

Supplementary, *Frontiers in Bioscience-Landmark*, Special Issue "Thinking about RNA-Binding Proteins Emerging Roles in Human Health and Diseases"

1-L transcription in Parkinson's disease

1 Supplementary sequence information

```
>hsa:6622 K04528 alpha-synuclein | (RefSeq) SNCA, NACP, PARK1,
PARK4, PD1; synuclein alpha (A)
MDVFMKGLSKAKEGVVAAAEKTKQGVAAEAGKTKEGVLYVGSKTKEGVVHGVATVAEKTKEQVTNVGG
AVVTGVTAVAQKTVEGAGSIAAATGFVKKDQLGKNEEGAPQEGILEDMPVDPDNEAYEMPSEEGYQDY
EPEA
```

α -syn / 1-L transcription S=C, S (Ser) transcription to C (cytidine)

```
TATTTAGTCACAAGTTCCCAACAAGTCACCGACAAGTTATGCACAAGTTAGTCCTCAACAAATCATGG
CTTCGTCCTCAACTAGCGCTCCCGTTAAAATGAAAAGCCAAGTTAATCTACAAACAATCCAAGAAAA
ACAC
```

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>NM_001269040.2 Homo sapiens CCCTC-binding factor like (CTCFL),
transcript variant 1, mRNA
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```
Query 100 TGAAAAGCCAAGTTAATCTACAAACAATCCAAGAAAAACA 139
          ||||| | | ||||| ||| ||||| |||
Sbjct 904 TGAAAAGGCCA---AATCTACAAAAAATCAAAGAAAGACA 940
```

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>NM_001190811.2 Homo sapiens deleted in azoospermia like (DAZL),
transcript variant 1, mRNA
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Query 95 TAAAATGAAAAGCCAAGTTAATCTACAAACAAT 127
          ||||| | | || ||||| |||||
Sbjct 2327 TAAAATGAAGACACCAGCTAATCTAGAAACAAT 2295
```

```
>NM_153225.4 Homo sapiens somatomedin B and thrombospondin type 1
domain containing (SBSPON), mRNA RPE-Spondin
```

```
Query 98 AATGAAAAGCCAAGTTAATCTACAAACA 125
          ||||| ||||| ||| |||
Sbjct 1458 AATGAAAACCAAGTTATACTAAAAACA 1485
```

```
>XM_024447531.1 PREDICTED: Homo sapiens zinc finger DHHC-type
palmitoyltransferase 21 (ZDHHC21), transcript variant X6, mRNA
ZDHHC21, DHHC-21, DHHC21, DNZ1, HSPC097
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```
Query 99 ATGAAAAGCCAAGTTAATCTACAAA-CAATCCAAGAAAAA 137
          ||||| ||||| |||| || ||| |||||
Sbjct 2066 ATGAAAAGCAAAGTTAAAAGACAAAGCATTCTGAAAAA 2027
```

>NM_013368.4 Homo sapiens SERTA domain containing 3 (SERTAD3), transcript variant 1, mRNA

```

Query   118      TACAAACAATCCAAGAAAAA   137
          |||||
Sbjct   1484      TACAAACAATCCAAAAAAA   1465

```

>XM_047448081.1 PREDICTED: Homo sapiens interleukin 1 receptor accessory protein (IL1RAP), transcript variant X1, mRNA IL1RAP, C3orf13, IL-1RAcP, IL1R3

```

Query   11      CAAGTTCCCAACAAGTCACCGACAAGTTA   39
          |||||
Sbjct   10443     CAAGTGCCCAACAAGTTACAGACCACTTA   10471

```

>XM_006718846.3 PREDICTED: Homo sapiens opioid binding protein/cell adhesion molecule like (OPCML), transcript variant X1, mRNA

```

Query   62      ATCAT-GGCTTCGTCTCAACTAGCGCTCCCGTTAA   97
          |||||
Sbjct   8441     ATCATAGGGTTTGGCCTCAACTAGCACTCCCGTGAA   8405

