

[Listado de Secuencia]

LISTADO DE SECUENCIA

<110> Astellas Pharma Inc.

<120> MÉTODO PARA EL TRATAMIENTO DE CÁNCER UTILIZANDO CÉLULA ADYUVANTE ARTIFICIAL (aAVC)

<130> A20025A00

<160> 6

<170> PatentIn version 3.5

<210> 1

<211> 1554

<212> DNA

<213> Secuencia Artificial

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<223> Ácido nucleico sintético que codifica WT1 humano

<220>

<221> CDS

<222> (1).. (1554)

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Thr Leu Arg Ser Gly Pro Gly Cys Leu Gln Gln Pro Glu Gln Gln Gly
20 25 30

gtg cgc gat cct ggc gga att tgg gcc aaa ctg gga gcc gcc gaa gcc
Val Arg Asp Pro Gly Gly Ile Trp Ala Lys Leu Gly Ala Ala Glu Ala
35 40 45

agc gct gaa aga ctg cag ggc aga aga agc aga ggc gcc agc gga tct
Ser Ala Glu Arg Leu Gln Gly Arg Arg Ser Arg Gly Ala Ser Gly Ser
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gag ccc cag cag atg gga tct gac gtg cgg gac ctg aat gcc ctg ctg
Glu Pro Gln Gln Met Gly Ser Asp Val Arg Asp Leu Asn Ala Leu Leu
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cct gct gtg cct tct ctg ggc gga ggc gga gga tgt gct ctg cct gtg
Pro Ala Val Pro Ser Leu Gly Gly Gly Gly Gly Cys Ala Leu Pro Val
85 90 95

tct ggc gct gct cag tgg gct ccc gtg ctg gat ttt gct cct cct ggc
Ser Gly Ala Ala Gln Trp Ala Pro Val Leu Asp Phe Ala Pro Pro Gly
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gct tct gcc tac ggc tct ctg gga gga cct gct cct cca cca gct cca
Ala Ser Ala Tyr Gly Ser Leu Gly Gly Pro Ala Pro Pro Pro Ala Pro
115 120 125

48

96

144

192

240

288

336

384

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gcc aga atg ttc ccc aac gcc ccc tac ctg cct agc tgc ctg gaa agc Ala Arg Met Phe Pro Asn Ala Pro Tyr Leu Pro Ser Cys Leu Glu Ser 195 200 205	624
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aca cct agc tac ggc cac acc cct tct cat cac gcc gcc cag ttc ccc Thr Pro Ser Tyr Gly His Thr Pro Ser His His Ala Ala Gln Phe Pro 225 230 235 240	720
aat cac tcc ttc aag cac gag gac ccc atg ggc cag cag gga agc ctg Asn His Ser Phe Lys His Glu Asp Pro Met Gly Gln Gln Gly Ser Leu 245 250 255	768
gga gag cag cag tac agc gtg ccc cct cct gtg tac ggc tgt cac acc Gly Glu Gln Gln Tyr Ser Val Pro Pro Pro Val Tyr Gly Cys His Thr 260 265 270	816
cct acc gat agc tgc aca ggc agc cag gct ctg ctg ctg aga acc ccc Pro Thr Asp Ser Cys Thr Gly Ser Gln Ala Leu Leu Leu Arg Thr Pro 275 280 285	864
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acc tgg aac cag atg aac ctg ggc gcc acc ctg aaa ggc gtg gcc gct Thr Trp Asn Gln Met Asn Leu Gly Ala Thr Leu Lys Gly Val Ala Ala 305 310 315 320	960
gga tct agc agc tcc gtg aag tgg aca gag ggc cag agc aac cac agc Gly Ser Ser Ser Ser Val Lys Trp Thr Glu Gly Gln Ser Asn His Ser 325 330 335	1008
acc ggc tac gag tcc gac aac cac acc acc cct atc ctg tgc gga gcc Thr Gly Tyr Glu Ser Asp Asn His Thr Thr Pro Ile Leu Cys Gly Ala 340 345 350	1056
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Secuencia Artificial

