

LISTADO DE SECUENCIAS

5 <110> Monsanto Technology LLC
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 English, Leigh H
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 Fu, Xiaoran
 Guzov, Victor M
 Howe, Arlene R
 Morgenstern, Jay P
 15 Roberts, James K
 Salvador, Sara A
 Wang, Jinling
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 10 Tyr Arg Lys Ser Gly Thr Val Asp Ser Leu Asp Glu Ile Pro Pro Gln
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 15 Asn Asn Asn Val Pro Pro Arg Gln Gly Phe Ser His Arg Leu Ser His
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 20 Val Ser Met Phe Arg Ser Gly Phe Ser Asn Ser Ser Val Ser Ile Ile
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 35 Arg Val Trp Gly Gly Thr Ser Val Ile Thr Gly Pro Gly Phe Thr Gly
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 675 680 685
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20	Val Pro Ala Asp Tyr Ala Ser Val Tyr Glu Glu Lys Ser Tyr Thr 1115 1120 1125	
25	Asp Gly Arg Arg Glu Asn Pro Cys Glu Phe Asn Arg Gly Tyr Arg 1130 1135 1140	
30	Asp Tyr Thr Pro Leu Pro Val Gly Tyr Val Thr Lys Glu Leu Glu 1145 1150 1155	
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	gagaagccac	tgctgggtga	agccttgta	cgggtgaaac	gcgccgagaa	gaagtggcgg	2820
	gacaaacggg	agaagctcca	gttgagaca	aagcgtgtgt	acacagaggc	caaggaggcc	2880
85	gtggatgcct	tgttcgtgga	cagtcagtac	gacaggctgc	aagcggacac	caacatcggg	2940
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    gcgtgttgga acgttaaagg gcacgtggat gtacaacagt cacaccacag aagtgtcttg      3180
    gtcatcccgg agtgggaggg ggaagtgagc caggccgtcc gggctctgcc tgggcgcggt      3240
10  tacatcctcc gcgtgacagc gtacaaggag ggctacggtg agggctgcgt gacgatccac      3300
    gagattgaga acaacacgga cgagcttaag ttcaagaact gcgaggagga ggaagtgtac      3360
15  ccgacagaca ccggcacctg caacgactac accgcccacc aagggaccgc cgcctgcaac      3420
    agccgcaacg cgggctatga agatgcgtac gaggttgata ccaccgcctc agtgaactac      3480
    aaaccgactt atgaggagga gacatacacg gacgtcaggg gcgacaacca ttgtgagtac      3540
20  gaccgtggct acgtgaacta tccgccgggt ccagcgggct acatgacgaa ggagctagaa      3600
    tacttccctg agacggacaa ggtgtggatt gaaatcggcg agaccgaggg caagtttatc      3660
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<220>
<223> Secuencia de aminoácidos de la variante de proteína quimérica TIC867_23.

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    20          25          30

45  Ala Arg Ile Glu Asp Ser Leu Cys Ile Ala Glu Gly Asn Asn Ile Asp
    35          40          45

50  Pro Phe Val Ser Ala Ser Thr Val Gln Thr Gly Ile Asn Ile Ala Gly
    50          55          60

55  Arg Ile Leu Gly Val Leu Gly Val Pro Phe Ala Gly Gln Ile Ala Ser
    65          70          75          80

    Phe Tyr Ser Phe Leu Val Gly Glu Leu Trp Pro Arg Gly Arg Asp Pro
    85          90          95

60  Trp Glu Ile Phe Leu Glu His Val Glu Gln Leu Ile Arg Gln Gln Val
    100          105          110

65  Thr Glu Asn Thr Arg Asp Thr Ala Leu Ala Arg Leu Gln Gly Leu Gly
    115          120          125

70  Asn Ser Phe Arg Ala Tyr Gln Gln Ser Leu Glu Asp Trp Leu Glu Asn
    130          135          140

75  Arg Asp Asp Ala Arg Thr Arg Ser Val Leu Tyr Thr Gln Tyr Ile Ala
    145          150          155          160

    Leu Glu Leu Asp Phe Leu Asn Ala Met Pro Leu Phe Ala Ile Arg Asn
    165          170          175