```

>NM_001124759.5 Homo sapiens FSHD region gene 2 family member C (FRG2C), mRNA

```

Query   116      TCTACAAACAATCCAAGAAAAACAC   140
          |||||
Sbjct   1432     TCTACTAACAATACAAGAAAAAAC   1408

```

>NR_037925.1 Homo sapiens FSHD region gene 2 family member E, pseudogene (FRG2EP), non-coding RNA

```

Query   116      TCTACAAACAATCCAAGAAAAA   137
          |||||
Sbjct   1429     TCTACTAACAATACAAGAAAAA   1408

```

>XM_047421866.1 PREDICTED: Homo sapiens PLAG1 zinc finger (PLAG1), transcript variant X2, mRNA

```

Query   96      AAAATGAAAAGCCAAGTTAATCTA-CAAACAAT   127
          |||
Sbjct   4985     AAATTGAAAACCCAAGTTAA-CTAGTAAACAAT   4954

```

>NM_018036.7 Homo sapiens autophagy related 2B (ATG2B), mRNA

```

Query   108      CAAGTTAATCTACAAACAATCCAAGAAAAA   137
          |||||
Sbjct   10790     CAAGTTA---TACAAACAATGCAAGACAAA   10764

```

>XM_011531745.3 PREDICTED: Homo sapiens heat shock protein family A (Hsp70) member 4 like (HSPA4L), transcript variant X1, mRNA HSPA4L, APG-1, APG1, HSPH3, Osp94

```

Query   31      GACAAGTTATGCACAAGTTAGTCCTCAACAAATCAT   66
          |||
Sbjct   1862     GACTACTTATGCAGAACC-AGTCTTCAACAAATCAT   1896

```

>NM_001122770.3 Homo sapiens zinc finger and BTB domain containing 37 (ZBTB37), transcript variant 1, mRNA

```

Query   121      AAACAATCCAAGAAAA   136
          |||||
Sbjct   15858     AAACAATCCAAGAAAA   15843

```

>NM_005578.5 Homo sapiens LIM domain containing preferred translocation partner in lipoma (LPP), transcript variant 1, mRNA
Query 112 TTAATCTACAAACAATCCAAG 132
||||| ||||| |||||
Sbjct 6999 TTAATTTACAAAAAATCCAAG 6979

>NM_020978.4 Homo sapiens amylase alpha 2B (AMY2B), transcript variant 1, mRNA
Query 12 AAGTTCCCAACAAGTCACCGACAAGTTATGCACAAG 47
||| | ||||| ||| | | | |||||
Sbjct 897 AAGATACCAACCAGTTAGCTATAAATTATGCACAAG 932

>NM_000699.4 Homo sapiens amylase alpha 2A (AMY2A), mRNA
Query 12 AAGTTCCCAACAAGTCACCGACAAGTTATGCACAAG 47
||| | ||||| ||| | | | |||||
Sbjct 239 AAGATACCAACCAGTTAGCTATAAATTATGCACAAG 274

>NM_001008219.3 Homo sapiens amylase alpha 1C (AMY1C), transcript variant 1, mRNA
Query 12 AAGTTCCCAACAAGTCACCGACAAGTTATGCACAAG 47
||| | ||||| ||| | | | |||||
Sbjct 440 AAGATACCAACCAGTTAGCTATAAATTATGCACAAG 475

>NM_004038.4 Homo sapiens amylase alpha 1A (AMY1A), transcript variant 1, mRNA
Query 12 AAGTTCCCAACAAGTCACCGACAAGTTATGCACAAG 47
||| | ||||| ||| | | | |||||
Sbjct 440 AAGATACCAACCAGTTAGCTATAAATTATGCACAAG 475