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 <223>

Construcción Sintética

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Val	Arg	Asp	Pro	Gly	Gly	Ile	Trp	Ala	Lys	Leu	Gly	Ala	Ala	Glu	Ala				
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Ser	Ala	Glu	Arg	Leu	Gln	Gly	Arg	Arg	Ser	Arg	Gly	Ala	Ser	Gly	Ser				
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Glu	Pro	Gln	Gln	Met	Gly	Ser	Asp	Val	Arg	Asp	Leu	Asn	Ala	Leu	Leu				
65					70					75					80				
Pro	Ala	Val	Pro	Ser	Leu	Gly	Gly	Gly	Gly	Gly	Cys	Ala	Leu	Pro	Val				
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Ser	Gly	Ala	Ala	Gln	Trp	Ala	Pro	Val	Leu	Asp	Phe	Ala	Pro	Pro	Gly				
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Ala	Ser	Ala	Tyr	Gly	Ser	Leu	Gly	Gly	Pro	Ala	Pro	Pro	Pro	Ala	Pro				
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Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	His	Ser	Phe	Ile	Lys	Gln	Glu	Pro				
	130					135					140								
Ser	Trp	Gly	Gly	Ala	Glu	Pro	His	Glu	Glu	Gln	Cys	Leu	Ser	Ala	Phe				
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Thr	Val	His	Phe	Ser	Gly	Gln	Phe	Thr	Gly	Thr	Ala	Gly	Ala	Cys	Arg				
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Tyr	Gly	Pro	Phe	Gly	Pro	Pro	Pro	Pro	Ser	Gln	Ala	Ser	Ser	Gly	Gln				
			180					185					190						
Ala	Arg	Met	Phe	Pro	Asn	Ala	Pro	Tyr	Leu	Pro	Ser	Cys	Leu	Glu	Ser				
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Gln	Pro	Ala	Ile	Arg	Asn	Gln	Gly	Tyr	Ser	Thr	Val	Thr	Phe	Asp	Gly				
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Thr	Pro	Ser	Tyr	Gly	His	Thr	Pro	Ser	His	His	Ala	Ala	Gln	Phe	Pro				
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Asn	His	Ser	Phe	Lys	His	Glu	Asp	Pro	Met	Gly	Gln	Gln	Gly	Ser	Leu				
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Gly Glu Gln Gln Tyr Ser Val Pro Pro Pro Val Tyr Gly Cys His Thr
 260 265 270
 Pro Thr Asp Ser Cys Thr Gly Ser Gln Ala Leu Leu Leu Arg Thr Pro
 275 280 285
 Tyr Ser Ser Asp Asn Leu Tyr Gln Met Thr Ser Gln Leu Glu Cys Met
 290 295 300
 Thr Trp Asn Gln Met Asn Leu Gly Ala Thr Leu Lys Gly Val Ala Ala
 305 310 315 320
 Gly Ser Ser Ser Ser Val Lys Trp Thr Glu Gly Gln Ser Asn His Ser
 325 330 335
 Thr Gly Tyr Glu Ser Asp Asn His Thr Thr Pro Ile Leu Cys Gly Ala
 340 345 350
 Gln Tyr Arg Ile His Thr His Gly Val Phe Arg Gly Ile Gln Asp Val
 355 360 365
 Arg Arg Val Pro Gly Val Ala Pro Thr Leu Val Arg Ser Ala Ser Glu
 370 375 380
 Thr Ser Glu Lys Arg Pro Phe Met Cys Ala Tyr Pro Gly Cys Asn Lys
 385 390 395 400
 Arg Tyr Phe Lys Leu Ser His Leu Gln Met His Ser Arg Lys His Thr
 405 410 415
 Gly Glu Lys Pro Tyr Gln Cys Asp Phe Lys Asp Cys Glu Arg Arg Phe
 420 425 430
 Ser Arg Ser Asp Gln Leu Lys Arg His Gln Arg Arg His Thr Gly Val
 435 440 445
 Lys Pro Phe Gln Cys Lys Thr Cys Gln Arg Lys Phe Ser Arg Ser Asp
 450 455 460
 His Leu Lys Thr His Thr Arg Thr His Thr Gly Lys Thr Ser Glu Lys
 465 470 475 480
 Pro Phe Ser Cys Arg Trp Pro Ser Cys Gln Lys Lys Phe Ala Arg Ser