80  Gln Glu Val Pro Leu Leu Met Val Tyr Ala Gln Ala Ala Asn Leu His
    180          185          190

85  Leu Leu Leu Leu Arg Asp Ala Ser Leu Phe Gly Ser Glu Phe Gly Leu
    195          200          205

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Thr Ser Gln Glu Ile Gln Arg Tyr Tyr Glu Arg Gln Val Glu Lys Thr
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 5 Arg Glu Tyr Ser Asp Tyr Cys Ala Arg Trp Tyr Asn Thr Gly Leu Asn
 225 230 235 240
 10 Asn Leu Arg Gly Thr Asn Ala Glu Ser Trp Leu Arg Tyr Asn Gln Phe
 245 250 255
 15 Arg Arg Asp Leu Thr Leu Gly Val Leu Asp Leu Val Ala Leu Phe Pro
 260 265 270
 20 Ser Tyr Asp Thr Arg Val Tyr Pro Met Asn Thr Ser Ala Gln Leu Thr
 275 280 285
 25 Arg Glu Ile Tyr Thr Asp Pro Ile Gly Arg Thr Asn Ala Pro Ser Gly
 290 295 300
 30 Phe Ala Ser Thr Asn Trp Phe Asn Asn Asn Ala Pro Ser Phe Ser Ala
 305 310 315 320
 35 Ile Glu Ala Ala Val Ile Arg Pro Pro His Leu Leu Asp Phe Pro Glu
 325 330 335
 40 Gln Leu Thr Ile Phe Ser Val Leu Ser Arg Trp Ser Asn Thr Gln Tyr
 340 345 350
 45 Met Asn Tyr Trp Val Gly His Arg Leu Glu Ser Arg Thr Ile Arg Gly
 355 360 365
 50 Ser Leu Ser Thr Ser Thr His Gly Asn Thr Asn Thr Ser Ile Asn Pro
 370 375 380
 55 Val Thr Leu Gln Phe Thr Ser Arg Asp Val Tyr Arg Thr Glu Ser Phe
 385 390 395 400
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 405 410 415
 65 Ala Arg Phe Asn Trp Arg Asn Pro Leu Asn Ser Leu Arg Gly Ser Leu
 420 425 430
 70 Leu Tyr Thr Ile Gly Tyr Thr Gly Val Gly Thr Gln Leu Phe Asp Ser
 435 440 445
 75 Glu Thr Glu Leu Pro Pro Glu Thr Thr Glu Arg Pro Asn Tyr Glu Ser
 450 455 460
 80 Tyr Ser His Arg Leu Ser Asn Ile Arg Leu Ile Ser Gly Asn Thr Leu
 465 470 475 480
 85 Arg Ala Pro Val Tyr Ser Trp Thr His Arg Ser Ala Asp Arg Thr Asn
 485 490 495
 Thr Ile Ser Ser Asp Ser Ile Thr Gln Ile Pro Leu Val Lys Ala His
 500 505 510
 Thr Leu Gln Ser Gly Thr Thr Val Val Lys Gly Pro Gly Phe Thr Gly
 515 520 525
 Gly Asp Ile Leu Arg Arg Thr Ser Gly Gly Pro Phe Ala Phe Ser Asn
 530 535 540
 Val Asn Leu Asp Phe Asn Leu Ser Gln Arg Tyr Arg Ala Arg Ile Arg
 545 550 555 560

5 Tyr Ala Ser Thr Thr Asn Leu Arg Ile Tyr Val Thr Val Ala Gly Glu
 565 570 575
 Arg Ile Phe Ala Gly Gln Phe Asp Lys Thr Met Asp Ala Gly Ala Pro
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 10 Leu Thr Phe Gln Ser Phe Ser Tyr Ala Thr Ile Asn Thr Ala Phe Thr
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 15 Phe Pro Glu Arg Ser Ser Ser Leu Thr Val Gly Ala Asp Thr Phe Ser
 610 615 620
 20 Ser Gly Asn Glu Val Tyr Val Asp Arg Phe Glu Leu Ile Pro Val Thr
 625 630 635 640
 25 Ala Thr Thr Ala Thr Phe Glu Ala Glu Tyr Asp Leu Glu Arg Ala Gln
 645 650 655
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 660 665 670
 30 Thr Gly Val Thr Asp Tyr His Ile Asp Glu Val Ser Asn Leu Val Ala
 675 680 685
 35 Cys Leu Ser Asp Glu Phe Cys Leu Asp Glu Lys Arg Glu Leu Leu Glu
 690 695 700
 40 Lys Val Lys Tyr Ala Lys Arg Leu Ser Asp Glu Arg Asn Leu Leu Gln
 705 710 715 720
 45 Asp Pro Asn Phe Thr Ser Ile Asn Lys Gln Pro Asp Phe Ile Ser Thr
 725 730 735
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 740 745 750
 50 Trp Trp Gly Ser Glu Asn Ile Thr Ile Gln Glu Gly Asn Asp Val Phe
 755 760 765
 55 Lys Glu Asn Tyr Val Ile Leu Pro Gly Thr Phe Asn Glu Cys Tyr Pro
 770 775 780
 60 Thr Tyr Leu Tyr Gln Lys Ile Gly Glu Ala Glu Leu Lys Ala Tyr Thr
 785 790 795 800
 65 Arg Tyr Gln Leu Ser Gly Tyr Ile Glu Asp Ser Gln Asp Leu Glu Ile
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 Tyr Leu Ile Arg Tyr Asn Ala Lys His Glu Thr Leu Asp Val Pro Gly
 820 825 830
 70 Thr Glu Ser Val Trp Pro Leu Ser Val Glu Ser Pro Ile Gly Arg Cys
 835 840 845
 75 Gly Glu Pro Asn Arg Cys Ala Pro His Phe Glu Trp Asn Pro Asp Leu
 850 855 860
 80 Asp Cys Ser Cys Arg Asp Gly Glu Lys Cys Ala His His Ser His His
 865 870 875 880
 85 Phe Ser Leu Asp Ile Asp Val Gly Cys Ile Asp Leu His Glu Asn Leu
 885 890 895

