

Gene: MYBPC3 - Sequence: NG_007667.1
Date : January 11, 2015

Exon 1 | Start: 1 | End: 80 | Length: 79

```

. . . . .
cttaggggttatgggcccagcatgctccaccgtacaatttgctgtaagagggacacacac

. . . . .
ggggccttgagtagccctgaggcttgccaaaggttggggaggcagaattgtgctgcgggg

. . . . .
ggtgaggggggaaggagcaggagccagggacaatgtggccctaccttctccctgga

. . . . .
gagacctcagctctctggaattcatctatatatttagcaggtggctggacaggaggcagata

. . . . .
agcagagcctggggaggggggaggtcccatatatagtggggaaggacaggaccccactca

      |-49      |-39      |-29      |-19      |-9      |1
AGTCCTCTTTGGGTGACCTGTGCCTGCTTCGTGCCTGGTGTGACGTCTCTCAGGATGCC
                                     M P
                                     |1

      |11      |21      . . . . .
TGAGCCGGGGAAGAAGCCAGgtagctttaggactggggttgggtctaagtgtgggagcag
E P G K K P V

. . . . .
gggggtgtctacaattggggagcagggttaggaggagttcttgagggggttgacgagga

. . . . .
cgtggcctctgagccccaggacaggggcagccagtcctccagggtccttttttgattctc

. . . . .
ggtttctttttcccatccctctgatgagaggtgaaggtaaaccaaggtcagggacgcag

. . . . .
agaggggacacagccaagacaggaagcacccggggtcaaccattctgagaatgcaaagg

. . . . .

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gaccccttcctgtcccatt

Exon 2 | Start: 81 | End: 347 | Length: 266

.
tgtctccaagcagggaaagtggacacatgcagaaaaagtcttggtggaggtcaggacca
.
cagccctggctctcccactgctagctgtgtgatcttgaggagccgcttagcttctctg
.
agcctcagtgtcctcctctgagaaatgaacagaataactgcaactacctcagagaactgg
.
tagagtattacgtgaggggatgcatagaaagtgctagcacagtatttactgagaggggct
.
gcagggggcggggtgcacgctccaaccaggggccgctgtagcctccacctggcccttcagt

 |31 |41 |51 |61 |71 |81
TCTCAGCTTTTAGCAAGAAGCCACGGTCAGTGGAAGTGCCCGCAGGCAGCCCTGCCGTGT
 S A F S K K P R S V E V A A G S P A V F
 |11 |21

 |91 |101 |111 |121 |131 |141
TCGAGGCCGAGACAGAGCGGGCAGGAGTGAAGGTGCGCTGGCAGCGCGGAGGCAGTGACA
 E A E T E R A G V K V R W Q R G G S D I
 |31 |41

 |151 |161 |171 |181 |191 |201
TCAGCGCCAGCAACAAGTACGGCCTGGCCACAGAGGGCACACGGCATACGCTGACAGTGC
 S A S N K Y G L A T E G T R H T L T V R
 |51 |61

 |211 |221 |231 |241 |251 |261
GGGAAGTGGGCCCTGCCGACCAGGGATCTTACGCAGTCATTGCTGGCTCCTCCAAGGTCA
 E V G P A D Q G S Y A V I A G S S K V K
 |71 |81

 |271 |281 |291
AGTTCGACCTCAAGGTCATAGAGGCAGgtaagatcctgatcagccttcctgaggtttgg
 F D L K V I E A E

|91

```
. . . . .
gctgctgggggaggggcagcccagcgactctccatccatccagggaacaggaggtgcttt
. . . . .
cacactttcttgcccttgctgtggctgtgcccccgccaggaacgccctttccccctttt
. . . . .
ctgcacatgacctctctgagtacccccatgtgccatcctggcttgttccagccatgggggt
. . . . .
aggtgggagagatgaacaagacacaacccccactctccccctgcagacctccctggggaga
. . . . .
tgacctgcacagacggccgggaagcc
```

Exon 3 | Start: 348 | End: 461 | Length: 113

```
. . . . .
gcagcccagctctgaggggctgctctaaggctggggcagagcagggatggacctggagctg
. . . . .
ttcagggcagatgcagaggacatgggaactgatggcctgggacggggaggagaatgtgag
. . . . .
aggcaggctggctctccagctcagcatgagctgcctctgagggggccaggcagcgggagg
. . . . .
acagccatggcagactttcctcatccacagcgggctcatgggtccaatgctcaggagaga
. . . . .
gaggggtggaggggtctctggttagtggtgcaccacgactcccatctgatcccctccaga
```

```
      |301      |311      |321      |331      |341      |351
AGAAGGCAGAGCCCATGCTGGCCCCCTGCCCCTGCCCCTGCTGAGGCCACTGGAGCCCCTG
  K  A  E  P  M  L  A  P  A  P  A  P  A  E  A  T  G  A  P  G
      |101                      |111

