

LISTA DE SECUENCIAS

<110> UNIVERSIDADE DE SANTIAGO DE COMPOSTELA

<120> PROTEÍNA muNS CAPAZ DE FORMAR INCLUSIONES EN EL RETÍCULO
ENDOPLASMÁTICO, MÉTODOS DE USO Y USOS DE LA MISMA

<130> P11023ES00

<160> 37

<170> PatentIn versión 3.5

<210> 1

<211> 20

<212> PRT

<213> Secuencia Artificial

<220>

<223> péptido señal

<400> 1

Met	Gly	Trp	Ser	Leu	Ile	Leu	Leu	Phe	Leu	Val	Ala	Val	Ala	Thr	Gly
1				5					10					15	

Val	His	Ser	Gln
			20

<210> 2

<211> 29

<212> PRT

<213> Secuencia Artificial

<220>

<223> péptido señal

<400> 2

Met	Met	Ser	Phe	Val	Ser	Leu	Leu	Leu	Val	Gly	Ile	Leu	Phe	Trp	Ala
1				5					10					15	

Thr	Glu	Ala	Glu	Gln	Leu	Thr	Lys	Cys	Glu	Val	Phe	Gln
			20					25				

<210> 3

<211> 25

<212> PRT

<213> Homo sapiens

<400> 3

Met	Gly	Thr	Ala	Arg	Ile	Ala	Pro	Gly	Leu	Ala	Leu	Leu	Leu	Cys	Cys
1				5					10					15	

Pro	Val	Leu	Ser	Ser	Ala	Tyr	Ala	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----

