

AP1

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Dmel 1 ~~~~~a-gaaaaa~ccctgtttcga~~~gtgactcataa~
Dsim 1 ttttttcttctgggagccc~~~~aagaaaaa~ccctgtttcga~~~gtgactcattt~
Dsec 1 ttttttcttctgggagccc~~~~aagaaaaa~ccctgtttcga~~~gtgactcatga~
Dyak 1 att~~~~caaaa~ccctgtttcga~~~gtgactcatga~
Dere 1 ttttttcttctgggagccc~~~~gacaaaaa~ccctgttacga~~~gtgactcatga~
Dpse 1 ~~~~~tt~~~~caaaaaatcgc~tgcccgggtgtgacgtgactcatga~
Dper 1 agctcatgtgg~~~~tg~~~~gattcaaat~cgctgcccgggtgtgacgtgactcatga~
Dana 1 ~~~~~agaaaatc~~~~cctgg~attttgtgactcatga~
Dvir 1 ~~~~at~ctct~tgtcttgectgaggaaa~~~~cccca~cgcagcgc~gtgagtcagag
Dmoj 1 ~~~~atcgc~ctctgt~tagtttgaggaa~~~~ccccatcacaacg~gatgagtcac~ag
Dgri 1 ~~~~~t~~~~ttaggaaa~~~~cccca~tgcaacat~gtgactcataag

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ETS

ETS

ETS

|--DdcΔ1-->

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Dmel 29 ~~~tggggga~ttcctgacgagatcgctctcttt~~~~ccacaaattcgagt~~~~t
Dsim 49 ~~~tggggga~ttcctgtcgagattttttt~~~~tttaaatttgagt~~~~t
Dsec 49 ~~~tggggga~ttcctgtcgagatcgctctcttttttttcttttaatttgagt~~~~t
Dyak 30 ~~~tggggga~ttcccgacgagatcgctctctttt~~~~cttaaattcgagt~~~~t
Dere 49 ~~~tggggga~ttcctgacgagatcgctctctttt~~~~cttaaattcgagt~~~~t
Dpse 37 ~~~cggggga~ttcctggaccgcactc~~gcacggtc~cc~cataaaaacg~~~~atacct
Dper 48 ~~~cggggga~ttcctggaccgcactc~~gcacggtc~cc~cataaaaacg~~~~atacct
Dana 29 ~~~tggggga~ttcctgga~ggcacttatgtac~~acacctct~~~~ctctgt~t~~t
Dvir 49 ctcgggggaattcttcttga~~ctg~tcgatcc~~~~a~~~~actga~at~~~~t
Dmoj 49 ~~~tgagggaattgttttattta~~ctg~ttaaaaa~~ac~tgga~ttatacgcaagct
Dgri 35 cgctgggggaattctttt~ttaatgcttcttaaaaatcaacct~aatt~at~~~tatgc~

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Dmel 76 ggggaagc~~~~~acgtgagtagaattcaaaatgttttgcttgct
Dsim 91 ggggaagc~~~~~acgtgagcagcattcaaaatgtttgcttggt
Dsec 100 ggggaagc~~~~~acgtgagcagcattcaaaatgttttgcttggt
Dyak 76 gagatgc~~~~~acgtgagcagaattcaaaacattccgctttgt
Dere 95 ggggaagc~~~~~acgtgagcagaattcaaaactgattcactaggt
Dpse 86 gggaa~~~cg~gcg~~~~tggaggatcgtgcgagaattcaaacattctgagagg~
Dper 97 gggaa~~~cg~gcg~~~~tggaggatcgtgcgagaattcaaacattctgagagg~
Dana 74 tggagaacaagatcaggcttcgcgaacgtgagaagaattcttcac~~~~gatcgg~
Dvir 89 ~~~~~agtta~agagctg~~~~g~~~~tt~g~~~~at~t~~att~t~c~~~
Dmoj 99 aattcagctct~tgagctt~~~~gactgaaatatatt~c~tctcatcttgcata~cgcag~
Dgri 87 ~a~t~cgctatag~ccttcaaga~t~tattgt~ttacatttcgtatt~~attgc~ccg~

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|--DdcΔ2-->

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Dmel 115 gttttaaatatca~ctaggt~tctcaa~acta~atttc~~aaa~aataa~~~tcaaatta
Dsim 130 gttttaaatataa~ctaggt~tcacac~acta~agctt~~aaa~aataa~~~taaaatta
Dsec 139 gtttaaaatatca~ctaggt~tcacac~acta~agctt~~aaa~aataa~~~taaaatta
Dyak 115 gcttttagtc~aatc~agaaatatca~~a~~t~attttataat~agt~~~~ttaaattt
Dere 134 ggttttggtctttgcgatgt~aa~tatta~taca~tgt~~aaacaagaaatttcaa~~~t
Dpse 135 ~~~~~tctttcaa~~~ttttaaatgggc~~~~t~~~~~ac
Dper 146 ~~~~~tctttcaa~~~ttttaaatgggc~~~~t~~~~~ac
Dana 127 ~~~~~gt~ttt~atggttttaagtttacaattttttttttttac
Dvir 113 ~~~~~tat~~tgcaacttta~tgcgaaaatgaaacgcgcgtgca
Dmoj 149 ~~~~~gtgtaatgcactttg~tgtgaaaatgaca~g~cgtgtgca
Dgri 136 ~~~~~tttaaatgcactcacat~cg~~aatgacg~t~~cg~gcc

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<--DdcΔ1--|

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Dmel 165 agttcacagag~ctggcaa~ataaaat~~~~~gtaatagcttgcatgtatgta
Dsim 180 agcttacagag~ctggcaa~ataaaatatattttttaaatgtaatagcttgcatgtat~~
Dsec 189 agcttacagag~ctggcaa~ataaaatatattttttaaatgtaatagcttgcatgtatg~~
Dyak 162 aatcaactttg~ctggcaa~ataaaa~~~~~
Dere 185 atttta~aaatact~ttaatat~agct~~aggettaaatctt~~~~~aag~attcc

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Dpse 158 ~tatt~~~~~aattaa~~~~~ttatt~~~~~aata~~~~~taa~~~~~ttgta~~~
Dper 169 ~tatt~~~~~aattaa~~~~~ttatt~~~~~aata~~~~~taa~~~~~ttgta~~~
Dana 166 atgttttctgatttaagaaatgtatttttaatttaaaaaaacgagtaaaaaaagttaaaaag
Dvir 150 aaatatcaaacaaca~~~~~ttgc~~~gctt~~~gtcaacaatacaatttaatatatat
Dmoj 187 aaaaaaaaaaaaaaattatttttttggttt~~~gtagc~a~~~a~aa~gtac~atttaa
Dgri 169 aaatatcaaacaata~~~~~attgtgtgtcaacagattga~a~ta~aa~~~taa~atttaa