      |361      |371      |381      |391      |401      .
GAGAAGCCCCGCCCCAGCCGCTGAGCTGGGAGAAAAGTGCCCCAAGTCCCAAAGgtgaga
  E  A  P  A  P  A  A  E  L  G  E  S  A  P  S  P  K  G
```

|121

|131

.
ggggctgggcagggaggggcaggatccgtgggtagggcgtgtccagggcaggtctcaaaa
.
gcctttgctgggccaggtgcggtggctcaggcctataatccccagtactttgggaggccg
.
aggtgggcggatcatgaggtcaggagattgagaccatcctggctaacaatgatgaaacccc
.
atcttactaaaaatacaaaaaaattagccgggcgtggtggcgggcacctgcggtcccag
.
ctaacttgggaggctgaggcaggagaatggtgtgaacctgggaggcggagcttg

Exon 4 | Start: 462 | End: 560 | Length: 98

.
gctcaggcctataatccccagtactttgggaggccgaggtgggcggatcatgaggtcagg
.
agattgagaccatcctggctaacaatgatgaaacccatcttactaaaaatacaaaaaa
.
ttagccgggcgtggtggcgggcacctgcggtcccagctaacttgggaggctgaggcagga
.
gaatggtgtgaacctgggaggcggagcttgagtgagccgagattgtgcctctgcactcc
.
agcctgggtgacagagcaagactccatctcaaacaacagaaaaagcctttgctcacagg

|411 |421 |431 |441 |451 |461
GGTCAAGCTCAGCAGCTCTCAATGGTCCTACCCCTGGAGCCCCGATGACCCCATTTGGCC
S S S A A L N G P T P G A P D D P I G L
|141 |151

|471 |481 |491 |501
TCTTCGTGATGCGGCCACAGGATGGCGAGGTGACCGTGGgtgagtgtagctgtgtgcc
F V M R P Q D G E V T V G

|161

.
cagcattggggtgggaagggggggcagcaggacactccccaagccgggcctgtcgcccct
.
gcctttgcaggtggcagcatcaccttctcagcccgctggccggcgccagcctcctgaag
.
ccgcctgtgggtcaagtgggttcaagggaatgggtggacctgagcagcaaggtgggccaag
.
cacctgcagctgcacgacagctacgaccgcccagcaaggtgggtccaccggggtcgagg
.
agacacggagagaggggacatggagagccctagaaggca

Exon 5 | Start: 561 | End: 709 | Length: 148

.
aacctgggaggcggagcttgcaagtgcagccgagattgtgcctctgcactccagcctgggtg
.
acagagcaagactccatctcaaacaacagaaaaagcctttgctcacagggtcaagctca
.
gcagctctcaatgggtcctaccctggagccccgatgacccattggcctcttcgtgatg
.
cggccacaggatggcgagggtgaccgtgggtgagtgtagctgctgtgccagcattgggg
.
tgggaagggggggcagcaggacactccccaagccgggcctgtcgcccctgcctttgcagg

511	521	531	541	551	561
GTGGCAGCATCACCTTCTCAGCCCGCGTGGCCGGCGCCAGCCTCCTGAAGCCGCCTGTGG					
G S I T F S A R V A G A S L L K P P V V					
171			181		

571	581	591	601	611	621
TCAAGTGGTTCAAGGGCAAATGGGTGGACCTGAGCAGCAAGGTGGGCCAGCACCTGCAGC					
K W F K G K W V D L S S K V G Q H L Q L					

|191 |201
 |631 |641 |651
 TGCACGACAGCTACGACCGCGCCAGCAAGgtgggtccaccggggtcgtggagacacggag
 H D S Y D R A S K
 |211

.
 agaggggacatggagagccctagaaggcacaaggcacacagagggcacccatgagaccag

 aggcacacacgagctgcaagcaaggggtgtggggaatctgggaggcaggtggaggggcca

 gggggccacaggagatcccggaggcctggggggccagggagtgcatgaggctcatggga

 gcactgtcggggacctgggagacttgggtggacatgatcacctcaagggggcacctaataa

 ggtttggccgggggtgggggggtcgcccag

Exon 6 | Start: 710 | End: 827 | Length: 117

.
 ctccacctcctgggttcaagcgattctccacctcagcctcccagtagctgaaactaga

 ggtgtgcaccaccatacttggctaattttcgttatTTTTtagtagagacggaatttcacca

 cgttggccaggctggtctggagctcctggtcttatgtgatccgccgcctcagcctcca

 aagtggggattacaggcctgagccaccgcgccggccactcccagtcctttaaagggtg

 cggagccttgtctcccgcccctgggtgtcccctgacgccccgtccctccatgcacacagg
 |661 |671 |681 |691 |701 |711
 GTCTATCTGTTTCGAGCTGCACATACCGATGCCAGCCTGCCTTCACTGGCAGCTACCGC
 V Y L F E L H I T D A Q P A F T G S Y R

221		231
721	731	741
751	761	771
TGTGAGGTGTCCACCAAGGACAAATTTGACTGCTCCAACCTCAATCTCACTGTCCACGgt		
C E V S T K D K F D C S N F N L T V H E		
241		251

```

. . . . .
gagggggccctggtgtctgtcctgggctcgggctcccatgggtcctggtctcttacctc
. . . . .
cttttccaacactaaggaggatgcctcgtcccatccagacatgagtgtggccacgtgc
. . . . .
ccagtgtgcacacacaggggtgtgagagaaacccaaggcttgcagggtaggcgtggggg
. . . . .
cttagggctgagtccgggtctcatctgggtgggactctgttttatcatcttggtgtcacg
. . . . .
gctcctggcccatggcctggcactgtctgaatgtttgggcgatgggtgaaggtgagtt

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Exon 7 | Start: 828 | End: 876 | Length: 48