20

25

<210> 4
<211> 25
<212> PRT
<213> Homo sapiens

<400> 4

Met Ser Val Leu Thr Pro Leu Leu Leu Arg Gly Leu Thr Gly Ser Ala
1 5 10 15

Arg Arg Leu Pro Val Pro Arg Ala Lys
20 25

<210> 5
<211> 20
<212> PRT
<213> Homo sapiens

<400> 5

Met Val Leu Leu Leu Ile Leu Ser Val Leu Leu Leu Lys Glu Asp Val
1 5 10 15

Arg Gly Ser Ala
20

<210> 6
<211> 38
<212> PRT
<213> Homo sapiens

<400> 6

Met Ala Ser Pro Arg Ser Ser Gly Gln Pro Gly Pro Pro Pro Pro Pro
1 5 10 15

Pro Pro Pro Pro Ala Arg Leu Leu Leu Leu Leu Leu Leu Pro Leu Leu
20 25 30

Leu Pro Leu Ala Pro Gly
35

<210> 7
<211> 17
<212> PRT
<213> Homo sapiens

<400> 7

Met Leu Leu Ser Val Pro Leu Leu Leu Gly Leu Leu Gly Leu Ala Val
1 5 10 15

Ala

<210> 8
<211> 31
<212> PRT
<213> Homo sapiens

<400> 8

Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly
1 5 10 15

Lys Gly Leu Thr Val Ala Gly Leu Arg Ser Gly His Ile Tyr Gly
20 25 30

<210> 9
<211> 635
<212> PRT
<213> Orthoreovirus aviar

<400> 9

Met Ala Ser Thr Lys Trp Gly Asp Lys Pro Met Ser Leu Ser Met Ser
1 5 10 15

His Asp Gly Ser Ser Ile Arg Ser Ala Ala Ser Gln Phe Leu Ser Val
20 25 30

Pro Leu Ser His Ser Thr Pro Ile Pro Pro Gln Arg Lys Thr Val Leu
35 40 45

Leu Lys Phe Met Ile Gly Asp Glu Leu Ile Thr Val Gln Gly Ala Leu
50 55 60

Ala Pro Phe Asp Glu Tyr Trp Tyr Asp Asn Gln Pro Leu Leu Ala Gln
65 70 75 80

Ala Val Glu Met Leu Ala Ser Ala Asp Arg Leu Arg Gln Phe Glu His
85 90 95

Tyr Glu Lys Phe Leu Leu Lys Lys Gly His Gln Ile Thr Glu Ile Met
100 105 110

Asn Arg Leu Arg Leu Phe Phe Thr Asp Val Leu Lys Val Lys Met Glu
115 120 125

Ala Asp Ala Leu Pro Ala Leu Ala Gln Tyr Leu Met Val Gly Thr Leu

130		135		140
Glu Ala Val Ser Thr	Ala Asp Ser Pro Asp	Ala Cys Ala Pro Val Thr		
145	150	155		160
Ser Lys Ile Leu	Ala Lys Gln Gln Thr	Ile Ala Lys Ser Pro Gly Arg		
	165	170		175
Leu Asp Glu Glu Glu Tyr Asn Val	Ile Arg Ser Arg Phe	Leu Thr His		
	180	185		190
Glu Val Phe Asp Leu Thr Ser Asp Leu Pro Gly Val Gln Pro Phe Met				
	195	200		205
Asp Met Tyr Tyr Ala Thr Val Pro Arg Ala Asp Ser Thr Gly Trp Cys				
	210	215		220
Val Tyr Arg Arg Lys Gly Leu Leu Ile Tyr Ala Pro Asp Glu Gln Phe				
	225	230		235
Ser Asp Leu Thr Ile Phe Ser Thr Arg Leu Thr Ala Ser Arg Glu Leu				
	245	250		255
Gln Leu Val Ala Gly Asp Val Val Val Ala Cys Phe Asp Leu Met Asp				
	260	265		270
Val Ser Asp Ile Ala Pro Ser His His Ala Ser Val Gln Glu Glu Arg				
	275	280		285
Thr Leu Gly Thr Ser Lys Tyr Ser Asn Val Thr Ala Asn Asp His Pro				
	290	295		300
Leu Val Phe Phe Ser Pro Ser Ala Leu Arg Trp Ala Ile Asp His Ala				
	305	310		315
Cys Thr Asp Ser Leu Val Ser Thr Arg Asn Ile Arg Val Cys Val Gly				
	325	330		335
Ile Asp Pro Leu Val Thr Arg Trp Thr Arg Asp Gly Val Gln Glu Ala				
	340	345		350
Ala Ile Leu Met Asp Asp Lys Leu Pro Ser Ala Gly Arg Ala Arg Met				
	355	360		365
Ala Leu Arg Thr Leu Leu Leu Ala Arg Arg Ser Pro Met Pro Ser Phe				
	370	375		380