>NM_001008218.2 Homo sapiens amylase alpha 1B (AMY1B), transcript variant 1, mRNA
Query 12 AAGTTCCCAACAAGTCACCGACAAGTTATGCACAAG 47
||| | ||||| ||| | | | |||||
Sbjct 440 AAGATACCAACCAGTTAGCTATAAATTATGCACAAG 475

>NM_057169.5 Homo sapiens GIT ArfGAP 2 (GIT2), transcript variant 1, mRNA GIT2, CAT-2, CAT2, PKL
Query 120 CAAACAATCCAAGAAAAACAC 140
||||| ||||| |||||
Sbjct 4664 CAAACATTCCAAGGAAAACAC 4644

>NM_001350283.2 Homo sapiens MUS81 structure-specific endonuclease subunit (MUS81), transcript variant 1, mRNA
Query 37 TTATG-CACAAGTTAGTCCTCAACAAAT 63
||||| ||| ||| ||||| |||||
Sbjct 2251 TTATGTCACCAGTTGGTCCTCATCAAAT 2278

>NM_014002.4 Homo sapiens inhibitor of nuclear factor kappa B kinase subunit epsilon (IKBKE), transcript variant 1, mRNA KBKE, IKK-E, IKK-i, IKKE, IKKI
Query 109 AAGTTAATCTACAAACAATCCAAGAA 134
|| || ||||| ||||| |||||
Sbjct 1996 AACTTCATCTACAAACAGTTCAAGAA 2021

>NM_031277.3 Homo sapiens ring finger protein 17 (RNF17), transcript variant 1, mRNA RNF17, Mmip-2, SPATA23, TDRD4

```

Query   41   GCACAAGTTAGTCCTCAACAA   61
          |||||
Sbjct   858   GCACAAGTTAGTTCTCCACAA   878

```

>NM_032028.4 Homo sapiens testis specific serine kinase 1B (TSSK1B), mRNA testis specific serine kinase 1B FKSG81, SPOGA4, STK22D, TSK1, TSSK1

```

Query   68   GCTTCGTCCTCAACTAGCGCTCCCCG   93
          |||||
Sbjct   488   GCTTCGTCCTCATGCAGGGCTCCCCG   463

```

>NM_002358.4 Homo sapiens mitotic arrest deficient 2 like 1 (MAD2L1), mRNA, MAD2L1, HSMAD2, MAD2

```

Query   108   CAAGTTAATCTACAAACAATCCAAGAAAAAC   138
          |||||
Sbjct   5140   CAAGTTAAGCCGCAAACAATTCACCAAAAAAC   5110

```

>XM_017022688.1 PREDICTED: Homo sapiens protein inhibitor of activated STAT 1 (PIAS1), transcript variant X2, mRNA PIAS1, DDXBP1, GBP, GU/RH-II, ZMIZ3

```

Query   88   TCCCCGTTAAATGAAAAGCCAAGTT   113
          |||||
Sbjct   506   TCCCCGTTATAATGAAACGACAACTT   531

```

Reverse α -syn / 1-L transcription S=C, S (Ser) transcription to C (cytidine)

CACAAAAAGAACCTAACAAACATCTAATTGAACCGAAAAGTAAAATTGCCCCCTCGCGATCAACTCCTGCTTCGGTACTAAACAACCTCTGATTGAACACGTATTGAACAGCCACTGAACAACCCTTGAACACTGATTTAT

>NM_005925.3 Homo sapiens meprin A subunit beta (MEP1B), transcript variant 1, mRNA

```

Query   108   CAGCCACTGAACAACCCTTGAACACTGATTTAT   140
          |||||
Sbjct   403   CAGCCACTG-----CCCTTGAACACTGATATAT   376

```

>NM_001252020.2 Homo sapiens transient receptor potential cation channel subfamily M member 1 (TRPM1), transcript variant 1, mRNA

```

Query   85   CTCCTGATTGAACACGTATTGAACA   109
          |||||
Sbjct   1753   CTCCTGATTGAAAACGGAGTGAACA   1777 Vr3

