

SEQUENCE LISTING

<110> IO Biotech ApS

<120> ARGINASE1 POLYPEPTIDES

<130> N414498WO

<150> GB1815549.9

<151> 2018-09-24

<160> 13

<170> PatentIn version 3.5

<210> 1

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide fragment of human Arginase 1 (ArgLong2)

<400> 1

Ile	Ser	Ala	Lys	Asp	Ile	Val	Tyr	Ile	Gly	Leu	Arg	Asp	Val	Asp	Pro
1				5					10					15	

Gly	Glu	His	Tyr	Ile	Leu	Lys	Thr	Leu	Gly	Ile	Lys	Tyr	Phe	Ser	Met
			20					25					30		

Thr	Glu	Val	Asp	Arg	Leu
			35		

<210> 2

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide fragment of murine Arginase 1 (mArgLong2)

<400> 2

Ile	Ser	Ala	Lys	Asp	Ile	Val	Tyr	Ile	Gly	Leu	Arg	Asp	Val	Asp	Pro
1				5					10					15	

Gly Glu His Tyr Ile Ile Lys Thr Leu Gly Ile Lys Tyr Phe Ser Met
20 25 30

Thr Glu Val Asp Lys Leu
35

<210> 3
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide fragment of human Arginase 1 (ArgLong3)

<400> 3

Ile Ser Ala Lys Asp Ile Val Tyr Ile Gly Leu Arg Asp Val Asp Pro
1 5 10 15

Gly Glu His Tyr Ile Leu Lys Thr Leu Gly Ile Lys Tyr Phe Ser Met
20 25 30

<210> 4
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide fragment of murine Arginase 1 (mArgLong3)

<400> 4

Ile Ser Ala Lys Asp Ile Val Tyr Ile Gly Leu Arg Asp Val Asp Pro
1 5 10 15

Gly Glu His Tyr Ile Ile Lys Thr Leu Gly Ile Lys Tyr Phe Ser Met
20 25 30

<210> 5
<211> 42
<212> PRT
<213> Artificial Sequence

<220>

<223> Peptide fragment of human Arginase 1 (ArgLong)

<400> 5

Ile Ser Ala Lys Asp Ile Val Tyr Ile Gly Leu Arg Asp Val Asp Pro
1 5 10 15

Gly Glu His Tyr Ile Leu Lys Thr Leu Gly Ile Lys Tyr Phe Ser Met
20 25 30

Thr Glu Val Asp Arg Leu Gly Ile Gly Lys
35 40

<210> 6

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide fragment of murine Arginase 1 (mArgLong)

<400> 6

Ile Ser Ala Lys Asp Ile Val Tyr Ile Gly Leu Arg Asp Val Asp Pro
1 5 10 15

Gly Glu His Tyr Ile Ile Lys Thr Leu Gly Ile Lys Tyr Phe Ser Met
20 25 30

Thr Glu Val Asp Lys Leu Gly Ile Gly Lys
35 40

<210> 7

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide fragment of human Arginase 1 (Arg1-18)

<400> 7

Ala Lys Asp Ile Val Tyr Ile Gly Leu Arg Asp Val Asp Pro Gly Glu

1 5 10 15

His Tyr Ile Leu
20

<210> 8
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide fragment of human Arginase 1 (Arg1-19)

<400> 8

Asp Val Asp Pro Gly Glu His Tyr Ile Leu Lys Thr Leu Gly Ile Lys
1 5 10 15

Tyr Phe Ser Met
20

<210> 9
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide fragment of human Arginase 1 (Arg1-20)