Dmel 211 t~atataatatttttttaaaattctaataaataatccatggaaaataaagcctttgatatcc
Dsim 234 ~~~~~ttatatattttttt~aattataaataaataatccatggaaaataatgccttcgatatcc
Dsec 245 t~atataatatttttttaaaattataagtaaatccatggaaaataatgccttcgatatcc
Dyak 185 ~~~~~tatataattttt~~~~~gtggaaa~~~~~tctccgatatcc
Dere 230 tgagatgta~ataactggaa~~~~~aaataagcc~~~~~gaaa~~~aatcccgcggatcc
Dpse 185 ~~~~~t~taatttattgg~~~~~att~~~~~ttat~tggaagaaaaa~~~~~
Dper 196 ~~~~~t~taatttattgg~~~~~att~~~~~ttat~ggaaagaaaaa~~~~~
Dana 226 aaaaggatataaattattgttaataatttttaaatagcaagagattattataagactata
Dvir 199 atatatataaat~~~a~~~cacacac~acctgca~agtgt~ttattt~at~~~tacaataa
Dmoj 238 at~~~tat~~~at~~~g~~~cacac~cga~~~ggcacact~t~gtattttatagtacaaatta
Dgri 219 ata~~~aaaaatgcagacacacac~acctggt~a~t~taattattt~at~~~aacaattt

Dmel 270 agt~~~~~
Dsim 290 agt~~~~~
Dsec 304 agt~~~~~
Dyak 216 agt~~~~~
Dere 278 agt~~~~~
Dpse 216 ~~~~~gtttccataaaactt~ct~taga~~~~~tctgcca~~~~~
Dper 226 ~~~~~gtttccataaaactt~ct~taga~~~~~tctgtcca~~~~~
Dana 286 agtactgtttccttgtagttatctctaaaaactctaactctgtaaggagagattaggatta
Dvir 248 att~~~~~tccacagtt~~~~~
Dmoj 284 att~~~~~tattcaatt~~~~~
Dgri 269 aatgcttctacattctacattcagtt~~~~~

Dmel 272 ~~~~~
Dsim 292 ~~~~~
Dsec 306 ~~~~~
Dyak 218 ~~~~~
Dere 280 ~~~~~
Dpse 244 ~~~~~tt~~~~~c~~~~~tagtt~~~~~cgtca~~~~~
Dper 254 ~~~~~tt~~~~~c~~~~~tagtt~~~~~cgtca~~~~~
Dana 346 tatgtgtttgaaacatcctatcactccttaggtaaaaatccttctttggtctagcgataag
Dvir 259 ~~~~~
Dmoj 295 ~~~~~
Dgri 294 ~~~~~

Dmel 272 ~~~~~
Dsim 292 ~~~~~
Dsec 306 ~~~~~
Dyak 218 ~~~~~
Dere 280 ~~~~~
Dpse 258 g~tag~~~~~c~ttccaaga~acataattcaaga~tc~gagctgtcccagctc~
Dper 268 g~tag~~~~~c~ttccaaga~acataattcaaga~tc~gagctgtcccagctc~
Dana 406 gatagaataagattctcatt~ttagctacctaagtcaagactttgaaaaat~ataaatca
Dvir 259 ~~~~~
Dmoj 295 ~~~~~
Dgri 294 ~~~~~

Dmel 272 ~~~~~
Dsim 292 ~~~~~
Dsec 306 ~~~~~
Dyak 218 ~~~~~
Dere 280 ~~~~~
Dpse 301 tgaaccattccat~~~~~tcagag~g~~~~~
Dper 311 tgaaccattcaat~~~~~tcagag~g~~~~~
Dana 464 t~ttccttcaaaaagaatagatcagagagccagagattggtaaaattatataaaaaag

Dvir 259 ~~~~~
Dmoj 295 ~~~~~
Dgri 294 ~~~~~

Dmel 272 ~~~~~
Dsim 292 ~~~~~
Dsec 306 ~~~~~
Dyak 218 ~~~~~
Dere 280 ~~~~~
Dpse 320 ~~~~~
Dper 330 ~~~~~
Dana 523 ttttggtttttaaaaggctttaattaataaaaaagagaagggcataatttcaaatcaatagg
Dvir 259 ~~~~~
Dmoj 295 ~~~~~
Dgri 294 ~~~~~

Dmel 272 ~~~~~
Dsim 292 ~~~~~
Dsec 306 ~~~~~
Dyak 218 ~~~~~
Dere 280 ~~~~~
Dpse 345 cccgagtttaaatgtcctgc~~~~~
Dper 355 cccgagtttaaatgtcctgc~~~~~
Dana 583 taattatacataaaaaatattaacaacatgatgtaacaattatctctctttattttattca
Dvir 259 ~~~~~
Dmoj 295 ~~~~~
Dgri 294 ~~~~~

AP1

<--DdcΔ2-- | | --DdcΔ3-->

Dmel 272 ~~~~~tactgattcagcgccca~~attaatgcatg
Dsim 292 ~~~~~tactgattcagcgctca~~atcaatgcatg
Dsec 306 ~~~~~tactgattcagcgccca~~attaatgcatg
Dyak 218 ~~~~~tactgattcagacccca~~atcaatgcatg
Dere 280 ~~~~~tactgattcagcccga~~attaatgcatg
Dpse 363 ~~~~~ta~ctgagaca~cgcgca~aattaatgcatg
Dper 373 ~~~~~ta~ctgagtc~cgcgca~aattaatgcatg
Dana 643 gataattataataaaaatataatacaaaaagatctgtattag~aagctcaact~ttacttg
Dvir 259 ~~~~~tcagttcagcga~~~~~t~~gagc
Dmoj 295 ~~~~~tcagttcagcgt~~~~~tt~tgaga
Dgri 294 ~~~~~tcagtttagcgaatgggcattgattaga