```

>XM_017016926.1 PREDICTED: Homo sapiens fibronectin type III and ankyrin repeat domains 1 (FANK1), transcript variant X28, mRNA

```

Query   3   CAAAAAGAACCTAACAAACATCTAATT   29
          |||||
Sbjct   477   CAAAAAGAACCTAGATAACATCTACTT   451 Vr1

```

>NM_152756.5 Homo sapiens RPTOR independent companion of MTOR complex 2 (RICTOR), transcript variant 1, mRNA RICTOR, AVO3, PIA, hAVO3

```

Query   112   CACTGAACAACCCTTGAACACTGATTTAT   140
          |||||
Sbjct   9260   CACTGAACAGACATTGAAATCTGATTTAT   9288

```

>NM_005087.4 Homo sapiens FMR1 autosomal homolog 1 (FXR1), transcript variant 1, mRNA FXR1, FXR1P, MYOPMIL, MYORIBF

```

Query   5   AAAAGAACCTAACAAACATCTAAT   28

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      |||| ||||| |||||
Sbjct  2979  AAAAAACCTAACAAAATTCTAAT  3002
```

>NM_003953.6 Homo sapiens myelin protein zero like 1 (MPZL1), transcript variant 1, mRNA MPZL1, MPZL1b, PZR, PZR1b, PZRa, PZR

```
Query  36  AAAAGTAAAATTGCCCTC  54
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      ||||| |||||
Sbjct  2467  AAAAGTAACATTGCCCTC  2449
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>NM_007220.4 Homo sapiens carbonic anhydrase 5B (CA5B), mRNA; nuclear gene for mitochondrial product CA5B, CA-VB, CAVB

```
Query  122  CCCTTGAACACTGATTTAT  140
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      ||||| |||||
Sbjct  486  CCCTTGATCACTGATTTAT  468
```

>NM_003574.6 Homo sapiens VAMP associated protein A (VAPA), transcript variant 1, mRNA VAPA, VAMP-A, VAP-33, VAP-A, VAP33, hVAP-33

```
Query  12  CCTAACAAACATCTAATTGAA  32
```

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      ||||| |||||
Sbjct  6753  CCTAACAAACCTCTATTTGAA  6733
```

>NM_001366508.1 Homo sapiens repulsive guidance molecule BMP co-receptor b (RGMB), transcript variant 1, mRNA RGMB, DRAGON

```
Query  6  AAAGAACCTAACAAAC  21
```

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      |||||
Sbjct  2750  AAAGAACCTAACAAAC  2735
```

>XM_017016035.2 PREDICTED: Homo sapiens attractin like 1 (ATRNL1), transcript variant X1, mRNA ATRNL1, ALP, bA338L11.1, bA454H24.1

```
Query  125  TTGAACACTGATTTAT  140
```

```
      |||||
Sbjct  5789  TTGAACACTGATTTAT  5804
```

α -syn / 1-L transcription S=G, S (Ser) transcription to G (guanosine)

TATTTAGTGACAAGTTCCCAACAAGTCACCGACAAGTTATGGACAAGTTAGTCCTCAACAAATCATGG
CTTCGTCCTCAACTAGCGGTCCCGTTAAAATGAAAAGCCAAGTTAATCTACAAACAATCGAAGAAAA
ACAC

>XR_001744173.1 PREDICTED: Homo sapiens TINAG antisense RNA 1 (TINAG-AS1), transcript variant X1, ncRNA

```
Query  109  AAGTTAATCTACAAACAATCGAAGAA  134
```

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      ||||| || ||||| |||||
Sbjct  451  AAGTTAATATAGAAACAATGGAAGAA  476
```

>XM_017003582.1 PREDICTED: Homo sapiens erb-b2 receptor tyrosine kinase 4 (ERBB4), transcript variant X9, mRNA

```
Query  42  GACAAAGTTAGTCCTCAACAAATCATG  67
```