Leu Leu Gly Ala Leu Lys Gln Ser Gly Gly Gln Leu Leu Glu His Tyr
385 390 395 400

Arg Cys Asp Ala Ala Asn Arg Tyr Gly Ser Pro Thr Val Pro Ile Ser
405 410 415

His Pro Pro Pro Cys Ser Lys Cys Pro Glu Leu Lys Glu Gln Ile Ala
420 425 430

Lys Leu Ser Ser Ser Pro Ile Pro Lys Val Asp Ser Ser Val Gly Pro
435 440 445

Ala Ala Leu Leu Ser Lys Ile Ala Asp Leu Gln Arg Ala Asn Arg Glu
450 455 460

Leu Ser Leu Lys Leu Val Asp Val Gln Pro Ala Arg Glu Asp His Leu
465 470 475 480

Leu Ala Tyr Leu Asn Glu His Val Cys Val Asn Ala Lys Asp His Glu
485 490 495

Lys Gly Leu Leu Ala Arg Cys Asn Val Ser Gly Asp Ser Ile Ser Ser
500 505 510

Ile Leu Gly Gln Arg Met Lys Asn Arg Glu Arg Phe Glu Thr Arg Leu
515 520 525

Arg His Glu Ala Ser Ala Glu Trp Glu Pro Arg Val Glu Ala Leu Asn
530 535 540

Gln Glu Leu Ala Lys Ala Arg Val Glu Gln Gln Asp Met Met Thr Gln
545 550 555 560

Ser Leu Gln Tyr Leu Asn Glu Arg Asp Glu Leu Leu Gln Glu Val Asp
565 570 575

Glu Leu Lys Arg Glu Leu Thr Thr Leu Arg Ser Ala Asn Val Arg Leu
580 585 590

Asn Ala Asp Asn His Arg Met Ser Arg Ala Thr Arg Val Gly Asp Ala
595 600 605

Phe Val Ser Asp Val Glu Pro Leu Pro Ser Gly Ile Pro Gly Glu Ser
610 615 620

Lys Pro Ser Met Glu Glu Leu Val Asp Asp Leu
625 630 635

<210> 10
<211> 721
<212> PRT
<213> Orthoreovirus mamífero

<400> 10

Met Ala Ser Phe Lys Gly Phe Ser Ala Asn Thr Val Pro Val Ser Lys
1 5 10 15

Ala Lys Arg Asp Ile Ser Ser Leu Ala Ala Thr Pro Gly Leu Arg Ser
20 25 30

Gln Ser Phe Thr Pro Ser Val Asp Met Ser Gln Ser Arg Glu Phe Leu
35 40 45

Thr Lys Ala Ile Glu Gln Gly Ser Met Ser Ile Pro Tyr Gln His Val
50 55 60

Asn Val Pro Lys Val Asp Arg Lys Val Val Ser Leu Val Val Arg Pro
65 70 75 80

Phe Ser Ser Gly Ala Phe Ser Ile Ser Gly Val Ile Ser Pro Ala His
85 90 95

Ala Tyr Leu Leu Glu Cys Leu Pro Gln Leu Glu Gln Ala Met Ala Phe
100 105 110

Val Ala Ser Pro Glu Ser Phe Gln Ala Ser Asp Val Ala Lys Arg Phe
115 120 125

Ala Ile Lys Pro Gly Met Ser Leu Gln Asp Ala Ile Thr Ala Phe Ile
130 135 140

Asn Phe Val Ser Ala Met Leu Lys Met Thr Val Thr Arg Gln Asn Phe
145 150 155 160

Asp Val Ile Val Ala Glu Ile Glu Arg Leu Ala Ser Thr Ser Val Ser
165 170 175

Val Arg Thr Lys Glu Ala Lys Val Ala Asp Glu Glu Leu Met Leu Phe
180 185 190

Gly Leu Asp His Arg Gly Pro Gln Gln Leu Asp Val Ser Asp Ala Lys

195	200	205
Gly Ile Met Lys Ala Ala Asp Ile Gln Thr Thr His Asp Val His Leu 210 215 220		
Ala Pro Gly Val Gly Asn Ile Asp Pro Glu Ile Tyr Asn Glu Gly Arg 225 230 235 240		
Phe Met Phe Met Gln His Lys Pro Leu Ala Ala Asp Gln Ser Tyr Phe 245 250 255		
Thr Leu Glu Thr Ala Asp Tyr Phe Lys Ile Tyr Pro Thr Tyr Asp Glu 260 265 270		
His Asp Gly Arg Met Ala Asp Gln Lys Gln Ser Gly Leu Ile Leu Cys 275 280 285		
Thr Lys Asp Glu Val Leu Ala Glu Gln Thr Ile Phe Lys Leu Asp Ala 290 295 300		
Pro Asp Asp Lys Thr Val His Leu Leu Asp Arg Asp Asp Asp His Val 305 310 315 320		
Val Ala Arg Phe Thr Lys Val Phe Ile Glu Asp Val Ala Pro Gly His 325 330 335		
His Ala Ala Gln Arg Ser Gly Gln Arg Ser Val Leu Asp Asp Leu Tyr 340 345 350		
Ala Asn Thr Gln Val Ile Ser Ile Thr Ser Ala Ala Leu Lys Trp Val 355 360 365		
Val Lys His Gly Val Ser Asp Gly Ile Val Asn Arg Lys Asn Val Lys 370 375 380		
Val Cys Val Gly Phe Asp Pro Leu Tyr Thr Leu Ser Thr His Asn Gly 385 390 395 400		
Val Ser Leu Cys Ala Leu Leu Met Asp Glu Lys Leu Ser Val Leu Asn 405 410 415		
Ser Ala Cys Arg Met Thr Leu Arg Ser Leu Met Lys Thr Gly Arg Asp 420 425 430		
Val Asp Ala His Arg Ala Phe Gln Arg Val Leu Ser Gln Gly Tyr Thr 435 440 445		

