Supplementary Fig. 6

```
                                   Motif 1                                                  Dys
                                --|---~---|---                                            |---|
                          Dys                                                         AAG
                         |---|                                                        |-|
Dmel    1   CAAGACCCAT TCGTGACCAT GGAAAGTCTG TTGA~~~~~~ ~~~~GTACAT CGAAGTCGTG
Dsim    1   CAAGACCCAT TCGTGACCAT GGAAAGTCAG TTGG~~~~~~ ~~~~CTACAA GGAAGTCGTG
Dsec    1   CAAGACCCAT TCGTGACCAT GGAAAGTCAG TTGG~~~~~~ ~~~~CTACAA CGAAGTCGTG
Dyak    1   CAAGACTCAT TCGTGACCAA GGAAAGTCAG TTGG~~~~~~ ~~~~GTACAA CAAAGTCGTG
Dere    1   CAAGGCTCAT TCGTGACCAA GGAAAGTCAG TTGG~~~~~~ ~~~~GTACAA CAAAGTCGTG
Dana    1   CAA~~CGCAT TCGTGACCAA GGAAAGTCCA CTGCTT~~~~ ~~~~GGACAT CAAAATCGTG
Dpse    1   GTCCGGGGGC TCGTGACCAA GGAAAGTCGG CCCA~~~~~~ ~~~~AAACAT CAAAGTCGTG
Dper    1   GTCCGGGGGC TCGTGACCAA GGAAAGTCGG CCCA~~~~~~ ~~~~AAACAT CAAAGTCGTG
Dwil    1   ~~~~~~~~~~ TCGTGATCAA GGAAAGTT~~ ~~~~~~~~~~ ~~~TTCAATG CAAAATCGTG
Dvir    1   GCCGCATCGT TCGTGTTCAA GGAAAGTTGT CA~CAATCGA CACAATACAA TAAAATCGTG
Dmoj    1   CGCCGTCGCA TCGTGATCAA GGAAAGTTGT CATCAATCG~ ~~~~ATACAG CGAAATCGTG
Dgri    1   CCCCCATATG TCGTGATCAA GGAAAGTTG~ ~~~~~~~~~~ ~~~~~TACAC CAAAATCGTG

                                                   Motif 1
                                                --|-------~---|
Dmel    51  TGGCATTTTT TTTTTTTTTG GGG~ACCC~~ GACCATTAAA AGTG
Dsim    51  TGGCACTTAC ~~TTTTTGGG GGG~ACCCGA CTCGATTAAA AGTG
Dsec    51  TGGCACTTAC ~~TTTTT~GG GGG~ACTCGA CTCGATTAAA AGTG
Dyak    51  TGGCTCATTA T~TTTTC~GG GGG~ACCC~~ GACCATCAAA AGTG
Dere    51  TGGCACTTAT T~TTTTT~GG GGGTACCC~~ GACCATTAAA AGTG
Dana    51  TGGTGTGT~~ ~CCCTTA~AA ATA~TTTC~~ GACCATTAAA AGTG
Dpse    51  TCAAACATTC ~~~~~~~~~~ ~~~~~~~~~~ GACCATTAAA AGTA
Dper    51  TCAAACATTC ~~~~~~~~~~ ~~~~~~~~~~ GACCATTAAA AGTA
Dwil    36  CGTATG~~~~ ~~~~~~~~~~ ~~~~~~~~~~ ~~CCATGGAA AGTA
Dvir    60  TGCCTTGAAC ~~~~~~~~~~ ~~~~~~~~~~ ~~GCATAGAA AGTA
Dmoj    56  TGCGTCCATC G~~~~~~~~~ ~~~~~~~~~~ ~~CCATGGAA AGTA
Dgri    45  TGCT~~~~~~ ~~~~~~~~~~ ~~~~~~~~~~ ~~ACATAGAA AGTA
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