Dmel 301 ttccaaaaaagt~~gtcaaaaaac~~~~~gtgcacaaa~~~~~
Dsim 321 ttccaaaaaagt~~gtcaaaaa~~~~~
Dsec 335 ttgcaaaaaagt~~gtcaaaaaat~~~~~gtgcacaa~~~~~
Dyak 247 ttccgaaaaagt~~acaaaataaactctccgtgcagaacgtgc~~~~~
Dere 309 tttcgaaaaagtaaggaacaaa~~ctaaccgtgcagaacgtgc~~~~~
Dpse 391 ~ttccaaaat~~~~~aaca~accaaaaa~~at~~~~~ca~~~~~c~~~~~c~ag~~
Dper 401 ~ttccaaaat~~~~~aaca~accaaaaa~~at~~~~~ca~~~~~c~~~~~c~ag~~
Dana 701 ctttaaaaaatgttttaaagatataaaaaagatattgtttgccaattcagggtgtcgagtc
Dvir 276 ~~~~cga~~~~~gggtagc~~~~~
Dmoj 315 tttgcgatt~gaggaagc~~~~~
Dgri 322 ~ttgcgagtcgagtgtaac~~~~~

Dmel 331 ~~~~~tcaaa~~~~~
Dsim 340 ~~~~~g~~~~~
Dsec 364 ~~~~~a~tcaag~~~~~
Dyak 287 ~~~~~ataag~tcaac~~~~~
Dere 349 ~~~~~acaaa~tcaaa~~~~~
Dpse 421 aagagc~g~~~~~c~~~~~aa~~taacaaa~tcaaag~~a~gaatcgcacaca~a
Dper 431 aagagc~g~~~~~c~~~~~aa~~taacaaa~tcaaag~~a~gaatcgcacaca~a
Dana 761 actctcagattaattgaacttccaaaaaagtaacaaaatcaccgctaagaa~cgcacaca

Dvir 286 ~~~~~
Dmoj 332 ~~~~~
Dgri 340 ~~~~~

Dmel 336 ~~~cgagagctgaatttggtttttacgacagcggctgcgattcgaagttcagcggctgcg
Dsim 341 ~~~cgagtcagagaatgtggtttttacgacagcagcactgctatttgaagttcagcggctgcg
Dsec 370 ~~~cgagtgacagaatgtggtttttacgactgaggctgcgattcgaagttcagcggctgcg
Dyak 297 ~~~cgggtgaggatgtatt~~~~~aaaaatacattctcagtcgcccattgagattga
Dere 359 ~~~cgggtggagaatgt~~~~~atTTTTacataccgccc
Dpse 456 aca~~agttgagaatggtgcagtcggagccacggccgagcggct~~~~~
Dper 466 aca~~agttgagaatggtgcagtcggagccacggccgagcggct~~~~~
Dana 820 a~atcag~tgaaaatgatccgaaatccgagcaagtgcagaatttatttttaaaaaacagc
Dvir 286 ~~~~~
Dmoj 332 ~~~~~
Dgri 340 ~~~~~

TTK

GRH

<--DdcΔ3-- |

Dmel 394 act~~~~gcat~~~~~tgaaccggctcctgc~~~~~
Dsim 399 act~~~~gagat~~~~~tgaaccggctcctgc~~~~~
Dsec 428 act~~~~gagat~~~~~tgaaccggctcctgc~~~~~
Dyak 349 aat~~~~tgagat~~~~~tgaaccggctcctgc~~~~~
Dere 391 actgagatgagat~~~~~tgaaccggctcctgc~~~~~
Dpse 498 ~~~~~tgaaccggctcctgcttgggcccgtaccctgcccgatg~~
Dper 508 ~~~~~tgaaccggctcctgcttgggcccgtaccctgcccgatg~~
Dana 878 caaaaccgaagttcagcgggtcgaaccggctcctgc~~~~~
Dvir 286 ~~~~~aggtgaaccggctcctgaggctgct~~~~~ctcg
Dmoj 332 ~~~~~gagtgaccggctcctgaggctgca~~~~~ctcg
Dgri 340 ~~~~~aggtgaaccggctcctgaggctactctgagagctcggagctcg

Dmel 415 ~~~~~ggaattggcagcgcctgctggacgg~~~~~
Dsim 420 ~~~~~ggaattggcagcgcctgctgggagg~~~~~
Dsec 449 ~~~~~ggaataggcagcgcctgctgggagg~~~~~
Dyak 371 ~~~~~ggaattggcagcgcctgctgggagg~~~~~
Dere 417 ~~~~~ggaattggcagcgcctgctgggagg~~~~~
Dpse 535 ~~~~~cgggtggctgtgggct~gctgctgg~~~~~
Dper 545 ~~~~~cgggtggctgtgggct~gctgctgg~~~~~
Dana 912 ~~~~~gaaatgccga~~~~~
Dvir 315 aagctc~~~~~gctgctc~g~~cagc~acgcagctccaa~cgaggcgc~~~~~
Dmoj 361 cagctc~~~~~acaaagct~cacag~~~agcaggcggagcgaatcgaggcgcag~gcg
Dgri 383 gagctcgcacgactcacagct~cactgctca~ccactcgcagc~tctc~a~tctggtgcg

TATAAAA

Dmel 439 ~~~gctttaaaagccatggccaagagcgggcagcgc
Dsim 444 ~~~gctttaaaagccatggccaagagcgggcagcgc
Dsec 473 ~~~gctttaaaagccatggccaagagcgggcagcgc
Dyak 395 ~~~gctttaaaagccatggccaagagcgcagcgc
Dere 441 ~~~gctttaaaagccatggccaacagcgcagcgc
Dpse 558 ~~~gctttaaaagccttggccaagtgcgagcagcgc
Dper 568 ~~~gctttaaaagccttggccaagtgcgagcagcgc
Dana 922 ~~~gctttaaaagccttggccaagagcgcagcgc
Dvir 352 ~tgctttaaaagcgcgcccgaaagtgcgaccagcactcagttggctaac
Dmoj 409 atgctttaaaaggtcttgccgaacgacgagcagcac~~~~~
Dgri 438 atgctttaaaagcttggccgagcgcagcagcagcactcagttggctaac

ple-WE1

CREB

Dmel 1 ggttt~~~~gcgacacgtg~acgtaaaata~~~aactgaaaaa~~~caaac~~~~~
Dsim 1 ggttt~~~~gccgcacgtg~acgcaaaata~~~aactgaaaaa~~~caaac~~~~~
Dsec 1 gcttt~~~~gccgcacgtg~acgcaaaata~~~aactgaaaaa~~~caaac~~~~~
Dere 1 ggttt~~~~gccgcacgtg~acgcaaaata~~~aactgaaaaa~~~caaactgaaagaaa
Dyak 1 ggttt~~~~gctcgacgtg~acgcaaaata~~~aactgaaaaa~~~caaaccga~~~~~
Dpse 1 tgttt~~~~gtcgacgtggacgcaaaatc~~~aagagaaaagg~gaaaatcaaan~~~~~
Dana 1 ggttt~~~~ggcgcacgtg~acgtaaaatcga~~~~~caaac~~~~~
Dvir 1 tgatt~~~~gcggcacgtg~acgtaaaacca~aaacaaaattcacaagccc~~~~~
DMoj 1 cgggaacggacgcacggggacgcaaaaggcgcaaac~aaaaaaaa~tcac~~~~~
Dgri 1 tgagaa~tcac~~~cacgtg~acgcaaaatca~aac~aaaaaatcaccaccaacgatgt