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gga tct gct gaa gtg ccc cag aga ctg ttc ccc ctg cgg tgc ctg cag				96
Gly Ser Ala Glu Val Pro Gln Arg Leu Phe Pro Leu Arg Cys Leu Gln	20	25	30	
atc agc agc ttc gcc aac agc agc tgg acc aga acc gat ggc ctg gcc				144
Ile Ser Ser Phe Ala Asn Ser Ser Trp Thr Arg Thr Asp Gly Leu Ala	35	40	45	
tgg ctg gga gag ctg cag aca cac agc tgg tcc aac gac agc gac acc				192
Trp Leu Gly Glu Leu Gln Thr His Ser Trp Ser Asn Asp Ser Asp Thr	50	55	60	
gtg cgg agc ctg aag cct tgg agc cag ggc acc ttt agc gac cag cag				240
Val Arg Ser Leu Lys Pro Trp Ser Gln Gly Thr Phe Ser Asp Gln Gln	65	70	75	80
tgg gag aca ctg cag cac atc ttc cgg gtg tac aga agc agc ttc acc				288
Trp Glu Thr Leu Gln His Ile Phe Arg Val Tyr Arg Ser Ser Phe Thr	85	90	95	
cgg gac gtg aaa gaa ttt gcc aag atg ctg cgg ctg agc tac ccc ctg				336
Arg Asp Val Lys Glu Phe Ala Lys Met Leu Arg Leu Ser Tyr Pro Leu	100	105	110	
gaa ctg cag gtg tcc gcc ggc tgt gaa gtg cac cct ggc aac gcc agc				384
Glu Leu Gln Val Ser Ala Gly Cys Glu Val His Pro Gly Asn Ala Ser	115	120	125	
aac aac ttc ttc cac gtg gcc ttc cag ggc aag gac ata ctg agc ttt				432

Asn 130	Asn	Phe	Phe	His	Val	Ala 135	Phe	Gln	Gly	Lys	Asp 140	Ile	Leu	Ser	Phe		
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Gln	Gly	Thr	Ser	Trp	Glu 150	Pro	Thr	Gln	Glu	Ala 155	Pro	Leu	Trp	Val	Asn 160		
ctg	gcc	atc	cag	gtg	ctg	aac	cag	gac	aag	tgg	acc	cgg	gaa	acc	gtg		528
Leu	Ala	Ile	Gln	Val 165	Leu	Asn	Gln	Asp	Lys 170	Trp	Thr	Arg	Glu	Thr 175	Val		
cag	tgg	ctg	ctg	aac	ggc	acc	tgt	ccc	cag	ttt	gtg	tcc	ggc	ctg	ctg		576
Gln	Trp	Leu	Leu	Asn 180	Gly	Thr	Cys	Pro 185	Gln	Phe	Val	Ser	Gly 190	Leu	Leu		
gaa	agc	ggc	aag	agc	gag	ctg	aag	aaa	caa	gtg	aag	ccc	aaa	gcc	tgg		624
Glu	Ser	Gly 195	Lys	Ser	Glu	Leu	Lys 200	Lys	Gln	Val	Lys	Pro 205	Lys	Ala	Trp		
ctg	agc	aga	ggc	cct	tct	cct	gga	cct	gga	cgg	ctg	ctg	ctc	gtg	tgt		672
Leu	Ser	Arg	Gly	Pro	Ser	Pro 215	Gly	Pro	Gly	Arg	Leu	Leu	Leu	Val	Cys		
cac	gtg	tcc	ggc	ttc	tac	ccc	aag	ccc	gtg	tgg	gtc	aag	tgg	atg	cgg		720
His	Val	Ser	Gly	Phe	Tyr 230	Pro	Lys	Pro	Val	Trp 235	Val	Lys	Trp	Met	Arg 240		
gga	gaa	cag	gaa	cag	cag	ggc	acc	cag	cct	ggc	gac	atc	ctg	cct	aac		768
Gly	Glu	Gln	Glu	Gln 245	Gln	Gly	Thr	Gln	Pro 250	Gly	Asp	Ile	Leu	Pro 255	Asn		
gcc	gac	gag	aca	tgg	tat	ctg	cgg	gcc	acc	ctg	gat	gtg	gtg	gct	ggc		816
Ala	Asp	Glu	Thr 260	Trp	Tyr	Leu	Arg	Ala 265	Thr	Leu	Asp	Val	Val 270	Ala	Gly		
gaa	gca	gcc	ggc	ctg	tcc	tgt	aga	gtg	aag	cac	agc	agc	ctg	gaa	gga		864
Glu	Ala	Ala 275	Gly	Leu	Ser	Cys	Arg 280	Val	Lys	His	Ser	Ser 285	Leu	Glu	Gly		
cag	gac	atc	gtg	ctg	tac	tgg	ggc	ggc	agc	tac	acc	agc	atg	gga	ctg		912
Gln	Asp	Ile	Val	Leu	Tyr 295	Trp	Gly	Gly	Ser	Tyr	Thr	Ser	Met	Gly	Leu		
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Ile	Ala	Leu	Ala	Val	Leu 310	Ala	Cys	Leu	Leu	Phe 315	Leu	Leu	Ile	Val	Gly 320		
ttc	acc	agc	cgg	ttc	aag	cgg	cag	acc	agc	tac	cag	ggc	gtg	ctc	tga		1008
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Secuencia Artificial

