

Bursicon-alpha

1	ATG	AGC	TGG	TGC	CTG	GTT	CTG	GTG	GCC	GCG	CTG	ACG	GTG	GCC	GCC	45
1	M	S	W	C	L	V	L	V	A	A	L	T	V	A	A	15
46	TCG	CGG	CTG	GCG	CTC	ACC	GGC	GCC	GAT	GAG	TGC	AAA	CTG	ACG	CCG	90
16	S	R	L	A	L	T	G	A	D	E	C	K	L	T	P	30
91	GTC	GTG	CAC	GTG	CTC	CAG	TAC	CCG	GGC	TGT	GTG	CCC	AAG	CCG	ATT	135
31	V	V	H	V	L	Q	Y	P	G	C	V	P	K	P	I	45
136	CCG	TCG	TAC	GCC	TGC	GTC	GGC	CAC	TGC	ACC	AGC	TAT	GTG	CAG	GTC	180
46	P	S	Y	A	C	V	G	H	C	T	S	Y	V	Q	V	60
181	TCC	GGC	AGC	AAA	CTG	TGG	CAA	ACG	GAG	CGC	TCC	TGC	ATG	TGC	TGC	225
61	S	G	S	K	L	W	Q	T	E	R	S	C	M	C	C	75
226	CAA	GAG	AGT	GGC	CAG	CGA	GAG	GCC	TCC	GTC	TCA	ATC	TTC	TGC	CCC	270
76	Q	E	S	G	Q	R	E	A	S	V	S	I	F	C	P	90
271	AAG	GCC	AAA	CAA	AGC	GAC	CAA	AAG	TTC	CGA	AAG	ATC	GTG	ACC	CGG	315
91	K	A	K	Q	S	D	Q	K	F	R	K	I	V	T	R	105
316	GCG	CCG	GTC	GAG	TGC	ATG	TGC	CGG	CCG	TGC	ACC	CAG	GCC	GAG	GAG	360
106	A	P	V	E	C	M	C	R	P	C	T	Q	A	E	E	120
361	AGC	AAG	GCC	ATC	CCG	CAG	GAG	GTG	GCC	GGC	TTC	GTC	TCC	GGC	GGT	405
121	S	K	A	I	P	Q	E	V	A	G	F	V	S	G	G	135
406	ATG	TCG	CTC	GAG	TCG	ATG	CCG	TTC	GTC	TGA						435
136	M	S	L	E	S	M	P	F	V	*						

Bursicon-beta

1	ATG	GCC	CGC	CTC	CGC	GCC	GCC	GGC	CTG	CTG	CTA	GCG	CTG	CTG	ACC	45
1	M	A	R	L	R	A	A	G	L	L	L	A	L	L	T	15
46	GTC	AGC	GGC	TGC	CGC	GCT	GCC	CGG	CCG	CAG	TGT	GAG	ACC	ATC	CCC	90
16	V	S	G	C	R	A	A	R	P	Q	C	E	T	I	P	30
91	TCG	ACC	ATA	CAC	ATC	ACC	AAA	GAT	GAG	TTC	AGC	TCC	TCT	GGC	CAG	135
31	S	T	I	H	I	T	K	D	E	F	S	S	S	G	Q	45
136	CTG	GAG	CGG	ACG	TGC	GAG	GGC	GAC	ATT	CCT	GTC	AAC	AAG	TGC	GAA	180
46	L	E	R	T	C	E	G	D	I	P	V	N	K	C	E	60
181	GGC	ACG	TGC	AGC	TCC	CAG	GTG	CAG	CCG	TCG	GTC	ATC	TCG	CCG	TCC	225
61	G	T	C	S	S	Q	V	Q	P	S	V	I	S	P	S	75
226	GGC	TTC	AAT	AAG	GAG	TGC	AGC	TGC	TGT	AAG	GAG	ACC	GGT	CTG	CGC	270
76	G	F	N	K	E	C	S	C	C	K	E	T	G	L	R	90
271	GTG	CGC	GAG	ATC	ACG	CTG	ACG	CGC	TGC	TTC	AAC	CCG	GAC	GGT	CAG	315
91	V	R	E	I	T	L	T	R	C	F	N	P	D	G	Q	105
316	CAG	GTG	GCC	GGC	GAC	CAG	GGC	CGG	CTG	ACG	GTC	AAA	CTG	CGC	GAG	360
106	Q	V	A	G	D	Q	G	R	L	T	V	K	L	R	E	120
361	CCC	TCC	GAC	TGC	CGC	TGT	TCG	CGC	TGT	GAA	AAC	TAG				396
121	P	S	D	C	R	C	S	R	C	E	N	*				

