Figure S2. Sequence alignments of promoter regions of acquisition category II pairs. Note that, unlike Figure S1, cDNA sequences are shown for the source genes, in other words, intronic sequences are not shown. Each transcription start site is written in red, and protein-coding sequences are indicated by boxes. Splice junctions are indicated by triangles. (A) *CTBP2* and *MGC70870*. The first five exons are shown for the *CTBP2* gene. A cluster of transcription start sites is located in the first intron, according with the fact that the second exon is well aligned with upstream region of the *MGC70870* gene. Part of the 5' UTR of the source gene might have become a promoter of the retrotransposed gene. (B) *WDR21A* and *WDR21B*. (C) *WDR21A* and *WDR21C*. The frequency of each transcription start site are available in graphical format at the DBTSS Website.

A

```
CTBP2     CCGAACCGGGAGCCATGCCGCGCTGAGGGGGGGCCGCACAGCCGCCGCCACCGCCACCGC
          |   || |     || |     |  |||| |   | |||  |  || |||   | |  ||
MGC70870  CTTTACTGTAGAACAGGGGCATCCAAGGGAGAATCTCACCACGACC-CCAGGTCTAGAGC

CTBP2     CGCCGGG---TGGGGTGGGAGGGGCGGGAGACGCCGCCGCCGCCGCCTCCAGGGTGGGCG
            ||||     |   |    |||   |||| || |  || | | |    |  |||| |
MGC70870  GCCCGGAGTCCGCCATCCCTGGGAATGGAGGCGGCTTCGGC-CTGGGGTCGTGGTGAGAT

CTBP2     CCTTT--------CGCCGTGGACGCCGACCGTCCGGGACGAGGGTTTCATCACCTTAAAT
           | ||        |||  | |  || ||    |  | |   |||||||||||||||||||
MGC70870  TCGTTGGTGGCTGCGCGATTGTGGCGGAGTTGCAAGCAAACGGGTTTCATCACCTTAAAT

CTBP2     GGTTTTGAACCAATGAAGGTGTATTCCCTTAAAAAGACGGACAGCCCATCGTGTGAACTA
          ||||||||||||| |||| |||||||||||||||||||||||| |||||||||||||||||
MGC70870  GGTTTTGAACCAAAGAAGCTGTATTCCCTTAAAAAGACGGACAACCCATCGTGTGAACTA

CTBP2     TAGAGTTTGTGGACAGATTTATATTGGGTTCATAGTGGCGTCATGCACGCAGACTCCTGC
          ||||||||||| ||| ||||||||||||||||||||||||||||||||||||||||||||
MGC70870  TAGAGTTTGTGAACAAATTTATATTGGGTTCATAGTGGCGTCATGCACGCAGACTCCTGC

CTBP2     AAGTTCCCCTAAGTTCTTAGAGGACTGCTTTGCCTTTTGATCTGAGAGTTGCAAAGTTCC
           |||||||||||||||||||||||||||||||||||||||||||||||||||||| ||||
MGC70870  GAGTTCCCCTAAGTTCTTAGAGGACTGCTTTGCCTTTTGATCTGAGAGTTGCAAATTTCC

CTBP2     ATAAAGAATGGCCCTTGTGGATAAGCACAAAGTCAAGAGACAGCGATTGGACAGAATTTG
           |||||||||||||||||||||||||| | ||||||||||||||| |||||||||||||||
MGC70870  CTAAAGAATGGCCCTTGTGGATAAGCGCTAAGTCAAGAGACAGTGATTGGACAGAATTTG

CTBP2     TGAAGGTATCCGCCCCCAGATCATGAACGGCCCCCTGCACCCCCGCCCCCTGGTGGCGCT
          ||| || || |||||||||||||||||| | | ||||| ||||| ||| | ||||||| ||
MGC70870  TGA-GGAATTCGCCCCCAGATCATGAAAGTCACCCTGAACCCC-GCCTCGTGGTGGCTCT

CTBP2     GCTGGACGGCCGCGACTGCACTGTGGAGATGCCCATCCTGAAGGACCTGGCCACTGTGGC
          |||||| || || |||||||||||||| |||||||||||||||||||||||||||  ||||
MGC70870  GCTGGATGGACGGGACTGCACTGTGGACATGCCCATCCTGAAGGACCTGGCCACC-TGGC

CTBP2     CTTCTGTGACGCGCAGTCGACGCAGGAAATCCACGAGAAGGTTCTAAACGAAGCCGTGGG
          ||||||||| || ||||| | |||||| |||||||||||| |||||||||||||| ||||||
MGC70870  CTTCTGTGAGGCTCAGTCCATGCAGGAGATCCACGAGAAAGTTCTAAACGAAGTCGTGGG
```