Ser Leu Met Cys Tyr Tyr His Pro Ser Arg Lys Leu Ala Tyr Gly Glu
450 455 460

Val Leu Phe Leu Glu Arg Ser Asn Asp Val Thr Asp Gly Ile Lys Leu
465 470 475 480

Gln Leu Asp Ala Ser Arg Gln Cys His Glu Cys Pro Val Leu Gln Gln
485 490 495

Lys Val Val Glu Leu Glu Lys Gln Ile Ile Met Gln Lys Ser Ile Gln
500 505 510

Ser Asp Pro Thr Pro Val Ala Leu Gln Pro Leu Leu Ser Gln Leu Arg
515 520 525

Glu Leu Ser Ser Glu Val Thr Arg Leu Gln Met Glu Leu Ser Arg Ala
530 535 540

Gln Ser Leu Asn Ala Gln Leu Glu Ala Asp Val Lys Ser Ala Gln Ser
545 550 555 560

Cys Ser Leu Asp Met Tyr Leu Arg His His Thr Cys Ile Asn Gly His
565 570 575

Ala Lys Glu Asp Glu Leu Leu Asp Ala Val Arg Val Ala Pro Asp Val
580 585 590

Arg Arg Glu Ile Met Glu Lys Arg Ser Glu Val Arg Gln Gly Trp Cys
595 600 605

Glu Arg Ile Ser Lys Glu Ala Ala Ala Lys Cys Gln Thr Val Ile Asp
610 615 620

Asp Leu Thr Leu Met Asn Gly Lys Gln Ala Gln Glu Ile Thr Glu Leu
625 630 635 640

Arg Asp Ser Ala Glu Lys Tyr Glu Lys Gln Ile Ala Glu Leu Val Ser
645 650 655

Thr Ile Thr Gln Asn Gln Ile Thr Tyr Gln Gln Glu Leu Gln Ala Leu
660 665 670

Val Ala Lys Asn Val Glu Leu Asp Ala Leu Asn Gln Arg Gln Ala Lys
675 680 685

Ser Leu Arg Ile Thr Pro Ser Leu Leu Ser Ala Thr Pro Ile Asp Ser
690 695 700

Ala Asp Gly Val Ala Asp Leu Ile Asp Phe Ser Val Pro Thr Asp Glu
705 710 715 720

Leu

<210> 11
<211> 188
<212> PRT
<213> Orthoreovirus aviar

<400> 11

Pro Ala Val Leu Leu Ser Lys Ile Ala Asp Leu Gln Arg Ala Asn Arg
1 5 10 15

Glu Leu Ser Leu Lys Leu Val Asp Val Gln Pro Ala Arg Glu Asp His
20 25 30

Leu Leu Ala Tyr Leu Asn Glu His Val Cys Val Asn Ala Lys Asp His
35 40 45

Glu Lys Gly Leu Leu Ala Arg Cys Asn Val Ser Gly Asp Ser Ile Ser
50 55 60

Ser Ile Leu Gly Gln Arg Met Lys Asn Arg Glu Arg Phe Glu Thr Arg
65 70 75 80

Leu Arg His Glu Ala Ser Ala Glu Trp Glu Pro Arg Val Glu Ala Leu
85 90 95

Asn Gln Glu Leu Ala Lys Ala Arg Val Glu Gln Gln Asp Met Met Thr
100 105 110

Gln Ser Leu Gln Tyr Leu Asn Glu Arg Asp Glu Leu Leu Gln Glu Val
115 120 125

Asp Glu Leu Lys Arg Glu Leu Thr Thr Leu Arg Ser Ala Asn Val Arg
130 135 140

Leu Asn Ala Asp Asn His Arg Met Ser Arg Ala Thr Arg Val Gly Asp
145 150 155 160

Ala Phe Val Ser Asp Val Glu Pro Leu Pro Ser Gly Ile Pro Gly Glu

	165	170	175
Ser Lys Pro Ser Met Glu Glu Leu Val Asp Asp Leu			
	180	185	
<210> 12			
<211> 251			
<212> PRT			
<213> Orthoreovirus mamífero			
<400> 12			
Ser Asn Asp Val Thr Asp Gly Ile Lys Leu Gln Leu Asp Ala Ser Arg			
1	5	10	15
Gln Cys His Glu Cys Pro Val Leu Gln Gln Lys Val Val Glu Leu Glu			
	20	25	30
Lys Gln Ile Ile Met Gln Lys Ser Ile Gln Ser Asp Pro Thr Pro Val			
	35	40	45
Ala Leu Gln Pro Leu Leu Ser Gln Leu Arg Glu Leu Ser Ser Glu Val			
	50	55	60
Thr Arg Leu Gln Met Glu Leu Ser Arg Ala Gln Ser Leu Asn Ala Gln			
	65	70	75
Leu Glu Ala Asp Val Lys Ser Ala Gln Ser Cys Ser Leu Asp Met Tyr			
	85	90	95
Leu Arg His His Thr Cys Ile Asn Gly His Ala Lys Glu Asp Glu Leu			
	100	105	110
Leu Asp Ala Val Arg Val Ala Pro Asp Val Arg Arg Glu Ile Met Glu			
	115	120	125
Lys Arg Ser Glu Val Arg Gln Gly Trp Cys Glu Arg Ile Ser Lys Glu			
	130	135	140
Ala Ala Ala Lys Cys Gln Thr Val Ile Asp Asp Leu Thr Leu Met Asn			
	145	150	155
Gly Lys Gln Ala Gln Glu Ile Thr Glu Leu Arg Asp Ser Ala Glu Lys			
	165	170	175
Tyr Glu Lys Gln Ile Ala Glu Leu Val Ser Thr Ile Thr Gln Asn Gln			
	180	185	190