Gly Val Trp Val Val Phe Lys Ile Lys Thr Gln Glu Gly His Ala Arg
 900 905 910
 5 Leu Gly Asn Leu Glu Phe Ile Glu Glu Lys Pro Leu Leu Gly Glu Ala
 915 920 925
 10 Leu Ser Arg Val Lys Arg Ala Glu Lys Lys Trp Arg Asp Lys Arg Glu
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 15 Lys Leu Gln Leu Glu Thr Lys Arg Val Tyr Thr Glu Ala Lys Glu Ala
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 30 Glu Ile Phe Glu Glu Leu Glu Gly Arg Ile Ile Thr Ala Ile Ser
 1010 1015 1020
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 40 Ser His His Arg Ser Val Leu Val Ile Pro Glu Trp Glu Ala Glu
 1055 1060 1065
 45 Val Ser Gln Ala Val Arg Val Cys Pro Gly Arg Gly Tyr Ile Leu
 1070 1075 1080
 50 Arg Val Thr Ala Tyr Lys Glu Gly Tyr Gly Glu Gly Cys Val Thr
 1085 1090 1095
 55 Ile His Glu Ile Glu Asn Asn Thr Asp Glu Leu Lys Phe Lys Asn
 1100 1105 1110
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 1115 1120 1125
 60 Asp Tyr Thr Ala His Gln Gly Thr Ala Ala Cys Asn Ser Arg Asn
 1130 1135 1140
 65 Ala Gly Tyr Glu Asp Ala Tyr Glu Val Asp Thr Thr Ala Ser Val
 1145 1150 1155
 70 Asn Tyr Lys Pro Thr Tyr Glu Glu Glu Thr Tyr Thr Asp Val Arg
 1160 1165 1170
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70	Ala Arg Ile Glu Asp Ser Leu Cys Ile Ala Glu Gly Asn Asn Ile Asp	
	35 40 45	
	Pro Phe Val Ser Ala Ser Thr Val Gln Thr Gly Ile Asn Ile Ala Gly	
	50 55 60	
75	Arg Ile Leu Gly Val Leu Gly Val Pro Phe Ala Gly Gln Ile Ala Ser	
	65 70 75 80	
80	Phe Tyr Ser Phe Leu Val Gly Glu Leu Trp Pro Arg Gly Arg Asp Pro	
	85 90 95	
85	Trp Glu Ile Phe Leu Glu His Val Glu Gln Leu Ile Arg Gln Gln Val	
	100 105 110	