Calcitonin-like diuretic hormone A

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1   ATG GTG CGG CAC GTG ACT GGG CTG GGA GCA GTG GCC GCG CTG GCC 45
1   M  V  R  H  V  T  G  L  G  A  V  A  A  L  A  15
46  GCG CTC GTC TGC TTC GCA CTC TGC TGG GTC TCA GCC TCT GCC GCC 90
16  A  L  V  C  F  A  L  C  W  V  S  A  S  A  A  30
91  AGT CTC CAC CTG GAC GAT GGA GAA AGA AAA CCA TGG ATG GAC GAA 135
31  S  L  H  L  D  D  G  E  R  K  P  W  M  D  E  45
136 ATG GAG GCC AAC CTA CAG AAC GAC CTC TAC CTG AGC GAG CTG GTC 180
46  M  E  A  N  L  Q  N  D  L  Y  L  S  E  L  V  60
181 AGC CGG CTG CGC GCG CTC AAC GAC GCC GAG GTG GCC GGA CTC GCC 225
61  S  R  L  R  A  L  N  D  A  E  V  A  G  L  A  75
226 CAC AAG CGC GGT TTT GAC TTC GGC CTG GGC CGC GGA TTT TCG GCC 270
76  H  K  R  G  F  D  F  G  L  G  R  G  F  S  A  90
271 TCC CAG GCC GCC AAG CAC AAG ATG GGT CTG GAG GCG GCT GAG TTC 315
91  S  Q  A  A  K  H  K  M  G  L  E  A  A  E  F  105
316 CCC AGC GGC CCC GGA CGC AGG CGG CGC TCC CTG GAG CAA GAC CTG 360
106 P  S  G  P  G  R  R  R  R  S  L  E  Q  D  L  120
361 AGG CAC TAG 369
121 R  H  *

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Calcitonin-like diuretic hormone B

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1   ATG TGC CGC TCT GCG CTG CTG TCC GGC GGT GTG ACC GTG TTC CTC 45
1   M  C  R  S  A  L  L  S  G  G  V  T  V  F  L  15
46  GTC GCC CTG GTC CTC TGC ACA CTG TCA CTC TGC TCA GCG GCC AGC 90
16  V  A  L  V  L  C  T  L  S  L  C  S  A  A  S  30
91  CTA CAG GTC AAC GAT GGA CTT GAA AGG AAG CCG TGG ATG GAT GCG 135
31  L  Q  V  N  D  G  L  E  R  K  P  W  M  D  A  45
136 GTA CAG CGA GAA CTG CCC AGT GAC GCC TAC ATG ACC GAG TTT ATC 180
46  V  Q  R  E  L  P  S  D  A  Y  M  T  E  F  I  60
181 GCC CGG CTG CGA GCG CTC AAA GAC GCC GAG GAC ATC GGG CTT GCA 225
61  A  R  L  R  A  L  K  D  A  E  D  I  G  L  A  75
226 CAG AAG CGC GGA CTG GAC TTC GGC CTG GGA CGC GGC TTC TCC GGC 270
76  Q  K  R  G  L  D  F  G  L  G  R  G  F  S  G  90
271 AGC CAG GCG GCG AAG CAC ATG ATG GGA CTG GCG GCG GCC AAC TTC 315
91  S  Q  A  A  K  H  M  M  G  L  A  A  A  N  F  105
316 GCC GGC GGT CCG GGC CGG CGG CGG CGG TCA GCC CCT CTG CCG ACG 360
106 A  G  G  P  G  R  R  R  R  S  A  P  L  P  T  120
361 CTC CAC TAG 369
121 L  H  *