Ile Thr Tyr Gln Gln Glu Leu Gln Ala Leu Val Ala Lys Asn Val Glu
195 200 205

Leu Asp Ala Leu Asn Gln Arg Gln Ala Lys Ser Leu Arg Ile Thr Pro
210 215 220

Ser Leu Leu Ser Ala Thr Pro Ile Asp Ser Val Asp Asp Val Ala Asp
225 230 235 240

Leu Ile Asp Phe Ser Val Pro Thr Asp Glu Leu
245 250

<210> 13

<211> 188

<212> PRT

<213> Secuencia Artificial

<220>

<223> variante de la región mínima de la proteína muNS de Orthoreovirus
aviar que tiene la capacidad de formar inclusiones cuando se
expresa en una célula

<400> 13

Pro Ala Val Leu Leu Ser Lys Ile Ala Asp Leu Gln Arg Ala Asn Arg
1 5 10 15

Glu Leu Ser Leu Lys Leu Val Asp Val Gln Pro Ala Arg Glu Asp His
20 25 30

Leu Leu Ala Tyr Leu Asn Glu His Val Cys Val Asn Ala Lys Asp His
35 40 45

Glu Lys Gly Leu Leu Ala Arg Cys Ser Val Ser Gly Asp Ser Ile Ser
50 55 60

Ser Ile Leu Gly Gln Arg Met Lys Asn Arg Glu Arg Phe Glu Thr Arg
65 70 75 80

Leu Arg His Glu Ala Ser Ala Glu Trp Glu Pro Arg Val Glu Ala Leu
85 90 95

Asn Gln Glu Leu Ala Lys Ala Arg Val Glu Gln Gln Asp Met Met Thr
100 105 110

Gln Ser Leu Gln Tyr Leu Asn Glu Arg Asp Glu Leu Leu Gln Glu Val
115 120 125

Asp Glu Leu Lys Arg Glu Leu Thr Thr Leu Arg Ser Ala Asn Val Arg
130 135 140

Leu Asn Ala Asp Asn His Arg Met Ser Arg Ala Thr Arg Val Gly Asp
145 150 155 160

Ala Phe Val Ser Asp Val Glu Pro Leu Pro Ser Gly Ile Pro Gly Glu
165 170 175

Ser Lys Pro Ser Met Glu Glu Leu Val Asp Asp Leu
180 185

<210> 14

<211> 251

<212> PRT

<213> Secuencia Artificial

<220>

<223> variante de la región mínima de la proteína muNS de Orthoreovirus
mamífero que tiene la capacidad de formar inclusiones cuando se
expresa en una célula