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. . . . .
tgttttatcatcttggtgtcacggctcctggcccatggcctggcactgtctgaatgtttg
. . . . .
ggcgatgggtgaaggtgagttgagagatgggtgggaattggggacaataaacgtccac
. . . . .
ctgcctgggtaccttgaccctgggaaaggctgggaaggtagatcctggggcagatgccca
. . . . .
gcctcatggggcatgaatgggcaagtctgtgaatactcagaggccgccccagggcagg
. . . . .
gcttctcaaacggccccctctgaagccccttcccccatctctccaccctttgaaccaga

```

781	791	801	811	821	.	.
AGGCCATGGGCACCGGAGACCTGGACCTCCTATCAGCCTTCGCGGCAGgtgagtggcca						
A M G T G D L D L L S A F R R T						

|261

|271

.
tcctcagggcctgggggaggccagtgctggagtctgaggcccttcagggtctcgactggg
ggtcagggctggggatgatttgcgggcgagctgaagtcagtgggggctgcaggggaga
gcaagcttcccaggcaggtgaggatactgagtctaacccccacaggagcctggctggagg
tggtcggcgatcaggtaccctgccccaggccctacctgcaccatccgcagacccccag
gggtctgagacgggtgggagcccaatctggctagtgtccctttctcct

Exon 8 | Start: 877 | End: 906 | Length: 29

.
cgccccagggcagggttctcaaacggccccctctgaagccccttccccatctctcca
ccctttgaaccagaggccatgggcaccggagacctggacctcctatcagccttccgccg
cacgtgagtggccatcctcagggcctgggggaggccagtgctggagtctgaggcccttca
gggtctcgactgggggtcagggtggggatgatttgcgggcgagctgaagtcagtggg
ggctgcaggggagagcaagcttcccaggcaggtgaggatactgagtctaacccccacagg

|831 |841 |851
GAGCCTGGCTGGAGGTGGTCGGCGGATCAGgtaccctgccccaggccctacctgcacca
S L A G G R R I S

|281

.
tccgcagacccccagggtctgagacgggtgggagcccaatctggctagtgtccctttct

.
 ccctccccactccactcccacccctgctcctaataccctttccagtcctcactgcagcctc

 actgggggtccctctccatagtgatagccatgaggacactgggattctggacttcagctc

 actgctgaaaaagaggtgagtcctgggtggcagttcctggggcagctggtgaggcctggc

 tccaaatcccagcactgtggtttgccagct

Exon 9 | Start: 907 | End: 960 | Length: 53

.
 gctgggggatgatttgcggggcgagctgaagtcagtgggggctgcaggggagagcaagct

 tcccaggcaggtgaggatactgagtcctaacccccacaggagcctggctggagggtggtcgg

 cggatcaggtacccttgccccaggccctacctgcacccatccgcagacccccaggggtctg

 agacgggtgggagcccaatctggctagtgtccctttctccctccccactccactcccatc

 ctgctcctaataccctttccagtcctcactgcagcctcactgggggtccctctccatagt

	861	871	881	891	901	.
TGATAGCCATGAGGACACTGGGATTCTGGACTTCAGCTCACTGCTGAAAAAGAGgtgagt						
D S H E D T G I L D F S S L L K K R						
	291				301	

.
 cctgggtggcagttcctggggcagctggtgaggcctggctccaaatcccagcactgtggt

 ttgccagctgtgtgaccctgagcacaacactgcacctctctgagttggtttccttgctg

 tcgaggggatgatcccagtggtggaaggagttaaagggtctgcagacattatgtcccgctc

.
 aacagtcacctcacagtggtccccacggccactccacacttgaggctgcaaaagctccc

 tccgtaaaactccggggacccagaaggaacagagagagggtccccagagctgcag

Exon 10 | Start: 961 | End: 963 | Length: 2

.
 gcacctctctgagttgggtttccttgctgtcgcaggggatgatcccagtggtgaaggagtt

 aaagggtctgcagacattatgtcccgtaacagtcacctcacagtggtccccacggcc

 actccacacttgaggctgcaaaagctccctccgtaaaactccggggacccagaaggaacag

 agagagggtccccagagctgcagggtctaccagggtcggcccaactgacttatgttctctc

 tgcctctctctccctctccccggcccctccattatggctgctgctgtgtggccaga

 AGAgtaagaatcggggtctgggtgtttggggcggcaggcgctggtgggtgcagagggg
 D

.
 attcccggtcccctctctgagaggctgtggtgagagactcagagcagggtgcggctcccca

 cggacagggtgagtcctgtgccttgggcttctcctgccaccacctatctgtcagagc

 ttaggagggataagaaaaagtaatgcacacaggaggtcctgccagagcctccggagcagc

 atgggtgccccacacaggagtgcaagtgcggaaaataggaggaagtaaggccca
 .

tgg

Exon 11 | Start: 964 | End: 981 | Length: 17

```
. . . . .
tgggtgagagactcagagcaggggtgctggctccccacggacaggggtgagtctctgtgcctt
. . . . .
gggcttctcctgccaccacctatctgtcagagcttaggagggataagaaaaagtaatgc
. . . . .
acacaggaggtcctgccagagcctccggagcagcatgggtgccccacaacacaggagtg
. . . . .
caagtgcggaaaatagggaggaagtaaaggcccatgggtgggtccaggtctttgaggga
. . . . .
aggtggccatacctctcatgtgccacctaccctttctccacccccaccctggagcagc
|911      |921      . . . . .
CAGTTTCCGGACCCCGAGgtgagtgcccaacatagcacagcaccctcatcaccctaatt
S F R T P R
```

```
. . . . .
ctgccaggagcccctccagatccccagcccctcttcagctcccttggccccagtcctgc
. . . . .
ctggcctgggacccagagcagctccagctgccccaccagaagggaaggggcagagggaca
. . . . .
gggggtggctacagctccttgggtcctgggcccaggaagccccgccagggggctgcagtct
. . . . .
tgcccccgccacagcctagactgcgggacacagggaactcgaagctggaggcaccagcag
. . . . .
aggaggacgtgtgggaga
```

Exon 12 | Start: 982 | End: 1145 | Length: 163

.
tctccacccccaccctggagcagcagtttccggaccccgaggtgagtgcccaacatag

.
cacagcacccctcatcacccctaattctgcccaggagcccctccagatccccagcccctctt

.
cagctcccttggcccccagtcctgctggcctgggacccagagcagctccagctgccccca

.
ccagaagggaaggggcagagggacaggggtggctacagctccttggtcctggggccagga

.
agccccgccagggggctgcagtcctgccccggccacagcctagactgcgggacacagg

 |931 |941 |951 |961 |971 |981
GGACTCGAAGCTGGAGGCACCCAGCAGAGGAGGACGTGTGGGAGATCCTACGGCAGGCACC
D S K L E A P A E E D V W E I L R Q A P
 |311 |321

 |991 |1001 |1011 |1021 |1031 |1041
CCCATCTGAGTACGAGCGCATCGCCTTCCAGTACGGCGTCACTGACCTGCGCGGCATGCT
P S E Y E R I A F Q Y G V T D L R G M L
 |331 |341

 |1051 |1061 |1071 |1081
AAAGAGGCTCAAGGGCATGAGGCGGATGAGAAGAAGAGCACAGgttagcccttcctcag
K R L K G M R R D E K K S T A
 |351 |361

.
aggggagaggagagggcacaggctagcccttccttacacaggagaggagagggcataggt

.
tagcccttccccacaggggagaggagagggcacaggcttagccccccacctcgtccacata

.
catggaaagagcggagtcgggcttagcacagagactcacaggaaagaagagcccaggtta

.
accctccttgtagtaaaaagccaagaatgccaggttagcccttaccacagagatag

.

aagagaagagcaaaagttaggccaggacagccacaaggaaaagg

Exon 13 | Start: 1146 | End: 1278 | Length: 132