Dmel 40 ~~~~~agaaaaaacaaacaaaaaatg~~~tccaaaacc~~~aaaaca~a
Dsim 40 ~~~~~aaaaaactgg~cataaaaca~~~~~aacc~~~aaaaca~a
Dsec 40 ~~~~~aaaaaactgg~cataaaaca~~~~~aaca~a
Dere 50 ctaaaaaaaaaaac~aaacaaaaaatgg~cataaaaca~~~~~aacc~~~aaaaca~a
Dyak 44 ~~~~~aaaaaaggcaaacaaaaaatgg~cataaaaca~~~~~aacc~~~aaaaca~a
Dpse 48 ~~~~~nnnnngggcaaaatgtag~~~tag~~~ataaaaaa~~~~~ccataaccagaaaacaaa
Dana 32 ~~~~~aaaaaatcata~~~~~agtgg~~~~~aataagccaatctaaacc~aa~aaca~a
Dvir 46 ~~~~~aaaagacaaatcaaaaaa~~~~~caaaaaagaaaaga
DMoj 49 ~~~~~agg~~~~~agtaaag~~~~~aaacccaaaaact~~~
Dgri 54 ~~~~~ccaaaggc~~~aaatcaaaata~~~ataaa~~~~~cacaacaaa

Dmel 78 aca~~~~aaat~~~acgaaa~~~~~tgcgaa~~~cgag~~~~~gcgcgcggtatatt
Dsim 71 aca~~~~aaat~~~acgaaa~~~~~tgcgaa~~~cgag~~~~~gcgcgcggtatatt
Dsec 66 aca~~~~aaat~~~acgaaa~~~~~tgcgaa~~~cgag~~~~~gcgcgcggtatatt
Dere 96 aca~~~~aaat~~~acgaaaatcgaatgcgaa~~~cgag~~~~~gcgcgcggtatatt
Dyak 87 aca~~~~aaat~~~acgaaa~~~~~tgcgaa~~~cgag~~~~~gcgcgcggtatatt
Dpse 95 cca~~~~aaat~~~gcgaac~~~~~gagacgcgaggcgcgaggcgcaccgcgcggtatatt
Dana 74 acacgaaaaacaaaacgaaa~~~~~tgcgaa~~~cgagg~~~~~cgcgcggtatatt
Dvir 79 aaa~~~~aaaa~~~ac~aaa~~~~~gttgag~~~cgcggt~~~~~cgcggggtatatt
DMoj 72 ~~~~~caaaacaaa~~~~~gccagg~cggtgtgc~~~~~gtgtttgctatatt
Dgri 89 at~~~~~aaa~~~aacaaaa~~~~~aaacaga~aagcgt~~~~~gcgcggtgctatatt

Dmel 115 tgcataattcaac~~~aa~~~~~ttttacggctaaatgcgggca~~~~~
Dsim 108 tgcataattcaac~~~aa~~~~~ttttactgctaaatgcgggca~~~~~
Dsec 103 tgcataattcaac~~~aa~~~~~ttttactgctaaatgcgggcc~~~~~
Dere 141 agcataattcatttgaa~~~~~ttttactgataaatgcgggca~~~~~
Dyak 124 tgcataattcaaatgaa~~~~~ca~~~~~ttttactgataaacgcgggca~~~~~
Dpse 144 tgcataattcaaatgaa~~~~~caatttttattgctaaatgcgagagatacagag
Dana 118 tgcataattcaaatgaa~~~~~caa~ttttactgctaaatgcgggcgata~~~~~
Dvir 116 tgcataattcaaatgaa~~~~~atcaatt~~~gacggctaaatgcgagac~~~~~
DMoj 109 ggcataattcaaatcaaatccaatcaaatcaatttgtat~~~ccaaatgcaaac~~~~~
Dgri 128 tgcataattcaataaaa~~~~~aacgattt~~~gttggttaa~~~~~

Dmel 149 ~~~~~ataaaa~~~~~acacagcatc~~~~~agtttag
Dsim 142 ~~~~~ataaaa~~~~~acacagcatc~~~~~agtttag
Dsec 137 ~~~~~atat~~~~~aaacagcatc~~~~~atgtggttagattca~
Dere 177 ~~~~~ataaaa~~~~~acacagcatc~~~~~aggcag
Dyak 162 ~~~~~ataaaaaacacacacagcatc~~~~~aggcag
Dpse 192 atgtacggagagatacagatacagatacagatacagttgcagataaccagcccagctatag
Dana 160 ~~~~~aaaag
Dvir 156 ~~~~~aaaaca~~~~~aagctaa
DMoj 159 ~~~~~aaaacaaa~~~~~gctaa
Dgri 160 ~~~~~

AP1

GRH

Dmel 172 ccgg~cgtcatctttggccca~aag~tgtgattcagcacc~aaacgagtt~
Dsim 165 ccgg~cgtcatctttggccca~aag~tgtgattcagc~ccc~aaacgagtt~
Dsec 165 ~cgg~cgtcatctttggccca~aag~tgtgattcagc~ccc~aaacgagtt~
Dere 200 ccgg~cgtcatctttggccca~cag~agtgaatcaga~ccc~aaacgagtt~
Dyak 189 ccgg~cgtcatctttggcccc~cag~tgtgaatcagc~ccc~aaacgagtt~
Dpse 252 ccgg~cgtcatctttggcccc~cag~tgtgaatcagc~cat~aaacgagttc

