

910215_407wo_SEQUENCE_LISTING

SEQUENCE LISTING

<110> Trelys, Inc.
Bradshaw, Jill

<120> COMPOSITIONS AND METHODS FOR BIOLOGICAL
PRODUCTION OF METHIONINE

<130> 910215.407wo

<140> PCT
<141> 2016-05-06

<150> US 62/157,797
<151> 2015-05-06

<160> 32

<170> FastSEQ for windows Version 4.0

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910215_407WO_SEQUENCE_LISTING

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Ser	Gly	Ile	Ala	Ala	Val	Asp	Ala	Tyr	Leu	Gly	Ala	Thr	Gln	Thr	Asn
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Tyr	Asn	Gly	Ala	Thr	Asn	Ser	Thr	Glu	Glu	Lys	Ile	Tyr	Thr	Tyr	Met
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Gln	Leu	Asn	Pro	Leu	Gln	Asn	Asp	Phe	Asn	Lys	Glu	Thr	Lys	Thr	Tyr
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910215_407WO_SEQUENCE_LISTING

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Pro	Pro	Ile	Lys	Met	Cys	Lys	Thr	Tyr	Leu	Asn	Gly	Val	Glu	Ala	Tyr				
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Ser	Gly	Ile	Ala	Ala	Val	Asp	Ala	Tyr	Leu	Gly	Ala	Thr	Gln	Thr	Asn				
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Ser	Asp	Asp	Asp	Ile	Asp	Ile	Ser	Tyr	Gly	Gly	Ser	His	Val	Leu	Glu				
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910215_407WO_SEQUENCE_LISTING

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 Arg Arg Asp Lys Pro Glu Leu Gly Val Thr Asn Tyr Lys Asp Ala Arg
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 325 330 335
 Lys Cys Met Arg Ser Ala Ser Val Ser Ser Tyr Lys Val Ser Arg Glu
 340 345 350
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 355 360 365
 Thr Gln Arg Leu Glu Pro Leu Lys Ser Ala Ala Pro Lys Pro Met Lys
 370 375 380
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 385 390 395 400
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 405 410 415
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 420 425 430
 Gly Ile Ile Thr Ser Trp Asn Ile Ala Lys Ala Met Ala Gln Asp Lys
 435 440 445
 His Ser Ile Ser Glu Ile Met Thr Thr Tyr Ile Val Ser Ala Thr Pro
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 Asp Glu Thr Ile Asp Met Ala Ala Arg Lys Met Ser Arg Asn Asn Ile
 465 470 475 480
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910215_407WO_SEQUENCE_LISTING

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 35 40 45
 Thr Gly Asp Glu Glu Gln Ile Glu Lys Ser Ile Glu Ile Leu Lys Lys
 50 55 60
 Phe Gly Glu Ala Glu Asp Ile Pro Lys Ile Ile Gln Lys Asp Asp Glu
 65 70 75 80
 Lys Cys Ile Asp Cys Gly Ala Cys Val Val His Cys Pro Val Gly Ala
 85 90 95
 Leu Ser Val Asp Glu Glu Phe Lys Ile Leu Leu Asp Glu Asp Glu Cys
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 Thr Gly Asp Glu Glu Gln Ile Glu Lys Ser Ile Glu Ile Leu Lys Lys
 50 55 60
 Phe Gly Glu Ala Glu Asp Ile Pro Lys Ile Ile Gln Lys Asp Asp Glu
 65 70 75 80
 Lys Cys Ile Asp Cys Gly Ala Cys Val Val His Cys Pro Val Gly Ala
 85 90 95
 Leu Ser Val Asp Glu Glu Phe Lys Ile Leu Leu Asp Glu Asp Glu Cys
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 aatctcggac attccgaacc cccgatcaag atccagaaac tctggtttta caacgtggag 240
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 Thr Phe Gly Ala Met Cys Ser Ser Gly Leu Met Leu Asn Leu Gly His
 50 55 60
 Ser Glu Pro Pro Ile Lys Ile Gln Lys Leu Trp Phe Asn Asn Val Glu
 65 70 75 80
 Ala Tyr Ser Gly Leu Ala Ala Val Asp Ala Tyr Leu Gly Ala Ala Gln
 85 90 95
 Ile Ser Asp Thr Arg Gly Ile Gln Tyr Gly Gly Ala His Val Ile Glu
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 Asp Leu Leu Arg Gly Lys Glu Leu Asp Val His Ala Thr Ser Tyr Gly
 115 120 125
 Thr Asp Cys Tyr Pro Arg Lys Val Leu Asp Thr Arg Ile Thr Leu Asp
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 Asp Leu Asn Glu Ala Val Leu Leu Asn Pro Arg Asn Ala Tyr Gln Lys
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 Tyr Ala Ala Ala Thr Asn Ser Ser Lys Arg Ile Leu Asn Thr Tyr Met
 165 170 175
 Gly Glu Leu Leu Pro Asn Phe Gly Asn Val Thr Tyr Ser Gly Ala Gly
 180 185 190
 Val Leu Ser Pro Leu Ser Asn Asp Pro Asp Tyr Glu Thr Ile Gly Met
 195 200 205
 Gly Thr Arg Ile Phe Met Gly Gly Ala Gln Gly Tyr Ile Ile Gly Asn
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 Gly Thr Gln His Ser Pro Ser Ser Ser Phe Gly Thr Leu Met Leu Lys

910215_407WO_SEQUENCE_LISTING

225 Gly Asn Leu Lys Glu 230 Met Ser Ser Asp Tyr 235 Leu Arg Ala Ala Ser 240 Phe
 Ala Gly Tyr Gly Thr Thr Leu Tyr Met Gly Ile Gly Ile Pro Ile Pro
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 Ile Phe Thr Asp Ile Leu Asp Tyr Ala Val Gly Ser Arg Asp Lys Pro
 Val Ile Lys Gln Val Asn Tyr Ala Glu Leu Arg Ser Gly Ser Ile Glu
 Leu Glu Gly Lys Asn Thr Pro Thr Ser Ser Leu Ser Ser Phe Lys Asn
 Ala Arg Lys Ile Ala Asn Glu Leu Lys Glu Trp Val Lys His Gly Lys
 Phe Phe Val Ser Met Pro Val Glu Lys Leu Ser Arg Glu Gly Ser Ala
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 Asp Thr Gly Glu Leu Val Gly Ile Leu Thr Ala Trp Asp Ile Ser Lys
 Ala Val Ala Glu Asn Ile Phe Asp Ser Val Glu Ser Val Met Thr Lys
 Lys Val Leu Thr Cys Ala Pro Asn Glu Pro Val Asp Leu Ala Ala Arg
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910215_407WO_SEQUENCE_LISTING

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910215_407WO_SEQUENCE_LISTING

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Ala	Arg	Arg	Tyr														
			500														