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Eclosion hormone

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1   ATG AAC AGG ACC GAG TCG CTG CTG GTG CTC TGC GGC GCG ATT GTC   45
1   M  N  R  T  E  S  L  L  V  L  C  G  A  I  V   15
46  GTC CTC CTG CTG AGC GGC CCG GCC CAG GCC AGC ATC GGC TCT TGT   90
16  V  L  L  L  S  G  P  A  Q  A  S  I  G  S  C   30
91  GTC CGA AAC TGC GGC CAG TGC AAG AGC ATG TAC GGC CGG TTC TTC  135
31  V  R  N  C  G  Q  C  K  S  M  Y  G  R  F  F   45
136 CAG GGC ACC GCC TGT GCG GAC GCC TGT CTG GCC GGG AAT GAG GGC  180
46  Q  G  T  A  C  A  D  A  C  L  A  G  N  E  G   60
181 CCC GAC TGC TAC AAC CCC TCG ATG GTC TCG CGC TTT CTG AAG CGG  225
61  P  D  C  Y  N  P  S  M  V  S  R  F  L  K  R   75
226 CGA GCC TCG CCG GTG GTC CCC GCG TCC CCC GGG CTG GCG TCC CTC  270
76  R  A  S  P  V  V  P  A  S  P  G  L  A  S  L   90
271 GGC GGC AGT ACG AGT ACT ACA GCG TGG ACG GCC AGC CGG CAG AGG  315
91  G  G  S  T  S  T  T  A  W  T  A  S  R  Q  R   105
316 TGC CCA TTT CCG GCA GCT CGG CTC TCT TCA GAA TGC TCT CAG CTC  360
106 C  P  F  P  A  A  R  L  S  S  E  C  S  Q  L   120
361 GAG GAG TGG AGG CGC GGA AGT ACG CCC CGG CGA GCT CTG CAC CTC  405
121 E  E  W  R  R  G  S  T  P  R  R  A  L  H  L   135
406 CAT TAC GCA TTT CCC ATC GTG AAC TGA   432
136 H  Y  A  F  P  I  V  N  *   *
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Insulin-related peptide

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1   ATG GCG CAG CTG CGA CAC GTC CTC TTC ATG ATG CTG CTC GGA GCC   45
1   M  A  Q  L  R  H  V  L  F  M  M  L  L  G  A   15
46  GTT TCC ACG GAC ATT GCA TCG GGT TCC AGC AGC TGG AAG CGG CCC   90
16  V  S  T  D  I  A  S  G  S  S  S  W  K  R  P   30
91  GTC GAC AAG CGT GGT CCT GCG ATG CAC TTC TGC GGT CCC TCG CTG  135
31  V  D  K  R  G  P  A  M  H  F  C  G  P  S  L   45
136 GCT GAC GCC CTG GAA ATG GTG TGC GAG TTC GGA ATG GGA AAA CGG  180
46  A  D  A  L  E  M  V  C  E  F  G  M  G  K  R   60
181 TCC AGA ACC GCG CCT CGC CAG AAT CTG CTG AGG CCG GAA TTT TCT  225
61  S  R  T  A  P  R  Q  N  L  L  R  P  E  F  S   75
226 GGC GGA CAT CTC TCC ACC TCG TCT GCT TCC ACC ATG CCC TAC TAC  270
76  G  G  H  L  S  T  S  S  A  S  T  M  P  Y  Y   90
271 CAG ACG CAG CTC TAC CAG TCT GCA GAC TCC AGG ACC AAG AGG AGT  315
91  Q  T  Q  L  Y  Q  S  A  D  S  R  T  K  R  S   105
316 CCG GGC ATT GTG GAG GAA TGC TGC CTG AAT CCG TGC ACG CTG AGC  360
106 P  G  I  V  E  E  C  C  L  N  P  C  T  L  S   120
361 ACA CTA GCA CAG TAC TGC TGA   381
121 T  L  A  Q  Y  C  *   *
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Neuropeptide F