B

```
WDR21A    CACGCTTCGCTCCAACTCCTGCAGAGCTGAGCCGGAGGGGAATCCGGAAGGGACACGCTG
            | | | |   ||| ||    | || || |||   | ||| |||||       |   || |
WDR21B    AGCCCATAGTCCCAGCTAA-GTAGGGCAGAG--GTAGGAGAATCACTTGAGCCCAGGAGT

WDR21A    AACAGGAACAGAAATGAATAAAAGTCGC-TGGCAGAGTAGAAGACGACATGGGAGAAGAA
            ||||   | | | |||       ||||      | |       || |     ||   |||   ||
WDR21B    TCCAGG--CTGCAGTGAGCCGTGGTCGTGCCACTGGACTCCAGCCTGGGTGAAAGAGCAA

WDR21A    GCCACCAGCAGAACCCTTGGTTCAGACTCCGTGATTCTGAAGACAGGTCTGACTCCCGGG
          | | |    |   ||      |       |      | |    | ||||      ||   |   |   |
WDR21B    GACCCTGTCTCAAAAAGAGAAAGGAAAAAATTTAACATCAAGAACTTCCTTTCATCAAGA

WDR21A    CAGCACAGCCCGCTCACGATTCCGGCCACGGTGATGACGAGTCTCCGTCAACCTCGTCTG
          || ||| |    |    ||||    |    ||   ||     |       |   || |   | | ||||
WDR21B    CACCACTGAGAGAATACGACAACCCACAGAGTAGGAAAAGAGATTTGTAATACACATCTG

WDR21A    GCACAGCTGGGACCTCCTCT-----------GTGCCAGAGCTACCTGGGTTTTACTTTGA
            |||     |||| |||||             |     | |   || |      ||     |||
WDR21B    TAACAAT--GGACTTCCTCCTAGAATAGAGAGGATAAAAAGTAGCAACACTTCCGCTTGC

WDR21A    CCCTGAAAAGAAACGCTACTTCCG----------CTTGCTCCCTGGACATAACAAC-TGC
           || | |   |||    |    |   ||                 || | |    | |||| | |||
WDR21B    ACCCGGACGGAACTTCCTGTCACGGAAAAGAACATCCTGTCACGGAGAAGAACATCCTGC

WDR21A    A--ACCCCCTGACGAAAGAGAGCATCCGGCAGAAGGAGATGGAGAGCAAGAGACTGCGGC
          |   |    |||| |    || || ||| | |||| |||| ||||||     | ||  |||||  |
WDR21B    AGAATTTCCTGTCACGAG-GAACATTCCGCAGGAGGAAATGGAGGCTGAAAGGCTGCGAC

WDR21A    TGCTCCAGGAAGAAGACAGACGGAAAAAGATTGCCAGGATGGGATTTAATGCATCTTCCA
          | ||| ||||||| | ||   | ||||||| | ||||| ||||||||||||||||||||
WDR21B    TCCTCGAGGAAGAGGCCAAGCTGAAAAAGGTAGCCAGAATGGGATTTAATGCATCTTCCA
```

C

```
WDR21A    CACGCTTCGCTCCAACTCCTGCAGAGCTGAGCCGGAGGGGAATCCGGAAGGGACACGCTG
           | |  |   | || ||  |     | || |   ||||||    |||||  ||  | ||
WDR21C    AATGTATGCATACAGCTATTATGACG-TGTGTAAGAGGGG---TCGGAAAAGAATCTCTA

WDR21A    AACAGGAACAGAAATGAATAAAAGTCGCTGGCAGAGTAGAAGACGACATGGGAGAAGAAG
          |||||||| |||||||||||||||  |||| | ||||||  ||  ||  | ||||||
WDR21C    AACAGGAATAGAAATGAATAAAAGCAGCTGTCTGAGTAGGGGAAAACTCGAGAGAAG---

WDR21A    CCACCAGCAGAACCCTTGGTTCAGACTCCGTGATTCTGAAGACAGGTCTGACTCCCGGGC
              |||| |||| |||| ||||||   || |||||| | || || | ||    | ||||
WDR21C    ----CAGCGGAACTCTTGTTTCAGATCACGCGATTCTAACGAGAGTTATG---TCAGGGC

WDR21A    AGCACAGCCCGCTCACGATTCCGGCCACGGTGATGACGAGTCTCCGTCAACCTCGTCTGG
          | | |||  |  ||  ||||  ||||| || || || || ||||   |        ||
WDR21C    ACCTCAGAGCATTCGGGATTTGGGCCAAGGCGACGAAGAATCTCGTCCGGGTCGACCTCA

WDR21A    CACAGCTGGGACCTCCTCTGTGCCAGAGCTACCTGGGTTTTACTTTGACCCTGAAAAGAA
           || ||   | |     |   ||  ||  | | |  ||   |  | |  | || ||||||
WDR21C    TAC-GCACAGGCGCAGGCGCAGCGGGAAGTTCTTCCGTGCCAAGTCGTGCTTGTAAAGAA

WDR21A    ACGCTACTTCCGCTTGCTCCCTGGACATAACAACTGCAACCCCCTGACGAAAGAGAGCAT
           || ||||||| ||| ||||| ||||| |||        ||||| | ||  |||| |||
WDR21C    GCGGTACTTCCTCTTACTCCCGGGACAGAACT-------TCCCCTCAGGAGGGAGAACAT

WDR21A    CCGGCAGAAGGAGATGGAGAGCAAGAGACTGCGGCTGCTCCAGGAAGAAGACAGACGGAA
          ||| | ||| || |||||||||||| |||| ||| |||||| |||||| |||||  | |||
WDR21C    CCG-CCGAACGAAATGGAGAGCAAAAGACCGCGACTGCTCGAGGAAGCAGACAAGCAGAA
```