

SEQUENCE LISTING

<110> Promega Corporation
 Dart, Melanie
 Smith, Thomas
 Kirkland, Thomas
 Machleidt, Thomas
 Wood, Keith

 <120> COMPOSITIONS AND METHODS FOR STABILIZING COELENTERAZINE AND
 ANALOGS AND DERIVATIVES THEREOF

 <130> PRMG-35852.601

 <150> US 62/805,517
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 <150> US 62/740,622
 <151> 2018-10-03

 <160> 3

 <170> PatentIn version 3.5

 <210> 1
 <211> 169
 <212> PRT
 <213> *Oplophorus gracilirostris*

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Phe Thr Leu Ala Asp Phe Val Gly Asp Trp Gln Gln Thr Ala Gly Tyr
 1 5 10 15

Asn Gln Asp Gln Val Leu Glu Gln Gly Gly Leu Ser Ser Leu Phe Gln
 20 25 30

Ala Leu Gly Val Ser Val Thr Pro Ile Gln Lys Val Val Leu Ser Gly
 35 40 45

Glu Asn Gly Leu Lys Ala Asp Ile His Val Ile Ile Pro Tyr Glu Gly
 50 55 60

Leu Ser Gly Phe Gln Met Gly Leu Ile Glu Met Ile Phe Lys Val Val
 65 70 75 80

Tyr Pro Val Asp Asp His His Phe Lys Ile Ile Leu His Tyr Gly Thr
 85 90 95

Leu Val Ile Asp Gly Val Thr Pro Asn Met Ile Asp Tyr Phe Gly Arg
100 105 110

Pro Tyr Pro Gly Ile Ala Val Phe Asp Gly Lys Gln Ile Thr Val Thr
115 120 125

Gly Thr Leu Trp Asn Gly Asn Lys Ile Tyr Asp Glu Arg Leu Ile Asn
130 135 140

Pro Asp Gly Ser Leu Leu Phe Arg Val Thr Ile Asn Gly Val Thr Gly
145 150 155 160

Trp Arg Leu Cys Glu Asn Ile Leu Ala
165

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<213> Artificial sequence

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Met Val Phe Thr Leu Glu Asp Phe Val Gly Asp Trp Arg Gln Thr Ala
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Gly Tyr Asn Leu Asp Gln Val Leu Glu Gln Gly Gly Val Ser Ser Leu
20 25 30

Phe Gln Asn Leu Gly Val Ser Val Thr Pro Ile Gln Arg Ile Val Leu
35 40 45

Ser Gly Glu Asn Gly Leu Lys Ile Asp Ile His Val Ile Ile Pro Tyr
50 55 60

Glu Gly Leu Ser Gly Asp Gln Met Gly Gln Ile Glu Lys Ile Phe Lys
65 70 75 80

Val Val Tyr Pro Val Asp Asp His His Phe Lys Val Ile Leu His Tyr
85 90 95

Gly Thr Leu Val Ile Asp Gly Val Thr Pro Asn Met Ile Asp Tyr Phe
100 105 110

Gly Arg Pro Tyr Glu Gly Ile Ala Val Phe Asp Gly Lys Lys Ile Thr
115 120 125

Val Thr Gly Thr Leu Trp Asn Gly Asn Lys Ile Ile Asp Glu Arg Leu
130 135 140

Ile Asn Pro Asp Gly Ser Leu Leu Phe Arg Val Thr Ile Asn Gly Val
145 150 155 160

Thr Gly Trp Arg Leu Cys Glu Arg Ile Leu Ala
165 170

<210> 3
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<213> Artificial sequence

<220>
<223> Synthetic

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Met Lys His His His His His His Val Phe Thr Leu Asp Asp Phe Val
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Gly Asp Trp Glu Gln Thr Ala Ala Tyr Asn Leu Asp Gln Val Leu Glu
20 25 30

Gln Gly Gly Val Ser Ser Leu Leu Gln Asn Leu Ala Val Ser Val Thr
35 40 45

Pro Ile Met Arg Ile Val Arg Ser Gly Glu Asn Ala Leu Lys Ile Asp
50 55 60

Ile His Val Ile Ile Pro Tyr Glu Gly Leu Ser Ala Asp Gln Met Ala
65 70 75 80

Gln Ile Glu Glu Val Phe Lys Val Val Tyr Pro Val Asp Asp His His
85 90 95

Phe Lys Val Ile Leu Pro Tyr Gly Thr Leu Val Ile Asp Gly Val Thr
100 105 110

Pro Asn Lys Leu Asn Tyr Phe Gly Arg Pro Tyr Glu Gly Ile Ala Val
115 120 125

Phe Asp Gly Lys Lys Ile Thr Thr Thr Gly Thr Leu Trp Asn Gly Asn
130 135 140

Lys Ile Ile Asp Glu Arg Leu Ile Thr Pro Asp
145 150 155