<400> 14

Ser Asn Asp Val Thr Asp Gly Ile Lys Leu Gln Leu Asp Ala Ser Arg
1 5 10 15

Gln Cys His Glu Cys Pro Val Leu Gln Gln Lys Val Val Glu Leu Glu
20 25 30

Lys Gln Ile Ile Met Gln Lys Ser Ile Gln Ser Asp Pro Thr Pro Val
35 40 45

Ala Leu Gln Pro Leu Leu Ser Gln Leu Arg Glu Leu Ser Ser Glu Val
50 55 60

Thr Arg Leu Gln Met Glu Leu Ser Arg Ala Gln Ser Leu Asn Ala Gln
65 70 75 80

Leu Glu Ala Asp Val Lys Ser Ala Gln Ser Cys Ser Leu Asp Met Tyr
85 90 95

Leu Arg His His Thr Cys Ile Ser Gly His Ala Lys Glu Asp Glu Leu
100 105 110

Leu Asp Ala Val Arg Val Ala Pro Asp Val Arg Arg Glu Ile Met Glu
115 120 125

Lys Arg Ser Glu Val Arg Gln Gly Trp Cys Glu Arg Ile Ser Lys Glu

130 135 140

Ala Ala Ala Lys Cys Gln Thr Val Ile Asp Asp Leu Thr Leu Met Asn
145 150 155 160

Gly Lys Gln Ala Gln Glu Ile Thr Glu Leu Arg Asp Ser Ala Glu Lys
165 170 175

Tyr Glu Lys Gln Ile Ala Glu Leu Val Ser Thr Ile Thr Gln Asn Gln
180 185 190

Ile Thr Tyr Gln Gln Glu Leu Gln Ala Leu Val Ala Lys Asn Val Glu
195 200 205

Leu Asp Ala Leu Asn Gln Arg Gln Ala Lys Ser Leu Arg Ile Thr Pro
210 215 220

Ser Leu Leu Ser Ala Thr Pro Ile Asp Ser Val Asp Asp Val Ala Asp
225 230 235 240

Leu Ile Asp Phe Ser Val Pro Thr Asp Glu Leu
245 250

<210> 15
<211> 251
<212> PRT
<213> Secuencia Artificial

<220>
<223> variante de la región mínima de la proteína muNS de Orthoreovirus
mamífero que tiene la capacidad de formar inclusiones cuando se
expresa en una célula

<400> 15

Ser Asn Asp Val Thr Asp Gly Ile Lys Leu Gln Leu Asp Ala Ser Arg
1 5 10 15

Gln Cys His Glu Cys Pro Val Leu Gln Gln Lys Val Val Glu Leu Glu
20 25 30

Lys Gln Ile Ile Met Gln Lys Ser Ile Gln Ser Asp Pro Thr Pro Val
35 40 45

Ala Leu Gln Pro Leu Leu Ser Gln Leu Arg Glu Leu Ser Ser Glu Val
50 55 60

Thr Arg Leu Gln Met Glu Leu Ser Arg Ala Gln Ser Leu Asn Ala Gln
65 70 75 80

Leu Glu Ala Asp Val Lys Ser Ala Gln Ser Cys Ser Leu Asp Met Tyr
85 90 95

Leu Arg His His Thr Cys Ile Asn Gly His Ala Lys Glu Asp Glu Leu
100 105 110

Leu Asp Ala Val Arg Val Ala Pro Asp Val Arg Arg Glu Ile Met Glu
115 120 125

Lys Arg Ser Glu Val Arg Gln Gly Trp Cys Glu Arg Ile Ser Lys Glu
130 135 140

Ala Ala Ala Lys Cys Gln Thr Val Ile Asp Asp Leu Thr Leu Met Ser
145 150 155 160

Gly Lys Gln Ala Gln Glu Ile Thr Glu Leu Arg Asp Ser Ala Glu Lys
165 170 175

Tyr Glu Lys Gln Ile Ala Glu Leu Val Ser Thr Ile Thr Gln Asn Gln
180 185 190

Ile Thr Tyr Gln Gln Glu Leu Gln Ala Leu Val Ala Lys Asn Val Glu
195 200 205

Leu Asp Ala Leu Asn Gln Arg Gln Ala Lys Ser Leu Arg Ile Thr Pro
210 215 220

Ser Leu Leu Ser Ala Thr Pro Ile Asp Ser Val Asp Asp Val Ala Asp
225 230 235 240

Leu Ile Asp Phe Ser Val Pro Thr Asp Glu Leu
245 250

<210> 16

<211> 251

<212> PRT

<213> Secuencia Artificial

<220>

<223> variante de la región mínima de la proteína muNS de Orthoreovirus
mamífero que tiene la capacidad de formar inclusiones cuando se
expresa en una célula