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      |||| ||||| |||| |||||
Sbjct  190  GACAAATTAGTCTTCAAAAAATCATG  215
```

>NM_199261.4 Homo sapiens transmembrane phosphatase with tensin homology (TPTE), transcript variant 1, mRNA TPTE, CT44, PTEN2; transmembrane phosphatase with tensin homology

```
Query  116  TCTACAAACAATCGAAGAAAAACA  139
```

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      ||||| || ||||| ||||
Sbjct  765  TCTACAAATACTCGAAGAAGAACA  742
```

>NM_130785.4 Homo sapiens transmembrane phosphoinositide 3-phosphatase and tensin homolog 2 (TPTE2), transcript variant 1, mRNA
TPTE2, TPIP; transmembrane phosphoinositide 3-phosphatase and tensin homolog 2

```
Query 116 TCTACAAACAATCGAAGAAAAACA 139
          ||||| | ||||| |||
Sbjct 489 TCTACAAATACTCGAAGAAGAACA 466
```

>NM_080737.3 Homo sapiens synaptotagmin like 4 (SYTL4), transcript variant 1, mRNA
Slp-4, also known as granuphilin

```
Query 93 GTTAAATGAAAAGCCAAGTT 113
          ||||| | |||||
Sbjct 2931 GTTAAATTTAAAAGCCAAGTT 2911
```

>NM_001010935.3 Homo sapiens RAP1A, member of RAS oncogene family (RAP1A), transcript variant 1, mRNA

```
Query 112 TTAATCTACAAACAATCGAAGAAAAACAC 140
          ||||| ||||| || |||||
Sbjct 1572 TTAATCTATAAACAAAT--AACAAAAACAC 1546
```

>NM_025130.4 Homo sapiens hexokinase domain containing 1 (HKDC1), mRNA

```
Query 23 AAGTCACC--GACAAGTTATGGACAAGTTAG 51
          ||||| | | ||||| |||||
Sbjct 3366 AAGTCAACATGGCAAGTTAAGGACAAGTTAG 3336
```

>NM_003783.3 Homo sapiens beta-1,3-galactosyltransferase 2 (B3GALT2), mRNA

```
Query 94 TTAAAATGAAAAGCCAAGTTAATCTACAA 122
          ||||| ||||| ||||| ||
Sbjct 2368 TTAAAATGAAAAGC----TTAATCTAAAA 2344
```

>XM_024446563.1 PREDICTED: Homo sapiens ring finger protein 146 (RNF146), transcript variant X1, mRNA

```
Query 109 AAGTTAATCTACAAACAATCGA 130
          ||||| ||||| ||
Sbjct 2770 AAGTTAATCTGCAAACAATGGA 2749
```

>XM_017027237.1 PREDICTED: Homo sapiens zinc finger protein 222 (ZNF222), transcript variant X3, mRNA

```
Query 119 ACAAACAATCGAAGAAAAACAC 140
          ||||| |||| |||||
Sbjct 906 ACAAACAACGAACAAAAACAC 885
```

>NM_199133.4 Homo sapiens ATP synthase c subunit lysine N-methyltransferase (ATPSCKMT), transcript variant 1, mRNA

```
Query 121 AAACAATCGAAGAAAAACA 139
          ||||| |||||
Sbjct 858 AAACAACGAAGAAAAACA 876
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>NM_001289912.2 Homo sapiens TPTEP2-CSNK1E readthrough (TPTEP2-CSNK1E), mRNA