Dana 166 ccgg~cgtcatctttgg~cca~~~~~gtgaatcagc~cgcg~~~~~aaacgagtt~
Dvir 170 acgg~cgtcatctttgggcca~~~~~gtgaatcaac~cgc~a~~~~~aatccagttc
DMoj 173 atgaacgtcaggctcgggcca~~~~~gtgaatcagagccc~atgaacgaaatccagttc
Dgri 161 acag~cgtcatccgctgacca~~~~~gtgaatcagctctcga~~~~~aatccagttc

Dmel 219 gat~~~~cttggga~aagcggag~~~~~gagcggag~at~~~~~
Dsim 211 gat~~~~cttaga~aagcggag~~~~~gagcggag~at~~~~~
Dsec 213 gat~~~~cttaga~aagcggag~~~~~agaggggag~at~~~~~
Dere 246 gat~~~~cttaga~aagcggag~~~~~gagcggag~at~~~~~
Dyak 235 gat~~~~cttaga~aagcggag~~~~~gagcggag~at~~~~~
Dpse 298 gatatgacttaga~aagcggcca~~~~~tccgcccgggagggggcagcgcggggacggtag
Dana 208 gat~~~~cttaga~aagcgg~cgtcaggtggaga~gtggtgtcaagacccacccacctc
Dvir 214 gat~~~~~aagctcta~~~~~attggtatt~ggaga~~~~~
DMoj 226 gat~~~~~aagcacta~~~~~attgg~attggagagtgg~~~~~
Dgri 207 gat~~~~~gataagcacta~~~~~attgatgt~~~~~gaga~t~~~~~

AP1/CREB/EXD

Dmel 245 ~tcccccgaca~gcatcttcg~g~~~~~tttcca~ca~~~~~gcacgtgattgaca
Dsim 237 ~tccccgcgg~gcatcttcg~g~~~~~tttcca~ca~~~~~gcacgtgattgata
Dsec 240 ~tccccgcggcagcgcgcatcttcg~g~~~~~tttcca~ca~~~~~gcccgtgattgata
Dere 272 ~ccccgcct~ccgaacttcg~g~~~~~tctcca~ca~~~~~gcacgtgattgaca
Dyak 261 ~ccccgcct~ccgaacttcg~g~~~~~tttcca~ca~~~~~gcacgtgattgaca
Dpse 353 agacga~cgcgt~~~~~cgtccag~~~~~tctctaa~~~~~gtg~gcacgtgattgata
Dana 261 ccc~~~~~accgcttcccagaccctgatccaatcacgtg~ccacgtgattgata
Dvir 238 ~~~~~~gtgga~~~~~gcatgggattgata
DMoj 253 ~~~~~~tgggcatatcgaattatgata
Dgri 233 ~~~~~~agcatttgtgagattgtctgggtttattgata

Dmel 289 tatcatcgtcaagtggg~g~~~~~aag~~~~~tggactcccccttt~~~~~
Dsim 281 tattatcgccaagtggg~g~~~~~atg~~~~~tggactcccccttt~~~~~
Dsec 285 tattatcgccaagtggg~g~~~~~aat~~~~~tggactcccccttt~~~~~
Dere 314 tatcatcgccaagtga~~~~~tggactcccccttt~~~~~
Dyak 303 tatcatcgccaagtggggaaggtggcagctggatg~~~~~tggactccccctttgg~
Dpse 395 catcagcgtgttgtgtgga~~~~~tggag~~~~~tggagtccccgcg~~~~~
Dana 309 catcatcgcaaattggg~g~~~~~act~ccccctcggaatc
Dvir 258 tatca~~~~~aatcccccccatc~~~~~
DMoj 275 tgtc~~~~~catttagcattctgatcgac~~~~~
Dgri 266 tgtgagttggg~g~~~~~tttccatacaacacaccacgcccc~~~~~

Hox

Dmel 324 ~~~~~~cgacagctcat~cgccgtgga~~~~~ataata~~~~~ct
Dsim 316 ~~~~~~cgacagctcat~cgccgtgga~~~~~ataata~~~~~ct
Dsec 320 ~~~~~~cgacacctcat~cgccgtgga~~~~~ataata~~~~~ct
Dere 343 ~~~~~~cgacagctcat~cg~aatgga~~~~~atagca~~~~~ct
Dyak 352 ~~~~~~cgacagctcat~cgccatgga~~~~~ataaca~~~~~cc
Dpse 433 ~~~~~~atcgcaactctgacagctcat~ccacatgga~cactccgctccgggtgtggct
Dana 344 tgaacgta~ccgatcccgccagctcaggccccctggc~~~~~cagctc~~~~~atcgatct
Dvir 278 ~~~~~~atattgacgggctctga~~~~~cagcg
DMoj 298 ~~~~~~tgacggagcggactgattgactgattgaa~~~~~
Dgri 302 ~~~~~~acccaacctccagttgga~~~~~cagttaac~

Dmel 353 agccga~~~~~cttcgatttgggaaagcaaaacctc~
Dsim 345 agccga~~~~~cttcgatttgggaaagcaaaacctc~
Dsec 349 agtggga~~~~~cttcgatttgggaaagcaaaacctc~
Dere 371 agccga~~~~~tcgacttcgatttgggaaagcaaaacgtc~
Dyak 381 agccga~~~~~tgcctccaacgacttcgatttgggaaagcaaaacctc~
Dpse 483 ~ccgattgtggctcctattgtggctccgat~tggggcatttgggaaagcaaaacctc~
Dana 395 ggccgg~~~~~cttcgatttgggaaagcaaaacctc~
Dvir 301 cacagctgaaactt~~~~~gtggcgatttgggaaagcaaaacctc~
DMoj 326 ~~~~~~tgtattttgcaatttgggaaagcaaatcctcg~
Dgri 330 ag~~~~~ggactgtgaattgggaaagcaaaacctcgg

		Hox	Hox	EXD	Hox
		----	-----	----	-----
Dmel	383	~~~aatattatacaataaattagcaacaa~~~~~	aaatgattgcccac~tcgtaattaa		
Dsim	375	~~~aatattatacaataaattagcaacaa~~~~~	aaatgattgcccattgtggtaattaa		
Dsec	379	~~~aatattatacaataaattagcaacaa~~~~~	aaatgattgcccatttcgtaattaa		
Dere	405	~~~aatattatacaataaattagcaagaa~~~~~	aaatgattggccatttcgtaattaa		
Dyak	423	~~~aatattatacaataaattagctacaa~~~~~	aaatgattgcccatttcgtaattaa		
Dpse	538	~~~aatattatacaataaattagcaacaa~~~~~	aaacgattgcccatttgtaattaa		
Dana	425	~~~aatattatacaataaattagcagcaa~~~~~	aaatgattgcccatttgtaattaa		
Dvir	340	~~~gatattatacaataaattagcaacaa~~~~~	aaatgattgcccatttgtaattaa		
DMoj	359	atataatattatacaataaattagcaacga~~~~~	aaatgattgccaagttgtaattaa		
Dgri	362	ttcgatattatacaataaattagcaaaaaataaaaaacgaatgattgcccattttgtaattaa			