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Construcción Sintética

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Ile Ser Ser Phe Ala Asn Ser Ser Trp Thr Arg Thr Asp Gly Leu Ala
35 40 45

Trp Leu Gly Glu Leu Gln Thr His Ser Trp Ser Asn Asp Ser Asp Thr
50 55 60

Val Arg Ser Leu Lys Pro Trp Ser Gln Gly Thr Phe Ser Asp Gln Gln
65 70 75 80

Trp Glu Thr Leu Gln His Ile Phe Arg Val Tyr Arg Ser Ser Phe Thr
85 90 95

Arg Asp Val Lys Glu Phe Ala Lys Met Leu Arg Leu Ser Tyr Pro Leu
100 105 110

Glu Leu Gln Val Ser Ala Gly Cys Glu Val His Pro Gly Asn Ala Ser
115 120 125

Asn Asn Phe Phe His Val Ala Phe Gln Gly Lys Asp Ile Leu Ser Phe
130 135 140

Gln Gly Thr Ser Trp Glu Pro Thr Gln Glu Ala Pro Leu Trp Val Asn
145 150 155 160

Leu Ala Ile Gln Val Leu Asn Gln Asp Lys Trp Thr Arg Glu Thr Val
165 170 175

Gln Trp Leu Leu Asn Gly Thr Cys Pro Gln Phe Val Ser Gly Leu Leu
180 185 190

Glu Ser Gly Lys Ser Glu Leu Lys Lys Gln Val Lys Pro Lys Ala Trp
195 200 205

Leu Ser Arg Gly Pro Ser Pro Gly Pro Gly Arg Leu Leu Leu Val Cys
210 215 220

His Val Ser Gly Phe Tyr Pro Lys Pro Val Trp Val Lys Trp Met Arg
 225 230 235 240
 Gly Glu Gln Glu Gln Gln Gly Thr Gln Pro Gly Asp Ile Leu Pro Asn
 245 250 255
 Ala Asp Glu Thr Trp Tyr Leu Arg Ala Thr Leu Asp Val Val Ala Gly
 260 265 270
 Glu Ala Ala Gly Leu Ser Cys Arg Val Lys His Ser Ser Leu Glu Gly
 275 280 285
 Gln Asp Ile Val Leu Tyr Trp Gly Gly Ser Tyr Thr Ser Met Gly Leu
 290 295 300
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Secuencia Artificial

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Ácido nucleico sintético que codifica CD1d de ratón

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Gly Gln Ser Glu Ala Gln Gln Lys Asn Tyr Thr Phe Arg Cys Leu Gln	
20 25 30	
atg agc agc ttc gcc aac aga agc tgg tcc cgg acc gac agc gtc gtg	144
Met Ser Ser Phe Ala Asn Arg Ser Trp Ser Arg Thr Asp Ser Val Val	
35 40 45	
tgg ctg gga gat ctg cag acc cac aga tgg tcc aac gac agc gcc acc	192
Trp Leu Gly Asp Leu Gln Thr His Arg Trp Ser Asn Asp Ser Ala Thr	