```
Query 116 TCTACAAACAATCGAAGAAAAACA 139
          ||||| | ||||| |||
Sbjct 745 TCTACAAATACTCGAAGAAGAACA 722
```

>NM_017759.5 Homo sapiens INO80 complex subunit D (INO80D), mRNA
Query 119 ACAAACAATCGAAGAAAAA 137
||||||| |||||||||
Sbjct 8652 ACAAACAAACGAAGAAAAA 8634

>NM_000165.5 Homo sapiens gap junction protein alpha 1 (GJA1), mRNA
Query 95 TAAAATGAAAAGCCAAGTT 113
||||||| |||||
Sbjct 129 TAAAATGAAAAGGCAAGTT 111

>XM_024452692.1 PREDICTED: Homo sapiens calcium and integrin binding family member 4 (CIB4), transcript variant X3, mRNA
Query 57 AACAAATCATGGCTTCGTC 75
||||||| |||||
Sbjct 1283 AACAAATCATGGCTACGTC 1301

>NM_001363715.2 Homo sapiens septin 7 (SEPTIN7), transcript variant 4, mRNA
Query 90 CCCGTTAAAATGAAAAGCCAA 110
||| ||||||||| ||
Sbjct 271 CCCATTAAAATGAAAAGCTAA 251

>NR_001591.1 Homo sapiens TPTE pseudogene 1 (TPTEP1), non-coding RNA
Query 116 TCTACAAACAATCGAAGAAAAACA 139
||||||| | ||||||| |||||
Sbjct 910 TCTACAAATACTCGAAGAAGAACA 887

>NM_002265.6 Homo sapiens karyopherin subunit beta 1 (KPNB1), transcript variant 1, mRNA
Query 96 AAAATGAAAAGCCAAGTTAAT 116
||||||| || |||||
Sbjct 5675 AAAATGAAAAGCAAAATTAAT 5655

>NM_014467.3 Homo sapiens sushi repeat containing protein X-linked 2 (SRPX2), mRNA
Query 93 GTTAAAATGAAAAGCCAAGTT 113
||||| | |||||||||
Sbjct 6327 GTTAAATTTAAAAGCCAAGTT 6347

>NM_001144995.2 Homo sapiens coiled-coil domain containing 85C (CCDC85C), mRNA
Query 6 AGTGACAAGTTCCCAACAAGT 26
|||| ||||| |||||||
Sbjct 8921 AGTGAAAAGTTCTCAACAAGT 8901

>NM_144976.4 Homo sapiens zinc finger protein 564 (ZNF564), mRNA
Query 95 TAAAATGAAAAGCCAAGTTAATCTACAAACA 125
||| || |||| | ||||| |||||
Sbjct 2551 TAAATTGGAAAGCTTAATTAATCAACAAACA 2521

Reverse α -syn / 1-L transcription S=G, S (Ser) transcription to G (guanosine)

CACAAAAAGAAGCTAACAAACATCTAATTGAACCGAAAAGTAAAATTGCCCTGGCGATCAACTCCTG
CTTCGGTACTAAACAACCTCTGATTGAACAGGTATTGAACAGCCACTGAACAACCCTTGAACAGTGAT
TTAT

>NM_198795.2 Homo sapiens tudor domain containing 1 (TDRD1), transcript variant 1, mRNA
Query 1 CACAAAAAGAAGCTAACAAACAT 23
|| ||||| |||||
Sbjct 4268 CAGAAAAAGAAGATAACAAACAT 4246

>NM_020123.4 Homo sapiens transmembrane 9 superfamily member 3 (TM9SF3), mRNA
Query 27 ATTGAACCGAAAAGTAAAATTGC-CCCTGGCGATCAA 62
||||| ||| ||||| | ||| ||| | |||
Sbjct 1559 ATTGAACCAAAAGGTAAAATTCCACCCAGGCAAACAA 1523

>XM_011523545.3 PREDICTED: Homo sapiens coiled-coil domain containing 57 (CCDC57), transcript variant X1, mRNA
Query 5 AAAAGAAGCTAACAAACATCTAATTGA 31
||||| ||||| ||||| |||||
Sbjct 3814 AAAAGA-GCTAACAGACATCTACTTGA 3789

>NM_139207.5 Homo sapiens nucleosome assembly protein 1 like 1 (NAP1L1), transcript variant 1, mRNA
Query 2 ACAAAAAGAAGCTAACAAACATCTAAT 28
||||| |||| ||||| | |||
Sbjct 1442 ACAAAAACAAGCAAACAACAACAAT 1416

>NM_001177465.3 Homo sapiens mastermind like domain containing 1 (MAMLD1), transcript variant 1, mRNA
Query 44 AATTGCCCCTGGCGATCAACTCCTGCTTC 72
|| ||||| |||| | |||| || |||||
Sbjct 2775 AAGTGCCCCTGGCCAACAACCCAGCTTC 2803

>NM_015180.6 Homo sapiens spectrin repeat containing nuclear envelope protein 2 (SYNE2), transcript variant 1, mRNA
Query 8 AGAAGCTAACAAACATCTA 26
|| ||||| ||||| |||||
Sbjct 8878 AGGAGCTAACAAACATCTA 8896

>NM_000480.3 Homo sapiens adenosine monophosphate deaminase 3 (AMPD3), transcript variant 1, mRNA
Query 26 AATTGAACCGAAAAGTAAAATTGC 49
||||| ||||| ||| |||
Sbjct 2702 AATTGAACCAAAAAGTTAAAATGC 2679

>NM_015330.6 Homo sapiens sperm antigen with calponin homology and coiled-coil domains 1 like (SPECC1L), transcript variant 1, mRNA
Query 3 CAAAAAGAAGCTAACAAACATCTAATTGAA 32
||| ||||| |||| |||||
Sbjct 2257 CAAGAAGAAGCTAAGAAACA---AATTGAA 2283

>NM_152327.5 Homo sapiens adenylate kinase 7 (AK7), transcript variant 1, mRNA
Query 86 TCCTGATTGAACAGGTATT 104
||||| ||||| ||||| ||
Sbjct 1517 TCCTGATTGAACAGGTCTT 1499

>NM_130773.4 Homo sapiens contactin associated protein family member 5 (CNTNAP5), transcript variant 1, mRNA