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1   ATG AGG GAC AGC ATG CGA CTG GCG CTG GCA CTA CTG CTC ACG GCT   45
1   M  R  D  S  M  R  L  A  L  A  L  L  L  T  A   15
46  CTG CTG GTG CTG CCC AGA CAT CAC GTG ACC GCC TCG GAG CCA CGT   90
16  L  L  V  L  P  R  H  H  V  T  A  S  E  P  R   30
91  GAC CTG AGG TCG GCC GGC AGC GGC GAG ATG CTA TCC GGC GAC ATC  135
31  D  L  R  S  A  G  S  G  E  M  L  S  G  D  I   45
136 GAC AAC TAC CTC AGC GAG CTC AAG GAT TTC TAC ACG AAA GTC GGC  180
46  D  N  Y  L  S  E  L  K  D  F  Y  T  K  V  G   60
181 AGG CCC AGG TTC GGC AAA CGC AGC ACC CGC GTC CGG CGG TGG CGC  225
61  R  P  R  F  G  K  R  S  T  R  V  R  R  W  R   75
226 ACG GTG GCG TCA CTC GGT GAC GTC ATA CAC GAG CTG CGC TTC TGA  270
76  T  V  A  S  L  G  D  V  I  H  E  L  R  F  *   *
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Orcokinin

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1   ATG GCG AGT CTG TCC TAC TCG GCT CTG CTG CTG GCC ACA GCC CTG 45
1   M  A  S  L  S  Y  S  A  L  L  L  A  T  A  L  15
46  GTG GGC CTG GAG GCG CGC CCC TAC AAG GAC CAG CAG CTA TCG GAC 90
16  V  G  L  E  A  R  P  Y  K  D  Q  Q  L  S  D  30
91  CGG GGG ATC GAC TCT CTG GGC GGC GGC CAC TTA CTC AGA GGT ATC 135
31  R  G  I  D  S  L  G  G  G  H  L  L  R  G  I  45
136 GAC TCA CTG GGC GGC GGC CAC CTG TTG AGG GGA ATC GAC TCT CTC 180
46  D  S  L  G  G  G  H  L  L  R  G  I  D  S  L  60
181 GGC GGA GGA CAC CTC CTG AGA GGA ATC GAC TCC CTG GGC GGA GGA 225
61  G  G  G  H  L  L  R  G  I  D  S  L  G  G  G  75
226 CAC CTG TTG CGA GGA ATC GAC TCT CTG GGA GGA GGA CAT CTG CTC 270
76  H  L  L  R  G  I  D  S  L  G  G  G  H  L  L  90
271 CGG GAG GCG GAC TCC CAG GGA GGA CGG CGG CAC CTC TCC AAC GTC 315
91  R  E  A  D  S  Q  G  G  R  R  H  L  S  N  V  105
316 TAC ACA CAG AGG CTG ATC GAC TAC TAC AAC AGC CAC CCG GAG GCC 360
106 Y  T  Q  R  L  I  D  Y  Y  N  S  H  P  E  A  120
361 TAT GAC CGG GAG GTG CGC GCC CTG GAC CCG CTC AGC GGC GTC TCG 405
121 Y  D  R  E  V  R  A  L  D  P  L  S  G  V  S  135
406 TTC GGT GTG GAG AAG CGG CTC GAC TCG CTC AGT GGC ATG ACC TTC 450
136 F  G  V  E  K  R  L  D  S  L  S  G  M  T  F  150
451 GGC CTG GAG AAG CGC AAC TTT GAC GAA ATC GAT CGA TCG GGC TTC 495
151 G  L  E  K  R  N  F  D  E  I  D  R  S  G  F  165
496 AGC GGC TTC GCG AAG CGC AAC TTC GAC GAG ATC GAC CGA TCT GGC 540
166 S  G  F  A  K  R  N  F  D  E  I  D  R  S  G  180
541 TTC ACT GGC TTT GCG AAG CGG CCA CAG CAG TCC AGC GTA CAA AAG 585
181 F  T  G  F  A  K  R  P  Q  Q  S  S  V  Q  K  195
586 CGC AAC TTT GAC GAA ATC GAT CGC AGC GGA TTC AGC GGT TTT GTG 630
196 R  N  F  D  E  I  D  R  S  G  F  S  G  F  V  210
631 AAG CGG GAG GCG CCG GCC AAA GAG AAA CTG TAG 663
211 K  R  E  A  P  A  K  E  K  L  *