		Hox

Dmel	432	tgcacataattg~~~~~ccgcgccagattgctgcccgtagaatgtagctcg
Dsim	425	tgcacataattg~~~~~ccgcgccagattgctgcccgtagaatgtagctcg
Dsec	428	tgcacataattg~~~~~ccgcgccagatagctggcgtaaaatg~~~~~
Dere	454	tgcacataattg~~~~~ccgcgccagattgctgcccgtagaacgtacatat
Dyak	472	tgcacataattg~~~~~ccgcgccagattgctgcccgtagaatgtagctcg
Dpse	587	tgcacataattg~~~~~cc~cg~tagattgggtgtagtagcagtag~~~~~
Dana	474	tgcacataattg~~~~~ctgggccagattgggtgcccgtagaatgtagctcg
Dvir	389	tgcacataattg~~~~~ttagccagatcga~~~~~ttagaatagtattt
DMoj	411	tgcacataattgtagaattggtgaattgtgagccagatcga~~~~~ttagaacga~~~~~
Dgri	422	tgcacataattg~~~~~tgagccagatcga~~~~~ttagaata~~~~~

Dmel	477	ctagaatg~~~~~gagtaaaaaatacaaaaaaaaaaaaaaaaaaaaaa
Dsim	470	ctagaatg~~~~~gagtaaaaaatac~~~~~aacaacaaaaaa~taaa
Dsec	465	~~~~~gagtaaaaaatac~~~~~gaaaaaaaa~taaa
Dere	499	tcattatcgcttagattgtcgggta~~~~~cctaccct~gtacggcaaaaaacaaaa
Dyak	517	ctagagtgaggataa~~~~~ctaaca~~~~~aatgaacaaaaa~~~~~a
Dpse	624	~~~~~aatggaaaaaaaaa~~~~~
Dana	519	at~~~~~agaatggaaaaaaaaataaaaaataaaaaa~~~~~tac
Dvir	429	gtagtagt~~~~~agtagtagcagctgtaattgggaaaaaaaaa~~~~~
DMoj	460	~~~~~ctcgctatgtaattggcaaaaaa~~~~~
Dgri	455	~~~~~aaaataactagttaagtaattgggaaaaaaaaa~~~~~

		Hox	Hox
		----	----
Dmel	520	taaaaacag~~~~~aattgagaatttttgaaatggactcttaattgtatttatta	
Dsim	507	taaaaacag~~~~~aattgagaatttttgaaatggactcttaattgtatttatta	
Dsec	492	taaaaacag~~~~~aattgataatttttgaaatggactcttaattgtatttatta	
Dere	550	aaaaaacag~~~~~aattgagaatttttgaaatggactcttaattgtatttatta	
Dyak	550	aaaaaacag~~~~~aattgagaatttttgaaatggactcttaattgtatttatta	
Dpse	637	~~~~~tataaaaaatgagaatttttgaaatggattcgtattgta~ttatta	
Dana	550	aaaaagcagcaaaaattataaaaaatgagaatttttgaaatggattcgtattgta~ttatta	
Dvir	463	~~~~~tgtttataaaaaatg~~~~~tttttcaaatggatttttaattgta~ttatta	
DMoj	482	~~~~~ttgtaaaaaatg~~~~~tttttataaaatcgtttttaattgta~ttatta	
Dgri	483	~~~~~ttataaaaaatg~~~~~ttttataaaatggatttttaattgta~ttatta	

		Hox	Hox	Hox
		----	----	----
Dmel	570	attgcgcttaattgaattatgaataaatatattttgct~~~~~		
Dsim	557	attgcgcttaattgaattatgaataaatatattttgct~~~~~		
Dsec	542	attgcgcttaattgaattatgaataaatatattttgccc~~~~~		
Dere	600	attgcgcttaattgaattatgaataaatatattttacctgc~~~~~		
Dyak	600	attgcgcttaattgaattatgaataaatatattttgctg~~~~~		
Dpse	683	attgcacttaattgaattatgaataaatatatttaatttgattcat~~~~~		
Dana	609	attgcgcttaattgaattatgaataaatatattta~gtggccgcct~~~~~		
Dvir	509	attgcacctattcaattatgaattatatttgatt~~~~~catacaaaagcattgcca		
DMoj	526	attgcacctattcaattatgaataaatatatttgatt~~~~~catacaaaagact~~~~~		
Dgri	525	attgcacctattcaattatgaataaatattctatttc~gattcatacaaaagcattgcca		

Dmel 606 ~ccccct~~~~~aggaagt~~~~~gccg~~~~gtaca~~~~~
Dsim 593 ~ccccct~~~~~aggaagt~~~~~gccg~~~~ggtaca~~~~~
Dsec 579 ~ccccct~~~~~aggaagt~~~~~gccg~~~~tctaca~~~~~
Dere 636 ~cccc~~~~~~aggaagt~~~~~gccg~~~~gtaca~~~~~
Dyak 638 ~ccccct~~~~~aggaagt~~~~~gcag~~t cagtaca~~~~~
Dpse 725 ~~~~~~aggaagt~~~~~~~~~~ggagtc~
Dana 650 ~~~~~~aggaagt~~~~~~~~~~gcggtc~
Dvir 561 cagcccttgcagctca~gcatattaaagactacgcaaagaaaataaaaaaaaaaagacag
DMoj 573 ~~~~~~atggttt~~~~~aaa~aacgaa~~~~~acag
Dgri 583 tagcccttgc~~~~~~~~~~gcttgcaacaaaagacgacgaaa