```
. . . . .
ccagctactcgggaggccgaggcaggagaatcacttgaacctgggaggcagaggttgacag

. . . . .
tgagccaagatggcgccattgcactccagcctggccaacagagcaagactctgtccaaaa

. . . . .
aacaacaaacagacaaacaaacaaaaagaaatagagacacagagaagtggaagc

. . . . .
ggggcggcacagaggggattggagggggggacctgggcccagccacagccacagtagct

. . . . .
tggcctgggggagcaggggtgcgggcgggtggggtggccggggctgaggggtgggtgctcagc

|1091      |1101      |1111      |1121      |1131      |1141
CCTTTCAGAAGAAGCTGGAGCCGCTACCGGTGAGCAAAGGCCACAAGATCCGGCTGA
  F  Q  K  K  L  E  P  A  Y  Q  V  S  K  G  H  K  I  R  L  T
           |371                      |381

|1151      |1161      |1171      |1181      |1191      |1201
CCGTGGAAGTGGCTGACCATGACGCTGAGGTCAAATGGCTCAAGAATGGCCAGGAGATCC
  V  E  L  A  D  H  D  A  E  V  K  W  L  K  N  G  Q  E  I  Q
           |391                      |401

|1211      |1221      . . . . .
AGATGAGCGGCAGgtgcagcctgggggtggggaggggggctcgggtggaggtggggacccc
  M  S  G  S

. . . . .
catagccttgccctcctgcccctctccacatgcgtatctctgactcggtgtggctctcagc

. . . . .
cccatctctctgggcctaatttcccatccttttgctcctgccggtccctctctctctctc

. . . . .
cttttgctcgggctcacttcctcccgtcgggaacacttcaacggccccttctgttctac
```

.
 agcaagtaagttcccctctggatggcttggggtggggggcacagggattatcatggggcg
 . . .
 cactgggcccga

Exon 14 | Start: 1279 | End: 1281 | Length: 2

.
 tggaactggctgaccatgacgctgaggtcaaatggctcaagaatggccaggagatccaga

 tgagcggcaggtgcagcctggggtggggaggggggctcgggtggaggtggggacccccat

 agccttgcctcctgcccctctccacatgcgtatctctgactcgggtgtggctctcagcccc

 atctctctgggcctaatttcccatccttttgctcctgccggtccctctctctctcctt

 ttgtctcgggctcacttcctcccgtcgggaacacttcaacggccccttctgttctacagc

 CAAgtaagttcccctctggatggcttggggtggggggcacagggattatcatggggcgca
 K

.
 ctgggcccggagggtgtccgcagctttcctgccacttccctgcggccccaccaggt

 catctttgagtccatcgggtgccaaagcgtaccctgaccatcagccagtgtcattggcgga

 cgacgcagcctaccagtgcgtgggtgggtggcgagaagtgtagcacggagctctttgtgaa

 aggtgggcctgggacctgaggatgtgggaacctggggaggagatggcctcaggggagcca
 .

acc

Exon 15 | Start: 1282 | End: 1406 | Length: 124

```
. . . . .
catagccttgccctcctgccctctccacatgCGtatctctgactcgggtgtggctctcagc
. . . . .
cccatctctctgggcctaatttcccatccttttgctcctgccggtccctctctctctctc
. . . . .
cttttgctcgggctcacttctcccgctcgggaacacttcaacggccccttctgttctac
. . . . .
agcaagtaagttcccctctggatggcttgggggtggggggcacagggtattatcatggggcg
. . . . .
cactgggcccggagggtgtccgcagctttcctgccacttccctgcggccccaccagg

      |1231      |1241      |1251      |1261      |1271      |1281
GTACATCTTTGAGTCCATCGGTGCCAAGCGTACCCTGACCATCAGCCAGTGCTCATTGGC
Y I F E S I G A K R T L T I S Q C S L A
      |411                      |421

      |1291      |1301      |1311      |1321      |1331      |1341
GGACGACGAGCCTACCAGTGCGTGGTGGGTGGCGAGAAGTGTAGCACGAGCTCTTTGT
D D A A Y Q C V V G G E K C S T E L F V
      |431                      |441

      |1351. . . . .
GAAAGgtgggcctgggacctgaggatgtgggaacctggggaggagatggcctcaggggag
K E
      |451