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Pigment dispersing hormone

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1   ATG AGG ACC GGT ATC GTC TGT CTG CTG CTG AGC GCG CTG GTC GCC 45
1   M  R  T  G  I  V  C  L  L  L  S  A  L  V  A  15
46  CTC GCC CTC GGC GCG CCC GAC CGG TAC TCC AGC GAC GAG CTC GAC 90
16  L  A  L  G  A  P  D  R  Y  S  S  D  E  L  D  30
91  CTG GCC ACG CGA CAG ATG ATC GGT GAG CTG GCC GGC CGA ATC CTG 135
31  L  A  T  R  Q  M  I  G  E  L  A  G  R  I  L  45
136 CGC CTG GCC CGC CCC GCC AGC GCC CTG GGC GCG CAG AAA CGC AAC 180
46  R  L  A  R  P  A  S  A  L  G  A  Q  K  R  N  60
181 TCG GAG CTC ATC AAC TCG CTG CTC GGC CTG CCC AAG ATC ATG AAC 225
61  S  E  L  I  N  S  L  L  G  L  P  K  I  M  N  75
226 GAG GCC GGC CGG TGA 240
76  E  A  G  R  *

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SIFamide

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1   ATG GGC AGC CGG TGC GCA GTT CGT CGA GTG GCC GCC GTG CTG GTG 45
1   M  G  S  R  C  A  V  R  R  V  A  A  V  L  V  15
46  GTG GCG CTA GTA GCG ATG GCG CTA CTA GCG CCT CTG ACA GAG GCC 90
16  V  A  L  V  A  M  A  L  L  A  P  L  T  E  A  30
91  GGC TAC CGC AAG CCA ACA TTC AAC GGC AGC ATT TTC GGC AAA CGC 135
31  G  Y  R  K  P  T  F  N  G  S  I  F  G  K  R  45

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136	GCA	GCC	GCC	GCG	GCC	GAA	GCG	GAA	GCA	GCC	CAG	GGC	CTG	GCC	CGC	180
46	A	A	A	A	A	E	A	E	A	A	Q	G	L	A	R	60
181	ATG	TGT	GCA	GCC	GCC	TAT	ACA	GTC	TGT	GGT	TTT	CCC	GCC	GAA	TAA	225
61	M	C	A	A	A	Y	T	V	C	G	F	P	A	E	*	

