

44.15% identity.

[illegible]

68.36% identity.

[illegible]

seq1 = human eEF2
seq2 = mouse eEF2

55.32% identity.

```
-300
seq1      ggttttaatagaagtactgga--caacttgtaagctaatatcgttgctatggttctcggt
          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
seq2      tgacctacaaggttttcaagaatcatggtgtaagcaactgt-----gtt
-300

seq1      ctgcgc-----taaaa-----cggcgctctttactttgtgcac-----ctgaa
          || || |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
seq2      ctgaggaatctatgtttaaaaacccatccgtggatccttgccccagggccagagactgag

                                <-SP1-->                                -150
seq1      cactgcacaccgagggcg-----accaccgcccccgagatgccagcttctattctaga
          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
seq2      ctagccacgccccggcgcgcgcgcagccactcccacggcagttcaagtgttaagtcccaa

                                <-SP1--->                                -100
seq1      gcgccgcgcgcgcgcgaatgggttaacggcggggggacacgcctccgtgcgcttgcg
          |||||  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
seq2      agaccgcgc-----tctgtgcatgcgc-----agaccgcgtccacagctggctccta

                                <-SP1->                                -60                                <-SP1->
seq1      ggcgtcccttcgccccgccttcgcagcgcagtcacatgacccgcccacccggcggtccgcc
          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
seq2      gccaacccggcgcgagcagcaccgcgcgcgtcacgtgacgcacccaaccggcggtcgacc

                                -25                                --YY1--                                +30
seq1      tataaaaagctgagtggtgacgtcagcgttCTCTTCCGCCGTCGTCGCCGCCATCCTCGG
          |||||  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
seq2      tataaaaaggccgggcggtgacgtcagcgttCTCTTCCGCCGAGCCGCCGCCATCGTCGG
          -25                                +30

                                --YY1--                                +80
seq1      CGCGACTCGCTTCTTTTCGGTTCTACCTGGGAGAATCCACCGCCATCCGCCACCATGgtga
          ||||  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
seq2      CGCGCTTCCCT--GTTACCTCTGACTCTGAGAATCCGTGCGCCATCCGCCACCATGgtga
                                +80

                                +100
seq1      gtaaccctg--c
          ||  ||  |
seq2      gtctcctcggct
                                +100
```

65.73% identity.

seq1 ATTATTAAAAAATCCAAAAAAATCTAAAAAAAT +100

seq2 ATTATTAAAAAATCCAAAAAAATCTAAAAAAATC +100

seq1 = human hnRNPA1
seq2 = mouse hnRNPA1

71.14% identity.

```
          -300
seq1      aaaaagatgttaaacacccaaggtagattcaaatgtgaatgattggtcggttgccaatc
          |||  || | ||| ||  |  || ||||| || | ||| |||  ||| |||||
seq2      aaaggcatttaaaagacgtga-atacattcaaatataagtgactggctagtttagccaatc
          -300
```

```
seq1      agactggttaacaataacattactcgggaaccaatggactccaaggggtggagacggcgt
          |   | |||  ||| ||  || |||  |   ||||| ||||| ||| | | |
seq2      aatgcgattaaggataagatcccttggggcacagtgactcaaagggcgagtgctgaat
                      -200  ←SP1→
```

```
seq1      agaacgaccgaaggaatgacgttacacagcaatgtggcaccacaggccaatagcaggggg
          ||||| || | | ||| ||| |  |||  | | | ||| ||||| |  || |
seq2      agaacgccc aaacggatgccgtttcttagcagggcgctcttcacgggccaatggtgggagg
```

```
                      -SP1--          -70
seq1      aagcgatttcaagtatccaatcagagctgttccagggcggagtgctaccaatgccgaaagc
          |   ||||| | ||||| |||  ||||| ||||| ||||| ||| |||
seq2      gaataatttcaaattcctaataagactcaagtaagggcggagtgctaccaataaccgagagc
```

```
          --SP1--          -40          -25
seq1      gaggaggcggggtaaaaaagagagggcgaaggtaggctggcagatacgttcgtcagcttg
          ||||| ||||| ||| |  ||||| ||||| |||  ||||| ||| |
seq2      gaggaggcgggataaaagggcga-gcagaaggtaggctggcgggcacgttcggtatcgta
                      ←SP1→
```

```
seq1      ctCCTTTCTGCCCCGTGGACGCCGCCGAAGAAGCATCGTTAAAGTCTCTCTTCACCCTGCC
          ||||| ||| | ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
seq2      ttCCTTTCTGCTCTTTGACGCTGCCGAGGAAGCATCGCTGAAGGCTCTCGTAACCTCTACC
```

```
                      +100
seq1      GTCATGTCTAAGTCAGAGgtgagttaggcgcgctttcc--ca
          ||||| ||||| ||||| ||| |  ||||| ||| |
seq2      GTCATGTCTAAGTCCGAGgtaagttggatgcgctttgcagct
                      +100
```