```

Query   74   GTACTAAACAACCTCCTGATTGAAC   97
        ||||| | ||||| |||||
Sbjct   963   GTACTCATCAACTTCTGATTGAAC   940

>NM_003875.3 Homo sapiens guanine monophosphate synthase (GMPS),
mRNA
Query   18   AAACATCTAATTGAACCGAAAAGTAAAAT   46
        ||||| | | || ||||| |||||
Sbjct   5404  AAACATCAAAATGCACCGTAAAGTTAAAT   5432

>NM_018728.4 Homo sapiens myosin VC (MYO5C), mRNA
Query   102  ATTGAACAGCCACTGAACAACCCT   125
        |||| ||||| ||||| |||||
Sbjct   1293  ATTGCACAGCCACTGAGCAACTCT   1270

>NM_001159522.3 Homo sapiens zinc finger protein 727 (ZNF727), mRNA
Query   23   TCTAATTGAACCGAAAAGTAAAAT   46
        ||||| ||||| | ||| |||||
Sbjct   8384  TCTAATTGAAACAAAATGTAAAAT   8361

>NM_180991.5 Homo sapiens solute carrier organic anion transporter
family member 4C1 (SLC04C1), mRNA
Query   22   ATCTAATTGAACCGAAAAGTAAAA   45
        ||||| ||||| |||||
Sbjct   4738  ATCTAGGTGAACCCAAAAGTAAAA   4715

>NM_001395745.1 Homo sapiens POU class 5 homeobox 1B (POU5F1B), mRNA
Query   73   GGTACTAAACAACCTCCTGATT   93
        ||||| ||||| |||||
Sbjct   897   GGTACAAAACAATTCCTGATT   877

>NM_001100164.2 Homo sapiens phosphatase and actin regulator 2
(PHACTR2), transcript variant 1, mRNA
Query   23   TCTAATTGAACCGAAAAGTAA   43
        |||| | ||||| |||||
Sbjct   3698  TCTATTTCAACCGAAAAGTAA   3718