. . . . .
ccaaccctcatgctcaccctgcctggacagagccccctgtgctcatcacgcgcccttgg
. . . . .
aggaccagctgggtgatggtggggcagcgggtggagtttgagtgtgaagtatcggaggagg
. . . . .
gggcgcaagtcaaattggtgagttccagaagcacggggcatgggtgttgggggcatctgcc
```

.
cagaagaggccacagcacttgccacccacccacccggctaggctgaaggacggggtggag
.
ctgac

Exon 16 | Start: 1407 | End: 1512 | Length: 105

.
ggtggggggcacagggattatcatggggcgccactgggcccggaggggtgtccgcagcttt
.
cctgccacttcctgcgccccaccagggtacatctttgagtccatcggtgccaagcgt
.
accctgaccatcagccagtgctcattggcggacgacgcagcctaccagtgctgggtgggt
.
ggcgagaagtgtagcacggagctctttgtgaaaggtgggcctgggacctgaggatgtggg
.
aacctggggaggagatggcctcaggggagccaaccctcatgctcaccctgcctggacaga
|1361 |1371 |1381 |1391 |1401 |1411
AGCCCCCTGTGCTCATCACGCGCCCTTGGAGGACCAGCTGGTGATGGTGGGGCAGCGGG
P P V L I T R P L E D Q L V M V G Q R V
|461 |471
|1421 |1431 |1441 |1451 . .
TGGAGTTTGAGTGTGAAGTATCGGAGGAGGGGCGCAAGTCAAATGgtgagttccagaag
E F E C E V S E E G A Q V K W
|481
.
cacggggcatgggtgttgggggcatctgcccagaagaggccacagcacttgccacccacc
.
caccgggctaggctgaaggacggggtggagctgacccgggaggagaccttcaaataccgg
.
ttcaagaaggacgggcagagacaccacctgatcatcaacgaggccatgctggaggacgcg

.
gggcactatgcactgtgcactagcgggggccaggcgctggctgagctcattgtgcagggt
.
gagcctggctgggggggcacatgaggctttagggttgaccctc

Exon 17 | Start: 1513 | End: 1679 | Length: 166

.
tagcacggagctctttgtgaaagtgggcctgggacctgaggatgtgggaacctggggag
.
gagatggcctcaggggagccaacctcatgctcaccctgcctggacagagccccctgtgc
.
tcatcacgcgcccttgaggaccagctggtgatggtggggcagcgggtggagtttgagt
.
gtgaagtatcggaggagggggcgcaagtcaaattggtgagttccagaagcacggggcatgg
.
gtgttgggggcatctgcccagaaggccacagcacttgccacccacccacccggctagg

1461	1471	1481	1491	1501	1511
GCTGAAGGACGGGGTGGAGCTGACCGGGAGGAGACCTTCAAATACCGTTCAAGAAGGA					
L K D G V E L T R E E T F K Y R F K K D					
	491			501	
1521	1531	1541	1551	1561	1571
CGGGCAGAGACACCACCTGATCATCAACGAGGCCATGCTGGAGGACGCGGGGCACTATGC					
G Q R H H L I I N E A M L E D A G H Y A					
	511			521	
1581	1591	1601	1611	1621	.
ACTGTGCACTAGCGGGGGCCAGGCGCTGGCTGAGCTCATTGTGCAGGgtgagcctggctg					
L C T S G G Q A L A E L I V Q E					
	531			541	

.
ggggggcacatgaggctttagggttgaccctcagccccacccacctagccctgta

.
 ggggagcaggcaaacctgggctcaaggcctctgtgaccttgggcctttgacagcctaaac

 ctcaccttctcatctctaaaatgacgatgctgaggtgaccgctccagagggtactgaga

 gggtcatacgggcctgggtgagcatcaccaccctcagacacttgaggttccttatgtgca

 ctgcaccatcacaggcaaacatggcacacacaggcacacgtgttttc

Exon 18 | Start: 1680 | End: 1845 | Length: 165

.
 acagcctaaacctcatccttctcatctctaaaatgacgatgctgaggtgaccgctccaga

 ggggtactgagagggtcatacgggcctgggtgagcatcaccaccctcagacacttgaggtt

 ccttatgtgcactgcaccatcacaggcaaacatggcacacacaggcacacgtgttttcac

 atgcccatgcaccagacacgtgcgcaccagcgcccatggggccacacgccctccaca

 gggattcacgccacaccacacacccctcccgagctcaatggctctgccctgccctgcaga

1631	1641	1651	1661	1671	1681
AAAAGAAGCTGGAGGTGTACCAGAGCATCGCAGACCTGATGGTGGGCGAAAGGACCAGG					
K	K	L	E	V	Y
Q	S	I	A	D	L
M	V	G	A	K	D
Q	A				
			551		
				561	

1691	1701	1711	1721	1731	1741
CGGTGTTCAAATGTGAGGTCTCAGATGAGAATGTTCTGGGGTGTGTGGCTGAAGAATGGGA					
V	F	K	C	E	V
S	D	E	N	V	R
G	V	W	L	K	N
G	K				
			571		
				581	

1751	1761	1771	1781	.	.
AGGAGCTGGTGGCCGACAGCCGCATAAAGGTGTCCCACATCGGGCGgtgagtggtgcaggg					
E	L	V	P	D	S
R	I	K	V	S	H
I	G	R			

| 591

.
caggtggatgggacaggtggagactgagatggagacagagagacacagggagaaacag
.
agagagagagataaagacaggtggacagagaggcagatgcacagagacaggacagagact
.
gagacagagacccacagagaggagaaacagacagacccaaaaagacaaagagacagaaa
.
gacagaaatagttctatagagacagaaagatatgcacaggagggcacacacataggagag
.
ttcgtcagagacagagaagaacagagggacagagacaaagaggcag

Exon 19 | Start: 1846 | End: 1952 | Length: 106

.
gggctggccgtgctgggccaagtgcacagagattaatgagaccagcccctgcccagtc
.
tccaagggccagccaaggagatgctttgatgtagaaatcacttttacgtgcctacctc
.
tgaaggcacattaaaaagctggaaaattagataatatagaaaaaaaaaggcatttttaa
.
aatcagaataccaacaagccaggacaaggtgagggcctcctgggaccctggctgggggtat
.
ctggcaaggccaggggtgtgtggcccagtggggtcccctgagccactgctcccctgcagg

|1791 |1801 |1811 |1821 |1831 |1841
GGTCCACAAACTGACCATTGACGACGTCACACCTGCCGACGAGGCTGACTACAGCTTTGT
V H K L T I D D V T P A D E A D Y S F V
|601 |611

|1851 |1861 |1871 |1881 |1891 . .
GCCCCAGGGCTTCGCCTGCAACCTGTCAGCCAAGCTCCACTTCATGGgtgagcctgctcc
P E G F A C N L S A K L H F M E

|621

|631

.
agggtagggtgggtcggggcagtggggccaggagcccctgtcactgggccctgcctttgc
.
ccccgtgctacttgctcttccttctcttgagaggtcaagattgacttcgtaccaggca
.
gggtaagtcttggggcccctgagtcttggttctgctcactttcccgaacccacccacgc
.
aggcctcccctccactcacagaggaagagcaaggatcaaaagtgggggtcctggggccc
.
agcttcagctttgccactcatgacatgggtcaattataatctctgt

Exon 20 | Start: 1953 | End: 1982 | Length: 29

.
gggcctcctgggaccctgggtgggtatctggcaaggccaggggtgtgtggcccagtgagg
.
gtcccctgagccactgctcccctgcagggtccacaaactgaccattgacgacgtcacacc
.
tgccgacgaggctgactacagctttgtgcccagggttcgcctgcaacctgtcagccaa
.
gctccacttcatgggtgagcctgctccagggtagggtgggtcggggcagtgggggccagga
.
gcccctgtcactgggccctgcctttgccccgtgctacttgctcttccttctcttgcaga

|1901 |1911 |1921
