SEQUENCE LISTING

<110> MEDINET Co., Ltd.

<120> Method for solibilizing unsoluble protein and/or peptide

<130> W5623-000000

<150> JP 2009-112341
<151> 2009-05-01

<160> 5

<170> PatentIn version 3.1

<210> 1
<211> 76
<212> PRT
<213> Homo sapiens

<400> 1

Met Gln Ile Phe Val Lys Thr Leu Thr Gly Lys Thr Ile Thr Leu Glu
1 5 10 15

Val Glu Pro Ser Asp Thr Ile Glu Asn Val Lys Ala Lys Ile Gln Asp
20 25 30

Lys Glu Gly Ile Pro Pro Asp Gln Gln Arg Leu Ile Phe Ala Gly Lys
35 40 45

Gln Leu Glu Asp Gly Arg Thr Leu Ser Asp Tyr Asn Ile Gln Lys Glu
50 55 60

Ser Thr Leu His Leu Val Leu Arg Leu Arg Gly Ala
65 70 75

<210> 2
<211> 519
<212> PRT
<213> Artificial

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<223> TRP-2 fusion protein with ubiquitin

<400> 2

Met Ser Gly Ser His His His His His His Ser Ser Gly Ile Glu Gly
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Arg Val Asp Met Gln Ile Phe Val Lys Thr Leu Thr Gly Lys Thr Ile
20 25 30

Thr Leu Glu Val Glu Pro Ser Asp Thr Ile Glu Asn Val Lys Ala Lys
35 40 45

Ile Gln Asp Lys Glu Gly Ile Pro Pro Asp Gln Gln Arg Leu Ile Phe
50 55 60

Ala Gly Lys Gln Leu Glu Asp Gly Arg Thr Leu Ser Asp Tyr Asn Ile
65 70 75 80

Gln Lys Glu Ser Thr Leu His Leu Val Leu Arg Leu Arg Gly Ala Gly
85 90 95

Thr Arg Ala Gly Arg Glu Gly Arg Gly Gln Cys Ala Glu Val Gln Thr

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          100                 105                 110

Asp Thr Arg Pro Trp Ser Gly Pro Tyr Ile Leu Arg Asn Gln Asp Asp
        115                 120                 125

Arg Glu Gln Trp Pro Arg Lys Phe Phe Asn Arg Thr Cys Lys Cys Thr
    130                 135                 140

Gly Asn Phe Ala Gly Tyr Asn Cys Gly Gly Cys Lys Phe Gly Trp Thr
145                 150                 155                 160

Gly Pro Asp Cys Asn Arg Lys Lys Pro Ala Ile Leu Arg Arg Asn Ile
                165                 170                 175

His Ser Leu Thr Ala Gln Glu Arg Glu Gln Phe Leu Gly Ala Leu Asp
            180                 185                 190

Leu Ala Lys Lys Ser Ile His Pro Asp Tyr Val Ile Thr Thr Gln His
        195                 200                 205

Trp Leu Gly Leu Leu Gly Pro Asn Gly Thr Gln Pro Gln Ile Ala Asn
    210                 215                 220

Cys Ser Val Tyr Asp Phe Phe Val Trp Leu His Tyr Tyr Ser Val Arg
225                 230                 235                 240

Asp Thr Leu Leu Gly Pro Gly Arg Pro Tyr Lys Ala Ile Asp Phe Ser
                245                 250                 255

His Gln Gly Pro Ala Phe Val Thr Trp His Arg Tyr His Leu Leu Trp
            260                 265                 270

Leu Glu Arg Glu Leu Gln Arg Leu Thr Gly Asn Glu Ser Phe Ala Leu
        275                 280                 285

Pro Tyr Trp Asn Phe Ala Thr Gly Lys Asn Glu Cys Asp Val Cys Thr
    290                 295                 300

Asp Asp Trp Leu Gly Ala Ala Arg Gln Asp Asp Pro Thr Leu Ile Ser
305                 310                 315                 320

Arg Asn Ser Arg Phe Ser Thr Trp Glu Ile Val Cys Asp Ser Leu Asp
                325                 330                 335

Asp Tyr Asn Arg Arg Val Thr Leu Cys Asn Gly Thr Tyr Glu Gly Leu
            340                 345                 350

Leu Arg Arg Asn Lys Val Gly Arg Asn Asn Glu Lys Leu Pro Thr Leu
        355                 360                 365

Lys Asn Val Gln Asp Cys Leu Ser Leu Gln Lys Phe Asp Ser Pro Pro
    370                 375                 380

Phe Phe Gln Asn Ser Thr Phe Ser Phe Arg Asn Ala Leu Glu Gly Phe
385                 390                 395                 400

Asp Lys Ala Asp Gly Thr Leu Asp Ser Gln Val Met Asn Leu His Asn
                405                 410                 415
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Leu Ala His Ser Phe Leu Asn Gly Thr Asn Ala Leu Pro His Ser Ala
420 425 430