Sulfakinin

1	ATG	TTG	GTC	GAG	GGC	TGT	CTA	CCT	GTG	ATC	CTG	ATG	ATA	GCC	GTG	45
1	M	L	V	E	G	C	L	P	V	I	L	M	I	A	V	15
46	CTG	TCC	GGG	CGG	CAA	CAC	CTG	GTC	AGG	GCC	GAC	CAG	GAG	CAC	TTC	90
16	L	S	G	R	Q	H	L	V	R	A	D	Q	E	H	F	30
91	ATC	AGT	AGC	GCG	CGC	GTC	GGA	CCC	CTG	TTC	GAG	GAC	TTT	GAG	CCA	135
31	I	S	S	A	R	V	G	P	L	F	E	D	F	E	P	45
136	GAC	CTG	TAC	GAC	TAC	GAG	GAC	AAG	CGG	GCG	CTC	GAC	TAC	GGC	CAC	180
46	D	L	Y	D	Y	E	D	K	R	A	L	D	Y	G	H	60
181	CTG	CGC	TTC	GGC	AAG	CGG	ACG	GCG	AGC	CTC	GCG	TCC	GCC	GGA	GAG	225
61	L	R	F	G	K	R	T	A	S	L	A	S	A	G	E	75
226	TCC	GGC	GGA	CAG	CTC	GCC	GAC	GCC	AAA	CGC	AAC	CCC	GAC	TAC	GGC	270
76	S	G	G	Q	L	A	D	A	K	R	N	P	D	Y	G	90
271	ATG	ATG	AAG	TTT	GGC	CGG	CGC	TCC	CCG	GAT	TAC	GGC	TTC	ATG	AAG	315
91	M	M	K	F	G	R	R	S	P	D	Y	G	F	M	K	105
316	TTC	GGT	CGA	CGC	TCG	CCA	GAC	TAC	GGC	TTC	ATG	AAG	TTC	GGA	AAG	360
106	F	G	R	R	S	P	D	Y	G	F	M	K	F	G	K	120
361	AGG	CGA	GCG	GCA	AAA	TCG	GCC	GGT	AGG	AGC	TGA	393				
121	R	R	A	A	K	S	A	G	R	S	*					

Tachykinin-related peptide

1	ATG	CAG	AGC	GTG	TCG	CCG	CTG	CCG	CTG	CTG	GCC	CTC	AGT	CTG	CTG	45
1	M	Q	S	V	S	P	L	P	L	L	A	L	S	L	L	15
46	GTG	CTG	TCT	GCC	GGT	GCC	AGC	GCC	GCC	TCG	CTG	CGC	CGG	CCC	CAC	90
16	V	L	S	A	G	A	S	A	A	S	L	R	R	P	H	30
91	ACC	GGC	TTC	CTG	GGG	ATG	CGC	GGC	AAG	CGC	TCG	GCG	CCG	GCG	CCG	135
31	T	G	F	L	G	M	R	G	K	R	S	A	P	A	P	45
136	ACC	GAG	CTG	CAG	CTG	CCG	TCC	GTG	ACG	CTG	CGC	CAG	CCG	CTG	CCC	180
46	T	E	L	Q	L	P	S	V	T	L	R	Q	P	L	P	60
181	GGC	CAG	CTG	CCG	TCG	CCC	CAG	CAG	CTG	TTG	CAG	CTG	TTC	CGC	GCA	225
61	G	Q	L	P	S	P	Q	Q	L	L	Q	L	F	R	A	75
226	GCC	GGC	CCC	TAC	AGC	CGA	CAG	CTG	GCC	GCA	CGG	ATC	GCC	GAC	AAA	270
76	A	G	P	Y	S	R	Q	L	A	A	R	I	A	D	K	90
271	CGG	GCA	CCC	AGC	GGG	TTC	GCC	GGA	ATG	CGG	GGA	CGC	AAG	AGG	GAG	315
91	R	A	P	S	G	F	A	G	M	R	G	R	K	R	E	105
316	GAG	CTG	GGC	GCG	CGG	GGC	AGT	GAG	GAC	CAC	CTG	GAG	AAA	CGC	GTG	360
106	E	L	G	A	R	G	S	E	D	H	L	E	K	R	V	120
361	CCC	AGT	GGC	TTC	GGA	GGC	ATG	AGG	GGC	AAG	AAG	GCC	GAC	GTG	GTG	405
121	P	S	G	F	G	G	M	R	G	K	K	A	D	V	V	135
406	GAG	GGA	GGG	GAG	CAC	AAG	AGG	GCG	CCG	CAA	AAC	TCC	TTC	CTC	GGA	450
136	E	G	G	E	H	K	R	A	P	Q	N	S	F	L	G	150
451	CTG	AGG	GGG	AGG	AGA	GAG	GAA	CAG	GGA	CAC	CCC	TAA	486			
151	L	R	G	R	R	E	E	Q	G	H	P	*				