<400> 16

Ser Asn Asp Val Thr Asp Gly Ile Lys Leu Gln Leu Asp Ala Ser Arg
1 5 10 15

Gln Cys His Glu Cys Pro Val Leu Gln Gln Lys Val Val Glu Leu Glu
20 25 30

Lys Gln Ile Ile Met Gln Lys Ser Ile Gln Ser Asp Pro Thr Pro Val
35 40 45

Ala Leu Gln Pro Leu Leu Ser Gln Leu Arg Glu Leu Ser Ser Glu Val
50 55 60

Thr Arg Leu Gln Met Glu Leu Ser Arg Ala Gln Ser Leu Asn Ala Gln
65 70 75 80

Leu Glu Ala Asp Val Lys Ser Ala Gln Ser Cys Ser Leu Asp Met Tyr
85 90 95

Leu Arg His His Thr Cys Ile Ser Gly His Ala Lys Glu Asp Glu Leu
100 105 110

Leu Asp Ala Val Arg Val Ala Pro Asp Val Arg Arg Glu Ile Met Glu
115 120 125

Lys Arg Ser Glu Val Arg Gln Gly Trp Cys Glu Arg Ile Ser Lys Glu
130 135 140

Ala Ala Ala Lys Cys Gln Thr Val Ile Asp Asp Leu Thr Leu Met Ser
145 150 155 160

Gly Lys Gln Ala Gln Glu Ile Thr Glu Leu Arg Asp Ser Ala Glu Lys
165 170 175

Tyr Glu Lys Gln Ile Ala Glu Leu Val Ser Thr Ile Thr Gln Asn Gln
180 185 190

Ile Thr Tyr Gln Gln Glu Leu Gln Ala Leu Val Ala Lys Asn Val Glu
195 200 205

Leu Asp Ala Leu Asn Gln Arg Gln Ala Lys Ser Leu Arg Ile Thr Pro
210 215 220

Ser Leu Leu Ser Ala Thr Pro Ile Asp Ser Val Asp Asp Val Ala Asp
225 230 235 240

Leu Ile Asp Phe Ser Val Pro Thr Asp Glu Leu
245 250

<210> 17
<211> 5
<212> PRT
<213> Secuencia Artificial

<220>
<223> sitio de corte de enteroquinasa

<400> 17

Asp Asp Asp Asp Lys
1 5

<210> 18
<211> 5
<212> PRT
<213> Secuencia Artificial

<220>
<223> sitio de corte de factor Xa

<400> 18

Ile Glu Asp Gly Arg
1 5

<210> 19
<211> 6
<212> PRT
<213> Secuencia Artificial

<220>
<223> sitio de corte de trombina

<400> 19

Leu Val Pro Arg Gly Ser
1 5

<210> 20
<211> 7
<212> PRT
<213> Secuencia Artificial

<220>
<223> sitio de corte de proteasa TEV

<400> 20

Glu Asn Leu Tyr Phe Gln Gly
1 5

<210> 21
<211> 68
<212> PRT
<213> Orthoreovirus aviar

<400> 21

Met Pro Ser Phe Leu Leu Gly Ala Leu Lys Gln Ser Gly Gly Gln Leu
1 5 10 15

Leu Glu His Tyr Arg Cys Asp Ala Ala Asn Arg Tyr Gly Ser Pro Thr
20 25 30

Val Pro Ile Ser His Pro Pro Pro Cys Ser Lys Cys Pro Glu Leu Lys
35 40 45

Glu Gln Ile Ala Lys Leu Ser Ser Ser Pro Ile Pro Lys Val Asp Ser
50 55 60

Ser Val Gly Pro
65

<210> 22
<211> 30
<212> PRT
<213> Orthoreovirus aviar

<400> 22

Pro Ala Ala Leu Leu Ser Lys Ile Ala Asp Leu Gln Arg Ala Asn Arg
1 5 10 15

Glu Leu Ser Leu Lys Leu Val Asp Val Gln Pro Ala Arg Glu
20 25 30

<210> 23
<211> 66
<212> PRT
<213> Orthoreovirus aviar

<400> 23

Glu Asp His Leu Leu Ala Tyr Leu Asn Glu His Val Cys Val Asn Ala
1 5 10 15

Lys Asp His Glu Lys Gly Leu Leu Ala Arg Cys Asn Val Ser Gly Asp
20 25 30

Ser Ile Ser Ser Ile Leu Gly Gln Arg Met Lys Asn Arg Glu Arg Phe
35 40 45

Glu Thr Arg Leu Arg His Glu Ala Ser Ala Glu Trp Glu Pro Arg Val
50 55 60

Glu Ala

65

<210> 24
<211> 67
<212> PRT
<213> Orthoreovirus aviar

<400> 24

Arg Val Glu Ala Leu Asn Gln Glu Leu Ala Lys Ala Arg Val Glu Gln
1 5 10 15

Gln Asp Met Met Thr Gln Ser Leu Gln Tyr Leu Asn Glu Arg Asp Glu
20 25 30

Leu Leu Gln Glu Val Asp Glu Leu Lys Arg Glu Leu Thr Thr Leu Arg
35 40 45

Ser Ala Asn Val Arg Leu Asn Ala Asp Asn His Arg Met Ser Arg Ala
50 55 60

Thr Arg Val
65

<210> 25
<211> 66
<212> PRT
<213> Secuencia Artificial

<220>
<223> variante de la región mínima de la proteína muNS de un
Orthoreovirus con capacidad de incorporarse a inclusiones
formadas por una proteína que comprende muNS-Mi de un
Orthoreovirus que tiene la capacidad de formar inclusiones cuando