AGGTCAAGATTGACTTCGTACCCAGGCAGGgtaagtcttggggcccctgagtcttggttc
V K I D F V P R Q E
|641

.
tgctcactttcccgaacccacccacgcaggcctcccctccactcacagaggaagagca

.
 ggtgtgtggaaccagccaagtgctaggacctgctgcacacccacccacatgtgcacgcc

 ctgctgttggtacctccatgggagagactggtcagggggcaggcaaggtgggcagtgtgg

 gtcagggggtggaagaagcagcagaggggcgcttccaggctgagtcagctcctctgctcc

 ctacttcctcctgcccctgttcccagggaataaggccccagccaggccagccccagatg

 cccagaggacacaggtgac

Exon 22 | Start: 2123 | End: 2203 | Length: 80

.
 ctatctctggggaccctgctcccactgtgatctggcagaaggctatcacgcaggtactgt

 ggggtccctcctcagtcctcccatctataagatgggtgtgtggaaccagccaagtgctagg

 acctgtgcacacccacccacatgtgcacgccctgctgttggtacctccatgggagaga

 ctggtcagggggcaggcaaggtgggcagtggtgggtcagggggtggaagaagcagcagagg

 ggcgcttccaggctgagtcagctcctctgctccctacttcctcctgcccctgttcccagg

2071	2081	2091	2101	2111	2121
GGGAATAAGGCCCCAGCCAGGCCAGCCCCAGATGCCCCAGAGGACACAGGTGACAGCGAT					
G N K A P A R P A P D A P E D T G D S D					
691			701		

2131	2141
GAGTGGGTGTTTGACAAGAAGGtgagtgagactgaggtcaggaggaggctcgtttctt		
E W V F D K K		

|711

.
tcacacactttctacctacgtggtgccgagcccttggcgaggtctccatggaggtgccaca
.
cttggccgggtgtgttgctgccccagcagggtccctgtggggccctcacacctcaggca
.
gagggtctctgtgaagtgtgctgatggccatcacaaggatgtggacaccctctcattgcc
.
aggaagccctcatgactgggctgctccctggctcccttcacctaagctgaccttgacct
.
tgaccttgctccctctcaa

Exon 23 | Start: 2204 | End: 2363 | Length: 159

.
gggtcttgctcctgcctggcactgttggttcttctgaaggctggggctctgaggggtcct
.
catgatagctcatctgagaggacagggtggttgccccagggtcccgtgacaaagctagaacc
.
cgagcccctgccctcagtcggtgccacagagatgattttgaactagatgctgacgtggat
.
gcagtcttcccacaggctgtgttcccccatggacccccgggacatctggctgttggcgg
.
aggctgcaagggcctctgggggtctgacttggatctcaccccaactctgcacccccccagc

2151	2161	2171	2181	2191	2201
CTGCTGTGTGAGACCGAGGGCCGGGTCCGCGTGGAGACCACCAAGGACCGCAGCATCTTC					
L	L	C	E	T	E
	G	R	V	R	V
			E	T	T
			K	D	R
			S	I	F
	721			731	

2211	2221	2231	2241	2251	2261
ACGGTCGAGGGGGCAGAGAAGGAAGATGAGGGCGTCTACACGGTCACAGTGAAGAACCCT					
T	V	E	G	A	E
	K	E	D	E	G
		V	Y	T	V
		T	V	T	V
			K	N	P

|741 |751
 |2271 |2281 |2291 |2301 . . .
 GTGGGCGAGGACCAGGTCAACCTCACAGTCAAGGTCATCGgtgaggccggccgggggtcca
 V G E D Q V N L T V K V I D
 |761

.
 agctggagaacacagaggggcagccccaaggaggggcccatccgttcgctcattcagccac

 tcgacaaacatcacgggcatgctccctgagccgagcggcaacaggacaggtttttctgcc

 caaaaggagccccgctctgggggagatggaggcagatgcatccagcagatttctgcgac

 actgctgtacatgagccatgtccagagtgccgtgggagcactgagcagagagccatccct

 gtgcctgggggtgatgccttttaggaggctgagaagatggt

Exon 24 | Start: 2364 | End: 2468 | Length: 104

.
 caggacaggggtgaatatgggcagtgagaagccttaaagggttgacggagggctggcgac

 atgatcagaaatgcatcctgttgagaccagcctggacaacacagtgagactccatatca

 ctaaaaaaaaaaaaaaaaaaaggaaaagaagaagaatgcattctagaaagatctcttt

 ggatctgggggtggtgggggcagcctgtggcggttagttggagtgggaaggggacgagca

 acgttactcaaggccctgagcggggcagggtgatgtgggtccatcccaccccatccaga
 |2311 |2321 |2331 |2341 |2351 |2361
 ACGTGCCAGACGCACCTGCGGCCCAAGATCAGCAACGTGGGAGAGGACTCCTGCACAG
 V P D A P A A P K I S N V G E D S C T V

|771 |781
 |2371 |2381 |2391 |2401 |2411 . . .
 TACAGTGGGAGCCGCTGCCTACGATGGCGGGCAGCCCATCCTGGgtgagtgaaggga
 Q W E P P A Y D G G Q P I L G
 |791 |801

.
 ccggatggaggtgtgagggcgccaaacagatccgagggaaggtggtgtggggatgcctgg

 gttccagaccagagctgccacctcccctgagccaggctacatcctggagcgcaagaagaa

 gaagagctaccggtggatgcggctgaacttcgacctgattcaggagctgagtcatgaagc

 gcggcgcatgatcgagggcgtggtgtacgagatgcgcgtctacgcggtcaacgccatcgg

 catgtccaggcccagccctgcctcccagcccttcatgcctatcgg

Exon 25 | Start: 2469 | End: 2657 | Length: 188

.
 agttggagtgagggaaggggacgagcaacgttactcaaggccctgagcggggcagggtgat

 gtgggtccatcccaccccatccagacgtgccagacgcacctgcggccccaagatcagca

 acgtgggagaggactcctgcacagtacagtgggagccgcctgcctacgatggcgggcagc

 ccatcctgggtgagtgcaagggcaccggatggaggtgtgagggcgccaaacagatccgag

 ggaaggtggtgtggggatgcctgggttccagaccagagctgccacctcccctgagccagg

|2421 |2431 |2441 |2451 |2461 |2471
 GCTACATCCTGGAGCGCAAGAAGAAGAAGAGCTACCGGTGGATGCGGCTGAACTTCGACC
 Y I L E R K K K K S Y R W M R L N F D L

|811 |821
 |2481 |2491 |2501 |2511 |2521 |2531
 TGATTGAGGAGCTGAGTCATGAAGCGCGGCATGATCGAGGGCGTGGTGTACGAGATGC
 I Q E L S H E A R R M I E G V V Y E M R
 |831 |841
 |2541 |2551 |2561 |2571 |2581 |2591
 GCGTCTACGCGGTCAACGCCATCGGCATGTCCAGGCCAGCCCTGCCTCCCAGCCCTTCA
 V Y A V N A I G M S R P S P A S Q P F M
 |851 |861
 |2601
 TGCCTATCGGtgagcctgcctggcctggctcctgcccccgccccctcccagttaaaaac
 P I G

 ctccaataatagcagggtgctctgcaggcagccatgctagacactcacatccacagtctcc

 tttcatcctcgactggggatactcagccgcattttacagatgaggaaacaggctccaagc

 agttaaatagacctgcttgagatctcccagctggttgggtggagctgactctcacactac

 gccgaccctagttcacgtttcaagcctctctttccatgtctacaaaatgggaataatga
 . .
 cactgccta

Exon 26 | Start: 2658 | End: 2792 | Length: 134

.
 tcaccatgttggccaggctggtcctgaactcctgacctcaggtgatcctccacctcggc

 ctcccaaagtgtgggattacaggcgtgagccaccgtgcctggctgctgttgctgtttgt

 ttttaagccaatctacagacatgtcttgtaacagggaacaaatattccttaaagtggcca