<400> 9

Lys Thr Leu Gly Ile Lys Tyr Phe Ser Met Thr Glu Val Asp Arg Leu
1 5 10 15

Gly Ile Gly Lys
20

<210> 10
<211> 322
<212> PRT
<213> Homo sapiens

<400> 10

Met Ser Ala Lys Ser Arg Thr Ile Gly Ile Ile Gly Ala Pro Phe Ser
1 5 10 15

Lys Gly Gln Pro Arg Gly Gly Val Glu Glu Gly Pro Thr Val Leu Arg
20 25 30

Lys Ala Gly Leu Leu Glu Lys Leu Lys Glu Gln Glu Cys Asp Val Lys
35 40 45

Asp Tyr Gly Asp Leu Pro Phe Ala Asp Ile Pro Asn Asp Ser Pro Phe
50 55 60

Gln Ile Val Lys Asn Pro Arg Ser Val Gly Lys Ala Ser Glu Gln Leu
65 70 75 80

Ala Gly Lys Val Ala Glu Val Lys Lys Asn Gly Arg Ile Ser Leu Val
85 90 95

Leu Gly Gly Asp His Ser Leu Ala Ile Gly Ser Ile Ser Gly His Ala
100 105 110

Arg Val His Pro Asp Leu Gly Val Ile Trp Val Asp Ala His Thr Asp
115 120 125

Ile Asn Thr Pro Leu Thr Thr Thr Ser Gly Asn Leu His Gly Gln Pro
130 135 140

Val Ser Phe Leu Leu Lys Glu Leu Lys Gly Lys Ile Pro Asp Val Pro
145 150 155 160

Gly Phe Ser Trp Val Thr Pro Cys Ile Ser Ala Lys Asp Ile Val Tyr
165 170 175

Ile Gly Leu Arg Asp Val Asp Pro Gly Glu His Tyr Ile Leu Lys Thr
180 185 190

Leu Gly Ile Lys Tyr Phe Ser Met Thr Glu Val Asp Arg Leu Gly Ile
195 200 205

Gly Lys Val Met Glu Glu Thr Leu Ser Tyr Leu Leu Gly Arg Lys Lys
210 215 220

Arg Pro Ile His Leu Ser Phe Asp Val Asp Gly Leu Asp Pro Ser Phe
225 230 235 240

Thr Pro Ala Thr Gly Thr Pro Val Val Gly Gly Leu Thr Tyr Arg Glu
245 250 255

Gly Leu Tyr Ile Thr Glu Glu Ile Tyr Lys Thr Gly Leu Leu Ser Gly
260 265 270

Leu Asp Ile Met Glu Val Asn Pro Ser Leu Gly Lys Thr Pro Glu Glu
275 280 285

Val Thr Arg Thr Val Asn Thr Ala Val Ala Ile Thr Leu Ala Cys Phe
290 295 300

Gly Leu Ala Arg Glu Gly Asn His Lys Pro Ile Asp Tyr Leu Asn Pro
305 310 315 320

Pro Lys

<210> 11
<211> 323
<212> PRT
<213> Mus musculus

<400> 11

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

Lys Gly Gln Pro Arg Gly Gly Val Glu Lys Gly Pro Ala Ala Leu Arg
20 25 30

Lys Ala Gly Leu Leu Glu Lys Leu Lys Glu Thr Glu Tyr Asp Val Arg

35

40

45

Asp His Gly Asp Leu Ala Phe Val Asp Val Pro Asn Asp Ser Ser Phe
 50 55 60

Gln Ile Val Lys Asn Pro Arg Ser Val Gly Lys Ala Asn Glu Glu Leu
 65 70 75 80

Ala Gly Val Val Ala Glu Val Gln Lys Asn Gly Arg Val Ser Val Val
 85 90 95

Leu Gly Gly Asp His Ser Leu Ala Val Gly Ser Ile Ser Gly His Ala
 100 105 110

Arg Val His Pro Asp Leu Cys Val Ile Trp Val Asp Ala His Thr Asp
 115 120 125

Ile Asn Thr Pro Leu Thr Thr Ser Ser Gly Asn Leu His Gly Gln Pro
 130 135 140

Val Ser Phe Leu Leu Lys Glu Leu Lys Gly Lys Phe Pro Asp Val Pro
 145 150 155 160

Gly Phe Ser Trp Val Thr Pro Cys Ile Ser Ala Lys Asp Ile Val Tyr
 165 170 175

Ile Gly Leu Arg Asp Val Asp Pro Gly Glu His Tyr Ile Ile Lys Thr
 180 185 190

Leu Gly Ile Lys Tyr Phe Ser Met Thr Glu Val Asp Lys Leu Gly Ile
 195 200 205

Gly Lys Val Met Glu Glu Thr Phe Ser Tyr Leu Leu Gly Arg Lys Lys
 210 215 220

Arg Pro Ile His Leu Ser Phe Asp Val Asp Gly Leu Asp Pro Ala Phe
 225 230 235 240

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

Gly Leu Tyr Ile Thr Glu Glu Ile Tyr Lys Thr Gly Leu Leu Ser Gly
260 265 270

Leu Asp Ile Met Glu Val Asn Pro Thr Leu Gly Lys Thr Ala Glu Glu
275 280 285

Val Lys Ser Thr Val Asn Thr Ala Val Ala Leu Thr Leu Ala Cys Phe
290 295 300

Gly Thr Gln Arg Glu Gly Asn His Lys Pro Gly Thr Asp Tyr Leu Lys
305 310 315 320

Pro Pro Lys

<210> 12

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide fragment of human Arginase 1

<400> 12

Gly Phe Ser Trp Val Thr Pro Cys Ile Ser Ala Lys Asp Ile Val Tyr
1 5 10 15

Ile Gly Leu Arg Asp Val Asp Pro Gly Glu His Tyr Ile Leu Lys Thr
20 25 30

Leu Gly Ile Lys Tyr Phe Ser Met Thr Glu Val Asp Arg Leu Gly Ile
35 40 45

Gly Lys
50

<210> 13
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide fragment of murine Arginase 1

<400> 13

Gly Phe Ser Trp Val Thr Pro Cys Ile Ser Ala Lys Asp Ile Val Tyr
1 5 10 15

Ile Gly Leu Arg Asp Val Asp Pro Gly Glu His Tyr Ile Ile Lys Thr
20 25 30

Leu Gly Ile Lys Tyr Phe Ser Met Thr Glu Val Asp Lys Leu Gly Ile
35 40 45

Gly Lys
50