seq1 +96
 ||| TTTATCTCCGTC CGCCTTCTCTCCTACCTAAGTGC GTGCCGCCACCCG
 seq2 +96
 TT----TCCGTC CGGCTTCTCCCACACCGAAGTGC GCGCCTCCA-CCT

seq1 = human Tpt1 (P23)
seq2 = mouse Tpt1 (P23)

66.74% identity.

-300

seq1

tccgcttccccg-----ctccacccacccagggctagggagcgccccgagag--ttg

| | | | | | | | | | | | | | | | | |

seq2

tggccacgcccggcgggcgactcaagcgtcc--ggccatcggtcgccgcaagtccttc

-300

←Sp1→

←--Sp1--→

-200

seq1

gcctcctccacgctgcgcgcgcacctccccgccccacccctaccgctggcgtgcca

| | | | | | | | | | | | | | | | | |

seq2

ccgtcccagcatgccccggcgcgactatccgcacaccgccccggtgccccgcgcacca

←Sp1--→

seq1

gtggaacggagccttgtgtctccgcctcaagtccccggatgctcacctccccgactcgcc

| | | | | | | | | | | | | | | | | |

seq2

ggggcactccgcattgtgtcccagc--agagtccccggatgc--cctccccgggcccggc

-----Sp1-----

-100

<GABP

seq1

cccgtgtggccccgccccgcgcggctcttcgtgccacgtcacgcctgcgtcgcttcc

| | | | | | | | | | | | | | | | | |

seq2

cgggc-gtagccacgccccgcaccgccttgcgt-tcacgtcacgcgtgacgacagttcc

←Sp1->

>

-25

seq1

ggaggcgcagcggcgatgacgtagaggacgtgccctctatatgaggttggggagcggc

| | | | | | | | | | | | | | | | | |

seq2

gggggagccgcggacggtgacgtagccgagcgtgccctctatatgaggttggggagcggc

seq1

tgagtcggcCTTTTCCGCCCCGCTCCCCCCTCCCCCGAGCGCCGCTCCGGCTGCACCGCG

| | | | | | | | | | | | | | | | | |

seq2

cgcgtcggcCTTTTCCGCCCCGCTCCCCCCTCCCCCGCGCGCCGCTCCGGCTGCACCGCG

+100

seq1

CTCGCTCCGAGTTTCAGGCTCGTGCT---AAGCTAGCGCCGTCGTC-----GTCTCC-

| | | | | | | | | | | | | | | | | |

seq2

CTCGCTTC-----CGCGCTGTCAGGCTAGCGCCGCCGTCCTCCAGCCGTCACCA

seq1

-

seq2

T

+100

55.14% identity.

```
-300  
seq1      ccc-----ccccttcccccatccccagagc ttttccttgacctgcgcg  
          ||              | ||   |||||  |||||  |||||  |||||  
seq2      ccggaaggaaatcagtcaccctcaccccgccccacccccagcgctttccttg-caggagc  
          <GABP>                <-SP1-->  
  
                               --SP1-- -200  
seq1      cccctcccctctctgctcttcctcctcagtcgggaggaggggcgggagcacggcatcacgt  
          |||||  |||  ||   |  |||||  ||    |||||  |||  |  ||  
seq2      cccctccc--ctcagcctgtactcctcagggaggcggaggggcg-----ggcctatcgt  
                              -200  
  
                        <-SP1->   <-SP1-> -140  
seq1      ggacg-gtcatgtctctgccacaatggcgaggaagggcggggaaaagggcg gacttaa  
          |  ||  |  ||   |||  ||||  |  |||  ||||  ||  |  |||  ||  
seq2      gcccgcgga--actccgcctc-cgggctctcggggcggtggccagagggaaagt tttg  
                  <SP1->                                -140  
  