```

. . . . .
aaagccagctgaacaggaagtgtcccccctatgtgaccagtgggcagttcagagtctagggc

. . . . .
atggatctccagcttccccaggcttgctcagaccctctctgacctctcctctgtcccagg

      |2611      |2621      |2631      |2641      |2651      |2661
GTCCCCCAGCGAACCCACCCACCTGGCAGTAGAGGACGTCTCTGACACCACGGTCTCCC
  P  P  S  E  P  T  H  L  A  V  E  D  V  S  D  T  T  V  S  L
      |871                      |881

      |2671      |2681      |2691      |2701      |2711      |2721
TCAAGTGGCGGCCCCCAGAGCGGTGGGAGCAGGAGGCCTGGATGGCTACAGCGTGGAGT
  K  W  R  P  P  E  R  V  G  A  G  G  L  D  G  Y  S  V  E  Y
      |891                      |901

      |2731
ACTGCCCAGAGGGCTgtgagtggtccccgcccccaacccccctccccaaaggaagaacatg
  C  P  E  G  C
      |911

. . . . .
ctcaccttgccattgagcagattcacctgtagtcaagtttttaggccacttttgccga

. . . . .
aagttgaggacaccagagaaatatctgtcctgttttcagaagtaaaaagcttgccctag

. . . . .
tgaaaaacaaatgcagagtaaagctgactgtaacacttctttgagcagtgcgaaatcagc

. . . . .
aactacattttaaaaacatatattaaggccaggcgcatggcttacgcctgtaatcccagc

. . . . .
actttgggaggccaa

```

Exon 27 | Start: 2793 | End: 2960 | Length: 167

```

. . . . .
ctaaaaatacaaaattagccgggtgtgggtggggcacctgtgatcccagctacgcggga

```

.
 ggctgaggcaggagaatcacttgaactcgggaggcagaagttgcggtgagccaagatcat

 gccattgcactccagcctgggagacaagagcgaaactccatctcaaaaataaataaaca

 ataaaaatttaaaaaacatatttaaatcctggagattcctatcagaggagtgggcagt

 ggagtggggtgtcagtggtagacacagcctgtggccttgccctccccctccccacccccagg
 |2741 |2751 |2761 |2771 |2781 |2791
 GCTCAGAGTGGGTGGCTGCCCTGCAGGGGCTGACAGAGCACACATCGATACTGGTGAAGG
 S E W V A A L Q G L T E H T S I L V K D
 |921 |931
 |2801 |2811 |2821 |2831 |2841 |2851
 ACCTGCCCACGGGGGCCGGCTGCTTTCCGAGTGCGGGCACACAATATGGCAGGGCCTG
 L P T G A R L L F R V R A H N M A G P G
 |941 |951
 |2861 |2871 |2881 |2891 |2901 . .
 GAGCCCCTGTTACCACACGAGCCGGTGACAGTGCAGGAGATCCTGCgtgagtggccct
 A P V T T T E P V T V Q E I L Q
 |961

 ttgtgcagtcacaagaccgccattgacaccccaggcccttggtgtccagtggaggtggg

 gacagttggggaggcccagaatgctctgcccagaacgctgggcagagacaggaggggtg

 gagccatcgtccatgcgctaggcctagggaagaaagtgcagagagggtggccaggcacagt

 ggctcaagcctgtaatcccagcactttaggaggccaaggcaggcagatcacttgaggtca

 ggagtttgagaccagcctggccaacatagtgaaccctgtctctacta

Exon 28 | Start: 2961 | End: 3049 | Length: 88

.
 atagggtgtcaaagcccaggcttacaccctggctctatgacttactagctgtgtgacttca

 gtcaagttgcttacctctctgatccctgccttttgaagtggtagaggctcggggaagcca

 gctgggcttgggcagcctggagttgctgtgttagcaggagctaaaggaggcgcagggccc

 agcaggcagcttttttcttagctgcagctctctgggccttgtctcaagggaggttggagc

 tgtggagcccctcagagctgtggcgggcccctcacttagctacccactctataccacaga
 |2911 |2921 |2931 |2941 |2951 |2961
 AACGGCCACGGCTTCAGCTGCCCAGGCACCTGCGCCAGACCATTGAGAAGAAGGTCGGGG
 R P R L Q L P R H L R Q T I Q K K V G E
 |971 |981
 |2971 |2981 |2991
 AGCCTGTGAACCTTCTCATCCCTTCCAGgtgggactggcccccttccctgtccccagg
 P V N L L I P F Q
 |991

 ggagagaggctatagtgtgttgggtcccatccagtggactgatgtctcagggctggcctga

 tctgaggtaccagaggctggggtggcgccggcccttggagtgatccaggttcagggtta

 agcttttctcccctcagggcaagccccggcctcaggtgacctggaccaaagaggggcag

 cccctggcaggcgaggaggtgagcatccgcaacagccccacagacaccatcctgttcatc

 cgggccgctcgccgctgcattcaggcac

Exon 29 | Start: 3050 | End: 3245 | Length: 195

.
 tgtggcgggccctcacttagctaccactctataccacagaacggccacggcttcagct

 gcccaggcacctgcgccagaccattcagaagaaggtcggggagcctgtgaaccttctcat

 ccccttccaggtgggactggcccccttcctgtccccaggggagagaggctatagtgtg

 ttgttcccatccagtggactgatgtctcagggctggcctgatctgaggtaccagaggctg

 ggggtggcgccggcccttggagtgatccaggttcagggttaagcttttcctcccctcagg
 |3001 |3011 |3021 |3031 |3041 |3051
 GGCAAGCCCCGGCCTCAGGTGACCTGGACCAAAGAGGGGCAGCCCCTGGCAGGCGAGGAG
 G K P R P Q V T W T K E G Q P L A G E E
 |1001 |1011
 |3061 |3071 |3081 |3091 |3101 |3111
 GTGAGCATCCGCAACAGCCCCACAGACACCATCCTGTTTCATCCGGGCCGCTCGCCGCGTG
 V S I R N S P T D T I L F I R A A R R V
 |1021 |1031
 |3121 |3131 |3141 |3151 |3161 |3171
 CATTGAGGCACTTACCAGGTGACGGTGCGCATTGAGAACATGGAGGACAAGGCCACGCTG
 H S G T Y Q V T V R I E N M E D K A T L
 |1041 |1051
 |3181
 GTGCTGCAGGTTGTTGgtgcgtggccaaggcctccttgagcccccttgtttccttcct
 V L Q V V D
 |1061