>NM_032943.5 Homo sapiens synaptotagmin like 2 (SYTL2), transcript
variant a, mRNA 43variants
Query   28   TTGAACCGAAAAGTAAAATTG   48
        ||||| ||||| |||||
Sbjct   1455  TTGAACCCAAAAGCAAATTG   1475 Vr43

>NM_020443.5 Homo sapiens neuron navigator 1 (NAV1), transcript
variant 1, mRNA
Query   2    ACAAAAAGAAGCTAACAAACA   22
        ||||| ||||| |||||
Sbjct   6208  ACAAAAACAAGCAAACAAACA   6228

>NM_005901.6 Homo sapiens SMAD family member 2 (SMAD2), transcript
variant 1, mRNA
Query   104   TGAACAGCCACTGAAC   119
        ||||| ||||| |||||
Sbjct   23620  TGAACAGCCACTGAAC   23605

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>NM_003787.5 Homo sapiens nucleolar protein 4 (NOL4), transcript variant 1, mRNA
Query 104 TGAACAGCCACTGAAC 119
|||||
Sbjct 2560 TGAACAGCCACTGAAC 2575

>NM_001005743.2 Homo sapiens NUMB endocytic adaptor protein (NUMB), transcript variant 1, mRNA
Query 106 AACAGCCACTGAACAA 121
|||||
Sbjct 880 AACAGCCACTGAACAA 895

>NM_032679.3 Homo sapiens zinc finger protein 577 (ZNF577), transcript variant 1, mRNA
Query 2 ACAAAAAGAAGCTAACAAACA 22
||||| |||| |||||
Sbjct 6558 ACAAAAACAAGCAAACAAACA 6538

>NM_018002.3 Homo sapiens oxidation resistance 1 (OXR1), transcript variant 1, mRNA
Query 1 CACAAAAGAAGCTAA 16
|||||
Sbjct 1902 CACAAAAGAAGCTAA 1917

>XM_005250181.4 PREDICTED: Homo sapiens zinc finger protein 800 (ZNF800), transcript variant X5, mRNA
Query 3 CAAAAAGAAGCTAACAAACATCTAAT 28
||| ||||| ||||| |||
Sbjct 8783 CAACAAGAAGGCAACAAACATCAAAT 8758

>NM_015092.5 Homo sapiens SMG1 nonsense mediated mRNA decay associated PI3K related kinase (SMG1), mRNA
Query 92 TTGAA-CAGGTATTGAACAGCCACTGAA 118
|||| || ||||| ||| ||
Sbjct 10125 TTGAATCAAGTATTGAACAGCGACTCAA 10152 Vr20

>NM_001351282.2 Homo sapiens MGAT4 family member C (MGAT4C), transcript variant 1, mRNA
Query 2 ACAAAAAGAAGCTAACAAACA 22
||||| |||| |||||
Sbjct 22937 ACAAAAACAAGCAAACAAACA 22957

>NM_001127357.2 Homo sapiens putative homeodomain transcription factor 2 (PHTF2), transcript variant 1, mRNA
Query 6 AAAGAAGCTAACAAACATCTAAT 28
||||| ||||| |||
Sbjct 4950 AAAGAAGCAAACAAACAT-TAAT 4929

>NM_002298.5 Homo sapiens lymphocyte cytosolic protein 1 (LCP1), mRNA LCP1, CP64, HEL-S-37, L-PLASTIN, LC64P, LPL, PLS2
Query 2 ACAAAAAGAAGCTAAC 17
|||||
Sbjct 633 ACAAAAAGAAGCTAAC 648

>NM_024847.4 Homo sapiens transmembrane channel like 7 (TMC7), transcript variant 1, mRNA

Query	81	ACAATCCTGATTGAACAG-GTATTGAA	107
Sbjct	4364	ACAATCCTGATTAAACGGCGTCTTGAA	4391