<220>
<221> SITE
<222> (28)..(28)
<223> cualquier aminoácido excepto Asn

<400> 25

Glu Asp His Leu Leu Ala Tyr Leu Asn Glu His Val Cys Val Asn Ala
1 5 10 15

Lys Asp His Glu Lys Gly Leu Leu Ala Arg Cys Xaa Val Ser Gly Asp
20 25 30

Ser Ile Ser Ser Ile Leu Gly Gln Arg Met Lys Asn Arg Glu Arg Phe
35 40 45

Glu Thr Arg Leu Arg His Glu Ala Ser Ala Glu Trp Glu Pro Arg Val
50 55 60

Glu Ala
65

<210> 26
<211> 66
<212> PRT
<213> Secuencia Artificial

<220>
<223> variante de la región mínima de la proteína muNS de un
Orthoreovirus con capacidad de incorporarse a inclusiones
formadas por una proteína que comprende muNS-Mi de un
Orthoreovirus que tiene la capacidad de formar inclusiones cuando

<400> 26

Glu Asp His Leu Leu Ala Tyr Leu Asn Glu His Val Cys Val Asn Ala
1 5 10 15

Lys Asp His Glu Lys Gly Leu Leu Ala Arg Cys Ser Val Ser Gly Asp
20 25 30

Ser Ile Ser Ser Ile Leu Gly Gln Arg Met Lys Asn Arg Glu Arg Phe
35 40 45

Glu Thr Arg Leu Arg His Glu Ala Ser Ala Glu Trp Glu Pro Arg Val
50 55 60

Glu Ala
65

<210> 27
<211> 31
<212> DNA
<213> Secuencia Artificial

<220>
<223> cebador Forward

<400> 27
ttggcgcgca aatgccagcc gtactgctgt c

31

<210> 28
<211> 28
<212> DNA
<213> Secuencia Artificial

<220>

<223> cebador Reverse

<400> 28
ttgcggccgc aatcacagat catccacc 28

<210> 29
<211> 43
<212> DNA
<213> Secuencia Artificial

<220>
<223> oligonucleótido para efectuar mutagénesis

<400> 29
gggcctgctc gctcggttga gcgtatctgg tgattcaatc tcc 43

<210> 30
<211> 43
<212> DNA
<213> Secuencia Artificial

<220>
<223> oligonucleótido para efectuar mutagénesis

<400> 30
ggagattgaa tcaccagata cgctacaacg agcgagcagg ccc 43

<210> 31
<211> 31
<212> DNA
<213> Secuencia Artificial

<220>
<223> cebador Forward_VSV

<400> 31
cggctagcat gaagtgcctt ttgtacttag c 31

<210> 32
<211> 34
<212> DNA
<213> Secuencia Artificial

<220>
<223> cebador Reverse_VSV

<400> 32
cccaagcttg ggagagctct tccaactact gaac 34

<210> 33
<211> 64
<212> DNA
<213> Secuencia Artificial

<220>
<223> cebador para añadir adaptador

<400> 33
gccggaattc cgaaggcaaa ccaatcccaa acccactgct gggcctggat ttgcggccgc 60
aaat 64

<210> 34
<211> 64
<212> DNA
<213> Secuencia Artificial

<220>
<223> cebador para añadir adaptador

<400> 34
atttgcggcc gcaaattccag gccacagcagt gggtttggga ttggtttgcc ttcggaattc 60
cggc 64

<210> 35
<211> 8
<212> PRT
<213> Secuencia Artificial

<220>
<223> sitio de corte de proteasa PreScission

<400> 35
Leu Glu Val Leu Phe Gln Gly Pro
1 5

<210> 36
<211> 34
<212> DNA
<213> Secuencia Artificial

<220>
<223> cebador Forward IC

<400> 36
ttgcggccgc aagaagatca cttgttggt tadc 34

<210> 37
<211> 30
<212> DNA
<213> Secuencia Artificial

<220>
<223> cebador Reverse IC

<400> 37
gcgtctagat tacgcttcca cacggggttc 30