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<120> Cornulin (CRNN) Variants And Uses Thereof

<130> 189238.00402 (3052) (10385WO01)

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tttgccgatg tgattgtgaa accccacgat ccagcaactg tggatgaggt cctgcgtctg 180

ctggatgaag accacacagg gacttgtgga attcaaggaa ttcctggtct tagtgtttaa 240

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<223> Xaa can be Ala or Val

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<223> Xaa can be Gln or His

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<222> (480)..(480)
<223> Xaa can be Gly or Ser

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Met Pro Gln Leu Leu Gln Asn Ile Asn Gly Ile Ile Glu Ala Phe Arg
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Arg Tyr Ala Arg Thr Glu Gly Asn Cys Thr Xaa Leu Thr Arg Gly Glu
            20                  25                  30

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

His Asp Pro Ala Thr Val Asp Glu Val Leu Arg Leu Leu Asp Glu Asp
    50                  55                  60

His Thr Gly Thr Val Glu Phe Lys Glu Phe Leu Val Leu Val Phe Lys
65                  70                  75                  80

Val Ala Gln Ala Cys Phe Lys Thr Leu Ser Glu Ser Ala Glu Gly Ala
                85                  90                  95

Cys Gly Ser Gln Glu Ser Gly Ser Leu His Ser Gly Ala Ser Gln Glu
            100                 105                 110

Leu Gly Glu Gly Gln Arg Ser Gly Thr Glu Val Gly Arg Ala Gly Lys
        115                 120                 125

Gly Gln His Tyr Glu Gly Ser Ser His Arg Gln Ser Gln Gln Gly Ser
    130                 135                 140

Arg Gly Gln Asn Arg Pro Gly Val Gln Thr Gln Gly Gln Ala Thr Gly
145                 150                 155                 160

Ser Ala Trp Val Ser Ser Tyr Asp Arg Gln Ala Glu Ser Gln Ser Gln
                165                 170                 175

Glu Arg Ile Ser Pro Gln Ile Gln Leu Ser Gly Gln Thr Glu Gln Thr
            180                 185                 190

Gln Lys Ala Gly Glu Gly Lys Arg Asn Gln Thr Thr Glu Met Arg Pro
        195                 200                 205

Glu Arg Gln Pro Gln Thr Arg Glu Gln Asp Arg Ala His Gln Thr Gly
    210                 215                 220

Glu Thr Val Thr Gly Ser Gly Thr Gln Thr Gln Ala Gly Ala Thr Gln
225                 230                 235                 240
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Thr Val Glu Gln Asp Ser Ser His Gln Thr Gly Arg Thr Ser Lys Gln
                245                 250                 255

Thr Gln Glu Ala Thr Asn Asp Gln Asn Arg Gly Thr Glu Thr His Gly
            260                 265                 270

Gln Gly Arg Ser Gln Thr Ser Gln Ala Val Thr Gly Gly His Ala Gln
        275                 280                 285

Ile Gln Ala Gly Thr His Thr Gln Thr Pro Thr Gln Thr Val Glu Gln
    290                 295                 300

Asp Ser Ser His Gln Thr Gly Ser Thr Ser Thr Gln Thr Gln Glu Ser
305                 310                 315                 320

Thr Asn Gly Gln Asn Arg Gly Thr Glu Ile His Gly Gln Gly Arg Ser
                325                 330                 335

Gln Thr Ser Gln Ala Val Thr Gly Gly His Thr Gln Ile Gln Ala Gly
            340                 345                 350

Ser His Thr Glu Thr Val Glu Gln Asp Arg Ser Gln Thr Val Ser His
        355                 360                 365

Gly Gly Ala Arg Glu Xaa Gly Gln Thr Gln Thr Gln Pro Gly Ser Gly
    370                 375                 380

Gln Arg Trp Met Gln Val Ser Asn Pro Glu Ala Gly Glu Thr Val Pro
385                 390                 395                 400

Gly Gly Gln Ala Gln Thr Gly Ala Ser Thr Glu Ser Gly Arg Gln Glu
                405                 410                 415

Trp Ser Ser Thr His Pro Arg Arg Cys Val Thr Glu Gly Gln Gly Asp
            420                 425                 430

Arg Gln Pro Thr Val Val Gly Glu Glu Trp Val Asp Asp His Ser Arg
        435                 440                 445

Glu Thr Val Ile Leu Arg Leu Asp Gln Gly Asn Leu His Thr Ser Val
    450                 455                 460

Ser Ser Ala Gln Gly Gln Asp Ala Ala Gln Ser Glu Glu Lys Arg Xaa
465                 470                 475                 480

Ile Thr Ala Arg Glu Leu Tyr Ser Tyr Leu Arg Ser Thr Lys Pro
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Met Pro Gln Leu Leu Gln Asn Ile Asn Gly Ile Ile Glu Ala Phe Arg
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Arg Tyr Ala Arg Thr Glu Gly Asn Cys Thr Xaa Leu Thr Arg Gly Glu
20 25 30

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

His Asp Pro Ala Thr Val Asp Glu Val Leu Arg Leu Leu Asp Glu Asp
50 55 60

His Thr Gly Thr Cys Gly Ile Gln Gly Ile Pro Gly Leu Ser Val
65 70 75

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Val Glu Phe Lys Glu Phe Leu Val Leu Val Phe
1 5 10

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Cys Gly Ile Gln Gly Ile Pro Gly Leu Ser Val

1 5 10