seq1      ggggtgggaagaaggtgatactggatgagaggaagattgagggaggttagggggaggagc  
          |||  |||||  ||   ||||  |||  |||||  |  ||||  |||  |||  
seq2      tgggcctgaagaaggtggggct---tgaggaggagtctgagggcggtgtgaggggcgggggt  
                                          <-SP1-->  
  
                                         -25  
seq1      cgaagcggacgctgccgggagcgt-gcgtcgtgacgtcatcaaagaactcttatataca  
          |||  |||||  ||   |||  |  ||||  |||||  |||  |||||  |||  
seq2      ttaagtggacgcagcaagcagctttgcgtcttgacgtcacgaaga---ccttatatact  
                                             -25  
  
seq1      ggagcccaggcaccata-ctgtCTTTTCGAGGTAGGAGTCGACTCCTGTGAGgtatgttt  
          ||  |  |||  |  ||||  |  ||||  |||  |  |||  |||  |||||  
seq2      cga-ctcagccgcatctcagCCTTTCGGAGCTGTGCGGC-ATTCTGAGCAGgtatgcaa  
  
seq1      tatctttgcgaatgttgcggttttggggcgctccagcctttgtctgctaagggtcaccct  
          |  ||  ||  |  ||||  |           |||  |  |  |||  |||  |  |||  
seq2      ttct-ctgagtatgttatg-----gcttcgggccttgagggtgaag---cact  
  
                          +100  
seq1      g-----a  
          |  
seq2      ggaagctggtgggatcc  
                      +100
```

43.21% identity.

-300

seq1 agggcatatcctacagactgagtccagtgattgcacagaagtaaaccgtcctctgcagcta
||| || |
seq2 -----acaacaaagt-----agattcaaa---ctctgga---

seq1 catacctacaaacctatttctgtaacgta-----cattccccagg
| ||| ||| |||||| | |
seq2 ---atctagaaa-atatttctctaggcttttttttttttttcattttgcatataccag-

seq1 aagggtcccgcgggaaggatccactaccgcgagagg-----cctcccagccaggaaggggt
| |||| | |||||| | ||| | | |
seq2 -----tgtatcc--aggccgagaggacaaacctcacaaagctcaacaattt

seq1 ggggctcaatctgc-----agtagatt-----cccagaagcctcagtg
||| | | || |||| |
seq2 cacgctaagaccgccaacaccttagtagggtaaaagttctcgatcccatcagccttagcg

seq1 agtttctgattct-ctaactgcgcgatgcttctgcgcacgcgcaa-----tagacattcc
||| | | ||| | | | | |||||| | ||| |
seq2 catttccaatgcttctaagtgagcgtaacctgvcgcaggcgcaggcatagtcgaccacgc
-60

seq1 -GABP- -25
aggacttcggggcacttcgtaagg tttaaaaa-ggatgcttcgcggttttctctct CCTTT
||||||| | | ||||| | | ||| | ||| |
seq2 ctgacttcggggcgttacttaagg tataaata tggtcgcgtcggcgcgggtctgt CTCTC
-25

seq1 TTGGAGACAGATTTCGCAGTGGTTCGCTTCTTCTCCCTTG gtaagtgtgatccttggttaagt
| | | | | | | | | |
seq2 TAGGCGTC-----GCTCTCTTGGTGTGCTTG-----TTCTTG gttgagta

seq1 tgatcagatgcttgccaccggagttgtgggtcta-----a
| | |||| | | | |||| |
seq2 cagtgcgctgct---ctcgggtgctgagggtttggccgcgcggtcccgcacggggtccg
+100 +100