 gggctgggctgctggggccaagggtggggccaggggacccaacccacagctcacatttct

 cagtccactgccccagcaggcctggccctggttggcaggggtggggtggtccctggagcc

 agtgacccccctgctcactgtcaggaggcgtggtgacccaactgggtctgtctccgcaga

.
caagccaagtcctccccaggatctccgggtgactgacgcctggggtcttaatgtggctct
.
ggagtggaagccacc

Exon 30 | Start: 3246 | End: 3385 | Length: 139

.
cattcaggcacttaccaggtgacggtgcgcattgagaacatggaggacaaggccacgctg
.
gtgctgcaggttggtggtgcgtggccaaggcctccttgagcccccttgttcccttcct
.
gggctgggctgctggggccaagggtggggccaggggaccaaccacagctcacatttc
.
cagtccactgccccagcaggcctggccctggttggcaggggtggggtggtccctggagcc

.
agtgacccccctgctcactgtcaggaggcgtggtgacccaactgggtctgtctcccgcaga
|3191 |3201 |3211 |3221 |3231 |3241
ACAAGCCAAGTCCTCCCCAGGATCTCCGGGTGACTGACGCCTGGGGTCTTAATGTGGCTC
K P S P P Q D L R V T D A W G L N V A L
|1071 |1081

|3251 |3261 |3271 |3281 |3291 |3301
TGGAGTGGAAGCCACCCAGGATGTGGCAACACGGAGCTCTGGGGGTACACAGTGCAGA
E W K P P Q D V G N T E L W G Y T V Q K
|1091 |1101

|3311 |3321
AAGCCGACAAGAAGACCATGgtgagcccagggtctggggtccccacgtgcaccctgccta
A D K K T M

.
ggcccggcagaccagggccgcagctacccttcactgtcctcaccgtggacccctcacct
.

ccctctgctgatctgaatccctccatagtaggggtggagatgccaagggcaccaggaga

 ggctctcggcatcaggaagggcctggcccagagatgcctcccctccctccctgccccag

 gagtgggttcaccgtcttggagcattaccgccgcacccactgcgtgggtgccagagctcatc

 attggcaatggctactactt

Exon 31 | Start: 3386 | End: 3545 | Length: 159

.
 ggagtggaagccaccccaggatgtcggcaacacggagctctgggggtacacagtgcagaa

 agccgacaagaagaccatggtgagcccagggtctgggggtcccccacgtgcaccctgcctag

 gcccggcagacccaggccgcagctacccttcactgtcctcacctggaccctcacctc

 cctctgctgatctgaatccctccatagtaggggtggagatgccaagggcaccaggagag

 gctctcggcatcaggaagggcctggcccagagatgcctcccctccctccctgccccagg

3331	3341	3351	3361	3371	3381
GAGTGGTTCACCGTCTTGGAGCATTACCGCCGCACCCACTGCGTGGTGCCAGAGCTCATC					
E W F T V L E H Y R R T H C V V P E L I					
1111			1121		

3391	3401	3411	3421	3431	3441
ATTGGCAATGGCTACTACTTCCGCGTCTTCAGCCAGAATATGGTTGGCTTTAGTGACAGA					
I G N G Y Y F R V F S Q N M V G F S D R					
1131			1141		

3451	3461	3471	3481	.	.	.
GCGGCCACCAAGGAGCCCGTCTTTATCCCAGACCAGgtgctgtaccctcattcttc						
A A T T K E P V F I P R P G						
1151			1161			

.
 caaccaggggctggggcagggaggctgtgggaacagggagaggggcctagctttgtgtgg

 ccctctcgggtaccaagtccctgtcaccaacaggcatcacctatgagccaccaactataag

 gccctggacttctccgaggccccaagcttcacccagcccctggatgaaccgctcggatcatc

 gctgggtacactgctatgctctgtgtgtgtccgggtagccccaaggtagggaacttt

 aggcgctgggtccaggccgaccaggaggcagggtcacagg

Exon 32 | Start: 3546 | End: 3682 | Length: 136

.
 gatgcctcccctccctccctgccccaggagtgggtcacctcttgagcattaccgccg

 caccactgcgtgggtgccagagctcatcattggcaatggctactacttccgcgtcttcag

 ccagaatatggttggcttttagtgacagagcggccaccaccaaggagcccgtctttatccc

 cagaccaggtgctgtaccctcattcttccaaccaggggctggggcagggaggctgtggga

 acaggagaggggcctagctttgtgtggccctctcgggtaccaagtccctgtcaccaacagg

3491	3501	3511	3521	3531	3541
GCATCACCTATGAGCCACCCA	ACTATAAGGCCCTGGACTTCTCCGAGGCCCAAGCTTCA				
I	T	Y	E	P	P
		N	Y	K	A
			L	D	F
				S	E
				A	P
				S	F
				T	
		1171			1181

3551	3561	3571	3581	3591	3601
CCCAGCCCTGGTGAACCGCTCGGTCATCGCGGGCTACACTGCTATGCTCTGCTGTGCTG					
Q	P	L	V	N	R
	S	V	I	A	G
		Y	T	A	M
			L	C	C
			A	V	
		1191			1201

.
 ccgttgctcctcggccaagcacctgccctggctgcaagggcacggaccctgccacgcccag

 atgggcaatagcttcagaaggctgggaggacacagtgacatggcctcctcttctgcagt
 |3821 |+1 |+11 |+21
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 P Q *

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Exon 35 | Start: 3907 | End: 4217 | Length: 310

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+31	+41	+51	+61	+71	+81
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+91	+101	+111	+121	+131	+141
TACTGTTGGATGTATGTGTGACAAGTGTGTCTCCTGTGCTGCGATGGGGGATCAGCAGGG					
+151	+161	+171	+181	+191	+201
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+211	+221	+231	+241	+251	+261
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CCTTTCTGGCCTGCTATGTCTTCCAATGTTTATTGGGCAATAAAAGATAAGTGCAGTCA					
+331
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.
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