

SEQUENCE LISTING

<110> BIOGAIA AB

<120> SELECTION AND USE OF MELATONIN SUPPORTING BACTERIA TO REDUCE INFANTILE COLIC

<130> 69.139115/02

<150> GB 1905470.9

<151> 2019-04-17

<150> GB 1812079.0

<151> 2018-07-24

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<170> PatentIn version 3.5

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 35 40 45

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

Ile Asn Asp Leu His Gly Gly Leu Glu Thr Thr Gly Ser Ala Thr Ile
85 90 95

Gly Asp Lys Thr Tyr Ser Asn Ala Gly Thr Val Ala Arg Leu Ala Gly
100 105 110

Asn Leu Asp Ala Ala Glu Glu Ser Phe Lys Asn Ala Asn Pro Thr Gly
115 120 125

Ser Ser Ile Arg Val Glu Ala Gly Asp Met Val Gly Ala Ser Pro Ala
130 135 140

Asn Ser Ala Leu Leu Gln Asp Glu Ser Thr Met His Ala Leu Asp Ala
145 150 155 160

Met His Phe Glu Ile Gly Thr Leu Gly Asn His Glu Phe Asp Glu Gly
165 170 175

Leu Ala Glu Tyr Met Arg Ile Val Asn Gly Gly Glu Pro Thr Lys Gln
180 185 190

Tyr Asn Glu Ala Glu Met Ala Tyr Pro His Val Lys Thr Gly Ile Asn
195 200 205

Ile Ile Thr Ala Asn Val Val Asn Lys Ser Asp Gly Gln Ile Pro Phe
210 215 220

Gly Met Gln Pro Tyr Leu Ile Lys Glu Ile His Thr Ser Asp Gly Lys
225 230 235 240

Val Ala Arg Ile Gly Phe Ile Gly Ile Glu Thr Thr Ser Leu Pro Ile
245 250 255

Leu Thr Leu Tyr Asp Asn Tyr Lys Asp Tyr Asp Val Leu Asp Glu Ala
260 265 270

Glu Thr Ile Ala Lys Tyr Asp Gln Ile Leu Arg Lys Lys Gly Val Asn
275 280 285

Ala Ile Val Val Leu Ala His Thr Gly Val Ser Thr Asp Lys Asp Gly
290 295 300

Ser Thr Lys Gly Asn Ala Val Asp Ile Ile Lys Lys Leu Tyr Gln Ile
305 310 315 320

Asp Pro Asp Asn Ser Val Asp Leu Tyr Ile Ala Gly His Ser His Gln
 325 330 335

Tyr Ala Asn Ala Thr Val Gly Ser Val Lys Leu Val Gln Ala Ile Tyr
 340 345 350

Thr Gly Lys Ala Tyr Asp Asp Ile Ile Gly Tyr Ile Asp Pro Thr Thr
 355 360 365

Asn Asp Phe Ala Pro Asn Ser Leu Val Ser His Val Phe Pro Val Leu
 370 375 380

Ser Glu Lys Asp Ala Pro Asn Ile Lys Thr Asp Ala Asn Val Thr Ala
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Ile Val Glu Asp Ala Asn Asn Arg Val Ala Pro Ile Ile Asn Lys Lys
 405 410 415

Ile Gly Glu Ala Ala Thr Thr Gly Asp Ile Leu Gly Arg Leu His Asn
 420 425 430

Thr Pro Thr Arg Glu Asn Ala Val Gly Glu Leu Val Val Asp Gly Gln
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Leu Tyr Ala Ala His Lys Val Gly Leu Pro Ala Asp Phe Ala Met Thr
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Asn Thr Gly Gly Val Arg Ala Asp Leu His Val Asn Pro Asp Arg Ser
465 470 475 480

Ile Thr Trp Gly Ser Ala Gln Ala Val Gln Pro Phe Gly Asn Ile Leu
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Arg Val Val Glu Met Thr Gly Ala Gln Ile Val Glu Ala Leu Asn Gln
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Gln Tyr Asp Glu Asp Gln Ala Tyr Tyr Leu Gln Ile Ser Gly Leu His

515 520 525

Tyr Thr Tyr Thr Asp Gln Asn Asp Pro Asn Gln Pro Tyr Lys Val Val
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545 550 555 560

Asn Val Val Ile Asn Asp Phe Leu Ala Gly Gly Gly Asp Gly Phe Ser
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580 585 590

Ala Phe Ile Asp Tyr Ile Thr Asp Met Thr Asn Asp Gly Lys Pro Ile
595 600 605

Thr Ala Pro Thr Met Asn Arg Lys Ile Tyr Leu Thr Ala Glu Gln Val
610 615 620

Ala Lys Ala Asp Ser Asp Ser Gln Leu Gln Thr Gly Thr Asn Gln Asn
625 630 635 640

Thr Gln Asn Asp Ala Asn Ser Gln Thr Glu Gly Asn Gln Leu Gln Glu
645 650 655

Val Pro Ser Gln Pro Val Ser Pro Thr Val Thr Leu Pro Thr Thr Ala
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Gly Gln Pro Ala Glu Thr Val Thr Leu His Ala Gln Ser Lys Gln Gln
675 680 685

Thr Val Ala Ala Asn Asn Gln Leu Ile Asn Leu Thr Pro Thr Ser Ile
690 695 700

Asn Gly Gln Lys Gln Lys Ala Ala Asp Gln Gln Ala Ala Leu Pro Gln
705 710 715 720

Thr Ser Asn Asp Glu Asp Leu Ala Leu Leu Leu Leu Gly Ser Ser Leu
725 730 735

Met Ala Ala Thr Gly Leu Thr Ile Ile Asp Arg Lys Arg Lys His Ala
740 745 750