Dmel 628 ~~~~~~gtcctaccacagatccg~~~tattctcggaagtcccc~~~~~ag
Dsim 616 ~~~~~~gtcctaccacagattcg~~~tattctcggaagtcccc~~~~~ag
Dsec 602 ~~~~~~gtcctaccacagattcg~~~tattctcggaagtcccc~~~~~gac
Dere 657 ~~~~~~gtcctaccacagattcg~~~tattctcggaagtcccc~~~~~ag
Dyak 663 ~~~~~~gtcctaccgcagattcg~~~tattctcggaagtcccc~~~~~ag
Dpse 738 ~~~~~~cctgcaacagattcactatattctcggaagtttt~~~~~tg
Dana 663 ~~~~~~ctagc~acagatttg~~~agttctcggaagttttcc~~~~~aa
Dvir 620 aatgg~~~~~aacagat~~~~~tattctaggaagttgcca~~~~~gaa
DMoj 595 aaaaaa~~~~~cccaaagat~~~~~tattataggaagttaa~~~~~aa
Dgri 617 aaaagcacgcagaatagaaaagat~~~~~tattctaggaagttgcttagtaaacacagaa

Dmel 665 caagggcatcc~~~~~gacgagg~~~~~gctgg
Dsim 653 caagggcatcc~~~~~gacgagg~~~~~gctgt
Dsec 640 caagggcatcc~~~~~gacgagg~~~~~gctgg
Dere 694 caagggcatcc~~~~~aacgagg~~~~~gctgg
Dyak 700 caagggcatcc~~~~~aacgagg~~~~~gctgg
Dpse 775 caagggcacac~~~~~gacgagg~~~~~gctgg
Dana 699 caagggcgttc~~~~~gacgagg~~~~~gctgg
Dvir 653 caagggcaaaactgtgtacttgagcagccagagagagctc~~gagacggc
DMoj 628 caagggcaaaa~~~~~actagaggaact~~tgagaactcgactcaaggc
Dgri 671 caagggcaac~~aatagacttgaggaact~~ttagaactcg~~~aaggc

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Dmel 1 caacaaaggattgaagggaaatatatgc~~~~~tctgc~~gaatgaattaa~~ata~t
Dsim 1 cagcaacggattggcggaataacttggccttagatcgac~~gaatgaattat~~tta~t
Dyak 1 tttatatggtcggaacgcttctctctgctgttacatacttttcaacgaatctagtata
Dere 1 ~~~~~~
Dpse 1 ~~~~~~
Dper 1 ~~~~~~
Dana 1 ~~~~~~
Dvir 1 CAATTTCCCTTTAGAAATGCCATTGGTGGGGGGAAGTTTTTTTTGGGACCCGCCCGCTTA
Dmoj 1 ~~~~~~
Dgri 1 tcaataagcttttatttcggttgatttaactatttaggaatttgaatcatctctcgatc

Dmel 49 tcacttttttaggagatac~~~~~
Dsim 56 tcactttttggaaggtacatttgttaaaatgt~~~~~
Dyak 61 cccttttactctacgagtaacgggtataataatcttccccctttgatttaaaggatgtaa
Dere 1 ~~~~~~
Dpse 1 ~~~~~~
Dper 1 ~~~~~~
Dana 1 ~~~~~~
Dvir 61 AATAAATAAAAAATTTTTTTTTTATAAATTTTCAATTTCCCTTGTGTCTGGGGGCGGTAG
Dmoj 1 ~~~~~~ct
Dgri 61 accttgtgaagtaggcgtagtgaaatgaaaagcaaagtgatccaatattttggtgcaa

Dmel 66 ~~~~~~g~~~~~taaactaatttttctgtgcacataaaggctatgtatgcggttaa
Dsim 87 ~~~~~~a~~~~~taaactgaatctttctgtgcacagatacggctgtgtatccggtcgaat
Dyak 121 acaatatattgcataaaactgatttttctgtgcaccataaaggtaagtatccggtccgaat
Dere 1 ~~~~~~taaactgatttttctgtgcaccgatgaaggatgtatccgcccgaat
Dpse 1 ~~~~~~aa

Dere 242 ~~~~~gtggcgcacaaattgattgctacacttaagccaactagtcaaaacgggaacgcgg
Dpse 244 t~~~ggtggcgcataaattgattgctacatttaagccaactagtcaaaacgggaacacgg
Dper 245 t~~~ggtggcgcataaattgattgctacatttaagccaactagtcaaaacgggaacacgg
Dana 221 tggggctggcgcataaattgattgctacatttaagccaactagtcaaaacgggaacacgg
Dvir 428 ~~~~~AAATTGATTGCTACATTTA~~~~~ACAACGGAAACAA~~
Dmoj 304 ~~~~~aaattgattgctacattta~~~~~acaacggaaacga~~
Dgri 403 ~~~~~aaattgattgctacattta~~~~~acaacggtaacga~~

Dmel 391 c~~~~aaccga~~~~~agc~~~~~ggccacgccaa
Dsim 412 c~~~~aaccga~~~~~agc~~~~~ggccacgccaa
Dyak 438 ~~~~~ggccccgccaa
Dere 298 c~~~~agtgcg~~~~~agc~~~~~ggccacgccaa
Dpse 301 c~~~~cgaaccggcccagacctg~~~~~ggccacgccag
Dper 302 c~~~~cgaaccggcccaggctg~~~~~ggccacgccag
Dana 280 ~~~~~c~aatcg~~~~~aacc~~~~~ggccacgccag
Dvir 460 ~AATCGAACCAATCGAACCAAAACGTGT~~~~~CCAAACCGGCCACGCCAA
Dmoj 336 ~aaacgaaccaatcgaaccgacgaatggaccgacccaccagccaaacgggccacgccaa
Dgri 435 ~aaccgcacaaatcgaaccaatcgc~~~~~caaaccggcccacgccaa

GRH

Dmel 412 ccagctgcctactgc~~~~~tattgccgatcgccgatcgctggttgcagttgctga
Dsim 433 ccagctgcctactgcctgctgctattgccgatcgccgatcactg~~~~~gctgctgat
Dyak 450 ccagctgcctactac~~~~~tcttgccgatcgccgatt~~~~~
Dere 319 ccagctgcctactgc~~~~~tattgccgatcgacgatt~~~~~
Dpse 331 gcagcagctgcccagctgctgcccagctgctgct~~~~~
Dper 332 gcagcagctgcccagctgctgcccagctgctgct~~~~~
Dana 302 ccagctgctgattgc~~~~~
Dvir 505 GCTGTCCGGCTGTCCGGCAGTCCGACAACCTGAGTCCAACCTTGTATTATAAGCGTTGCTAA
Dmoj 396 gccggacagccagcaacagcaacagcagctgccgcagcaactgcgtccgacttgtatcat
Dgri 477 gctcttggccaacaacaaaactgcagcggccaagactcgtatcatgag~~~~~