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cgg gac atc cag gaa ctc gtg aag atg atg agc ccc aaa gag gac tac Arg Asp Ile Gln Glu Leu Val Lys Met Met Ser Pro Lys Glu Asp Tyr 100 105 110			336
ccc atc gag atc cag ctg agc gcc ggc tgc gag atg tac cct ggc aat Pro Ile Glu Ile Gln Leu Ser Ala Gly Cys Glu Met Tyr Pro Gly Asn 115 120 125			384
gcc agc gag agc ttc ctg cac gtg gcc ttc cag ggc aaa tac gtc gtg Ala Ser Glu Ser Phe Leu His Val Ala Phe Gln Gly Lys Tyr Val Val 130 135 140			432
cgg ttc tgg ggc acc agc tgg cag aca gtg cct ggc gct cct agc tgg Arg Phe Trp Gly Thr Ser Trp Gln Thr Val Pro Gly Ala Pro Ser Trp 145 150 155 160			480
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ctg ctg gaa gcc ggc aag agc gac ctg gaa aag cag gaa aag ccc gtg Leu Leu Glu Ala Gly Lys Ser Asp Leu Glu Lys Gln Glu Lys Pro Val 195 200 205			624
gcc tgg ctg agc agc gtg cca tct tct gcc gat ggc cac aga cag ctc Ala Trp Leu Ser Ser Val Pro Ser Ser Ala Asp Gly His Arg Gln Leu 210 215 220			672
gtg tgc cac gtg tcc ggc ttc tac ccc aag ccc gtg tgg gtc atg tgg Val Cys His Val Ser Gly Phe Tyr Pro Lys Pro Val Trp Val Met Trp 225 230 235 240			720
atg cgg ggc gac cag gaa cag cag ggc aca cac aga ggc gac ttt ctg Met Arg Gly Asp Gln Glu Gln Gln Gly Thr His Arg Gly Asp Phe Leu 245 250 255			768
ccc aac gcc gac gag aca tgg tat ctg caa gcc acc ctg gac gtg gaa Pro Asn Ala Asp Glu Thr Trp Tyr Leu Gln Ala Thr Leu Asp Val Glu 260 265 270			816
gct ggc gag gaa gct gga ctg gcc tgc aga gtg aag cac agc tct ctg Ala Gly Glu Glu Ala Gly Leu Ala Cys Arg Val Lys His Ser Ser Leu 275 280 285			864

ggc ggc cag gac atc atc ctg tac tgg gat gcc aga cag gcc cca gtg Gly Gly Gln Asp Ile Ile Leu Tyr Trp Asp Ala Arg Gln Ala Pro Val 290 295 300	912
ggc ctg atc gtg ttc atc gtg ctg atc atg ctg gtg gtc gtg gcc gcc Gly Leu Ile Val Phe Ile Val Leu Ile Met Leu Val Val Val Gly Ala 305 310 315 320	960
gtg gtg tac tac atc tgg cgg aga aga agc gcc tac cag gat atc aga Val Val Tyr Tyr Ile Trp Arg Arg Arg Ser Ala Tyr Gln Asp Ile Arg 325 330 335	1008
tga	1011

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Secuencia Artificial

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Construcción Sintética

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Met Ser Ser Phe Ala Asn Arg Ser Trp Ser Arg Thr Asp Ser Val Val 35 40 45
Trp Leu Gly Asp Leu Gln Thr His Arg Trp Ser Asn Asp Ser Ala Thr 50 55 60
Ile Ser Phe Thr Lys Pro Trp Ser Gln Gly Lys Leu Ser Asn Gln Gln 65 70 75 80
Trp Glu Lys Leu Gln His Met Phe Gln Val Tyr Arg Val Ser Phe Thr 85 90 95
Arg Asp Ile Gln Glu Leu Val Lys Met Met Ser Pro Lys Glu Asp Tyr 100 105 110
Pro Ile Glu Ile Gln Leu Ser Ala Gly Cys Glu Met Tyr Pro Gly Asn 115 120 125
Ala Ser Glu Ser Phe Leu His Val Ala Phe Gln Gly Lys Tyr Val Val

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Thr	Val	Gln	Met	Leu	Leu	Asn	Asp	Thr	Cys	Pro	Leu	Phe	Val	Arg	Gly		
			180					185					190				
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Ala	Trp	Leu	Ser	Ser	Val	Pro	Ser	Ser	Ala	Asp	Gly	His	Arg	Gln	Leu		
	210					215					220						
Val	Cys	His	Val	Ser	Gly	Phe	Tyr	Pro	Lys	Pro	Val	Trp	Val	Met	Trp		
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Met	Arg	Gly	Asp	Gln	Glu	Gln	Gln	Gly	Thr	His	Arg	Gly	Asp	Phe	Leu		
				245					250					255			
Pro	Asn	Ala	Asp	Glu	Thr	Trp	Tyr	Leu	Gln	Ala	Thr	Leu	Asp	Val	Glu		
			260					265					270				
Ala	Gly	Glu	Glu	Ala	Gly	Leu	Ala	Cys	Arg	Val	Lys	His	Ser	Ser	Leu		
		275					280					285					
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	290					295					300						
Gly	Leu	Ile	Val	Phe	Ile	Val	Leu	Ile	Met	Leu	Val	Val	Val	Gly	Ala		
	305				310					315					320		
Val	Val	Tyr	Tyr	Ile	Trp	Arg	Arg	Arg	Ser	Ala	Tyr	Gln	Asp	Ile	Arg		
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