Ala Asn Asp Pro Val Phe Val Val Leu His Ser Phe Thr Asp Ala Ile
435 440 445

Phe Asp Glu Trp Leu Lys Arg Asn Asn Pro Ser Thr Asp Ala Trp Pro
450 455 460

Gln Glu Leu Ala Pro Ile Gly His Asn Arg Met Tyr Asn Met Val Pro
465 470 475 480

Phe Phe Pro Pro Val Thr Asn Glu Glu Leu Phe Leu Thr Ala Glu Gln
485 490 495

Leu Gly Tyr Asn Tyr Ala Val Asp Leu Ser Glu Glu Glu Ala Pro Val
500 505 510

Trp Ser Thr Thr Leu Ser Phe
515

<210> 3
<211> 438
<212> PRT
<213> Mus musculus

<400> 3

Met Ser Gly Ser His His His His His His Ser Ser Gly Ile Glu Gly
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Arg Val Asp Arg Glu Gly Arg Gly Gln Cys Ala Glu Val Gln Thr Asp
20 25 30

Thr Arg Pro Trp Ser Gly Pro Tyr Ile Leu Arg Asn Gln Asp Asp Arg
35 40 45

Glu Gln Trp Pro Arg Lys Phe Phe Asn Arg Thr Cys Lys Cys Thr Gly
50 55 60

Asn Phe Ala Gly Tyr Asn Cys Gly Gly Cys Lys Phe Gly Trp Thr Gly
65 70 75 80

Pro Asp Cys Asn Arg Lys Lys Pro Ala Ile Leu Arg Arg Asn Ile His
85 90 95

Ser Leu Thr Ala Gln Glu Arg Glu Gln Phe Leu Gly Ala Leu Asp Leu
100 105 110

Ala Lys Lys Ser Ile His Pro Asp Tyr Val Ile Thr Thr Gln His Trp
115 120 125

Leu Gly Leu Leu Gly Pro Asn Gly Thr Gln Pro Gln Ile Ala Asn Cys
130 135 140

Ser Val Tyr Asp Phe Phe Val Trp Leu His Tyr Tyr Ser Val Arg Asp
145 150 155 160

Thr Leu Leu Gly Pro Gly Arg Pro Tyr Lys Ala Ile Asp Phe Ser His
165 170 175

Gln Gly Pro Ala Phe Val Thr Trp His Arg Tyr His Leu Leu Trp Leu
180 185 190

Glu Arg Glu Leu Gln Arg Leu Thr Gly Asn Glu Ser Phe Ala Leu Pro
195 200 205

Tyr Trp Asn Phe Ala Thr Gly Lys Asn Glu Cys Asp Val Cys Thr Asp
210 215 220

Asp Trp Leu Gly Ala Ala Arg Gln Asp Asp Pro Thr Leu Ile Ser Arg
225 230 235 240

Asn Ser Arg Phe Ser Thr Trp Glu Ile Val Cys Asp Ser Leu Asp Asp
245 250 255

Tyr Asn Arg Arg Val Thr Leu Cys Asn Gly Thr Tyr Glu Gly Leu Leu
260 265 270

Arg Arg Asn Lys Val Gly Arg Asn Asn Glu Lys Leu Pro Thr Leu Lys
275 280 285

Asn Val Gln Asp Cys Leu Ser Leu Gln Lys Phe Asp Ser Pro Pro Phe
290 295 300

Phe Gln Asn Ser Thr Phe Ser Phe Arg Asn Ala Leu Glu Gly Phe Asp
305 310 315 320

Lys Ala Asp Gly Thr Leu Asp Ser Gln Val Met Asn Leu His Asn Leu
325 330 335

Ala His Ser Phe Leu Asn Gly Thr Asn Ala Leu Pro His Ser Ala Ala
340 345 350

Asn Asp Pro Val Phe Val Val Leu His Ser Phe Thr Asp Ala Ile Phe
355 360 365

Asp Glu Trp Leu Lys Arg Asn Asn Pro Ser Thr Asp Ala Trp Pro Gln
370 375 380

Glu Leu Ala Pro Ile Gly His Asn Arg Met Tyr Asn Met Val Pro Phe
385 390 395 400

Phe Pro Pro Val Thr Asn Glu Glu Leu Phe Leu Thr Ala Glu Gln Leu
405 410 415

Gly Tyr Asn Tyr Ala Val Asp Leu Ser Glu Glu Glu Ala Pro Val Trp
420 425 430

Ser Thr Thr Leu Ser Phe
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<210> 4
<211> 9
<212> PRT
<213> Mus musculus

<400> 4

Ser Val Tyr Asp Phe Phe Val Trp Leu
1 5

<210> 5
<211> 8
<212> PRT
<213> Gallus gallus

<400> 5

Ser Ile Ile Asn Phe Glu Lys Leu
1 5