Leu Val Pro Leu Asn Ala Glu Gly Thr Asp
100 105 110

Cys Pro Ser Cys Lys Val His Glu Gly Phe Gln Lys Ala Tyr Asn Ser
115 120 125

Ile Ser Ala Asp Val Ile Ser Ala Val Glu Ser Leu Lys Gln Ser Gln
130 135 140

Pro Ser Tyr Ser Ile Val Leu Thr Gly His Ser Leu Gly Gly Gly Ile
145 150 155 160

Ala Ala Ile Ala Ser Ser Ser Leu Val Gly Arg Gly His Glu Ile Lys
165 170 175

Thr Tyr Thr Phe Gly Glu Pro Arg Asn Gly Asp Ser Asn Phe Ala Asp
180 185 190

Tyr Leu Asn Gly Gln Val Pro Pro Ser Asp Tyr Phe Arg Val Thr His
195 200 205

Ala Asn Asp Gly Val Pro Gln Ile Pro Pro Arg Ala Leu Gly Tyr Gln
210 215 220

His His Gly Thr Glu Tyr Trp Gln Ser Asn Lys Glu Ser Asn Asp Ala
225 230 235 240

Ser Ser Thr Phe Gln Cys Thr Gly Ala Glu Pro Ala Asp Cys Asn Ala
245 250 255

Ser Gln Asp Phe Gly Asp Asn Pro Ile Asn Gly Ala His Leu Gly Tyr
260 265 270

Ser Asn Ser Leu Ile Gly Asn Ser Leu Phe Ile Ala Ala Cys Gly Ala
275 280 285

Ser Leu
290