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5	Asn	Ser	Phe	Arg	Ala	Tyr	Gln	Gln	Ser	Leu	Glu	Asp	Trp	Leu	Glu	Asn
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10	Arg	Asp	Asp	Ala	Arg	Thr	Arg	Ser	Val	Leu	Tyr	Thr	Gln	Tyr	Ile	Ala
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15	Leu	Glu	Leu	Asp	Phe	Leu	Asn	Ala	Met	Pro	Leu	Phe	Ala	Ile	Arg	Asn
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20	Gln	Glu	Val	Pro	Leu	Leu	Met	Val	Tyr	Ala	Gln	Ala	Ala	Asn	Leu	His
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25	Leu	Leu	Leu	Leu	Arg	Asp	Ala	Ser	Leu	Phe	Gly	Ser	Glu	Phe	Gly	Leu
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30	Thr	Ser	Gln	Glu	Ile	Gln	Arg	Tyr	Tyr	Glu	Arg	Gln	Val	Glu	Lys	Thr
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35	Arg	Glu	Tyr	Ser	Asp	Tyr	Cys	Ala	Arg	Trp	Tyr	Asn	Thr	Gly	Leu	Asn
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40	Asn	Leu	Arg	Gly	Thr	Asn	Ala	Glu	Ser	Trp	Leu	Arg	Tyr	Asn	Gln	Phe
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50	Ser	Tyr	Asp	Thr	Arg	Val	Tyr	Pro	Met	Asn	Thr	Ser	Ala	Gln	Leu	Thr
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55	Arg	Glu	Ile	Tyr	Thr	Asp	Pro	Ile	Gly	Arg	Thr	Asn	Ala	Pro	Ser	Gly
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60	Phe	Ala	Ser	Thr	Asn	Trp	Phe	Asn	Asn	Asn	Ala	Pro	Ser	Phe	Ser	Ala
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65	Ile	Glu	Ala	Ala	Val	Ile	Arg	Pro	Pro	His	Leu	Leu	Asp	Phe	Pro	Glu
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85	Val	Thr	Leu	Gln	Phe	Thr	Ser	Arg	Asp	Val	Tyr	Arg	Thr	Glu	Ser	Phe
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90	Ala	Gly	Ile	Asn	Ile	Leu	Leu	Thr	Thr	Pro	Val	Asn	Gly	Val	Pro	Trp
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95	Ala	Arg	Phe	Asn	Trp	Arg	Asn	Pro	Leu	Asn	Ser	Leu	Arg	Gly	Ser	Leu
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100	Leu	Tyr	Thr	Ile	Gly	Tyr	Thr	Gly	Val	Gly	Thr	Gln	Leu	Phe	Asp	Ser
			435					440					445			
105	Glu	Thr	Glu	Leu	Pro	Pro	Glu	Thr	Thr	Glu	Arg	Pro	Asn	Tyr	Glu	Ser
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Tyr Ser His Arg Leu Ser Asn Ile Arg Leu Ile Ser Gly Asn Thr Leu
 465 470 475 480
 5 Arg Ala Pro Val Tyr Ser Trp Thr His Arg Ser Ala Asp Arg Thr Asn
 485 490 495
 10 Thr Ile Ser Ser Asp Ser Ile Thr Gln Ile Pro Leu Val Lys Ala His
 500 505 510
 15 Thr Leu Gln Ser Gly Thr Thr Val Val Lys Gly Pro Gly Phe Thr Gly
 515 520 525
 20 Gly Asp Ile Leu Arg Arg Thr Ser Gly Gly Pro Phe Ala Phe Ser Asn
 530 535 540
 25 Val Asn Leu Asp Phe Asn Leu Ser Gln Arg Tyr Arg Ala Arg Ile Arg
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 30 Tyr Ala Ser Thr Thr Asn Leu Arg Ile Tyr Val Thr Val Ala Gly Glu
 565 570 575
 35 Arg Ile Phe Ala Gly Gln Phe Asp Lys Thr Met Asp Ala Gly Ala Pro
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 40 Leu Thr Phe Gln Ser Phe Ser Tyr Ala Thr Ile Asn Thr Ala Phe Thr
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 45 Phe Pro Glu Arg Ser Ser Ser Leu Thr Val Gly Ala Asp Thr Phe Ser
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 55 Ala Thr Thr Ala Thr Phe Glu Ala Glu Ser Asp Leu Glu Arg Ala Arg
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5 Ser Pro Trp Pro Ser Ser Gly Val Tyr Pro Ser Gly Arg Cys Gly Glu
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 15 Leu Asp Ile Asp Val Gly Cys Thr Asp Leu Asn Glu Asp Leu Gly Val
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 20 Trp Val Ile Phe Lys Ile Lys Thr Gln Asp Gly His Ala Lys Leu Gly
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 965 970 975
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 Phe Glu Glu Leu Glu Gly His Ile Phe Lys Ala Tyr Ser Leu Tyr Asp
 995 1000 1005
 50 Ala Arg Asn Val Ile Lys Asn Gly Asp Phe Asn Asn Gly Leu Ser
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 Tyr Asn Gln Gly Leu Glu Asn Leu Arg Gly Thr Asn Thr Arg Gln Trp
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65