Dmel 464 ttgctgattgccgatggccggacaaccagtttt~~~~~cggcggacaac
Dsim 486 t~~~~gcccggacaaccagtttt~~~~~cggcggacaac
Dyak 482 ~~~~~gcccggacaaccagtttt~~~~~cggcggacaac
Dere 351 ~~~~~gcccggacaaccagtttt~~~~~cggcggacaac
Dpse 364 ~~~~~cggacaaccagttct~~~~~cggtgcccaac
Dper 365 ~~~~~cggacaaccagttct~~~~~cggtgcccaac
Dana 316 ~~~~~cggacaaccagtttt~~~~~tggtggacagc
Dvir 565 C~~~~CAACCAGTTTTTAATA~~~~~GAGTAC
Dmoj 456 aagacag~~~~~agaccagtttct~~~~~tgctggagtac
Dgri 524 ~~~~~caaccagttttaacatttttttttttttaacagtagtac

Dmel 508 aggaaaagccagcgaactgcg~~~~~gccaagaaatagcgccaatat~~~~~gactgaaa
Dsim 515 aggaaaagccagcagactgcg~~~~~gccaagaaatagcgccaatat----gactgaaa
Dyak 511 aggaaaagccagcaggtacg~~~~~gccaagaaatagcgccaatat----gactgaaa
Dere 380 aggaaaagccagcagactgcg~~~~~gccaagaaatagcgccaatat----gactgaaa
Dpse 391 aggaaaagccagcgcctcttggccaagccaagaaatagcgccaataa----gactgaaa
Dper 392 aggaaaagccagccacctcttggccaagccaagaaatagcgccaataa----gactgaaa
Dana 343 aggaaaa~~~~~ccaagaaatagcgccaataaataagagtaaaa
Dvir 588 CACAGGAACAGTGAGCGACTTGAAACGTA~~~~~
Dmoj 485 aacaggaacaataagcgactttaaaag~~~~~
Dgri 563 aggaaaatgc~~gatcgacttgaaaag~~~~~

Dmel 558 tagtagcatta~~~~~tgcgaaaa~~attgcat~gccaagcaa~~gccgg~aacgaacgg
Dsim 565 tagcagcatta~~~~~tgcgaaaa~~attgcag~gccaaccaa~~gccgg~aacgaacgg
Dyak 561 aagcaggcatta~~~~~tgagaaaa~~attgcag~gccaaccaa~~gccgg~aacgaacgg
Dere 430 tagcaggcatta~~~~~tgcgcaaaa~~attgcag~gccaaccaa~~gccgg~aacgaacgg
Dpse 447 ttgt~~~~~aa~~attgcaa~tcgaagcaa~~gccgg~aacgg~~~~~
Dper 448 ttgt~~~~~aa~~attgcaa~tcgaagcaa~~gccgg~aacgg~~~~~
Dana 383 ttgt~~~~~aagcatt~~aagt~gaa~aaattgcaggcaagttaag
Dvir 616 ~~~~~TGCGAAAAACATGCCCAAACATAAAA~~~~~GATAAAAGT~AGCA
Dmoj 511 ~~~~~tggcattgcgcaaaacatgcccaaa~caatgactgcgataatggccagca

Dgri 587 ~~~~~~ta~~~~~tgcgcaaacatgcccaaacatgacaaataatggcagcagtaa
Dmel 608 c~~gggtgaattgg~~~tgg~~tgacatggacaagacggggcaagttttggagtggcgat
Dsim 615 c~~gggtgaattgg~~~tgg~~tgacatggccaagacggggcaagttttggagtggcgat
Dyak 611 c~~gagtgaat~t~~~~tgg~~tgacatggccaagtcgggacaagttttggagtggagat
Dere 480 c~~gagtgaat~t~~~~tgg~~tgacatggccaagacggggcaagttttggagtggcgat
Dpse 478 ~~~~~aacgaagcgaca~tgg~~tgacatggctgagatggggaaggcaggctctg~at~~~
Dper 479 ~~~~~aacgaagcgaca~tgg~~tgacatggctgagatggggaaggcaggctctg~at~~~
Dana 421 ccggaacgaa~ctacaatgg~~tgacatagccaagatg~~~~tggcaggctctggaggag
Dvir 656 ACAAATGCTGTCAGAATAGTGACATAGGAAGGTAATATGGACTAAACCGATTATACAAT
Dmoj 561 atgaatatgatcagaacgggtgaacatggcagggcagcatgatctagctgcatcaatgtg
Dgri 634 atgtggccagaatgccgcatagaaaggcaatatgaaccgaacgggtatataaatggctta

Dmel 661 c~~~~~cggggagggacaaccatgggtgtgtgggttcaatgcg
Dsim 668 c~~~~~cggggagggacaaccatgggtgtgtgggttcaatgcg
Dyak 661 c~~~~~cggggagggacatccatgggtgtg~~ggttcaaagcg
Dere 530 c~~~~~cggggaagggcatccatcgggtgtg~~ggttcgaggcg
Dpse 528 tcgggtggcacggtagcaaggggtcgggcaggggtt~ccatgggtgtgggttcagatc~ac
Dper 529 tcgggtggcacggta~~~~~gcaggggtt~ccatgggtgtgggttcagatc~ac
Dana 474 t~ggagggac~t~ggaatgggt~g~tggag~ccagtggt~~~~~cag~tccac
Dvir 716 TGTTTTAAAGTAATTCTGAATAAATGGAGAATAGTTCAGGTATATCGGTTTCAGGTATT
Dmoj 621 ggttcaatcaattgtgctataaatgctgtatataatcttctgtaaaatgggtc~~~~~
Dgri 694 accactgcaatcgaggtgtgggttcaatgggcattgactgactgaccactggt~~~~~

Dmel 699 cagtggtcagctggctgggttggctcaagtcaacttactcaaacatcgatttatgctt
Dsim 706 cagtggtcagctggctgggttggctcaagtcaagtactcaagccatcgatttatgctt
Dyak 697 tagtggttagcttgcctgggttggctcaagtcaagtactcaagccatcgatttatgctt
Dere 566 cagtggtcagctggctgggttggctcaagtcaagtactcaagccatcgatttatgctt
Dpse 586 tgggaattgaccatttaagtt~~~~~attgatttatgcat
Dper 575 tgggaattgaccatttaagtt~~~~~attgatttatgcat
Dana 515 tgg~atcggccatttaagct~~~~~attgatttat~~~~
Dvir 776 TGCGCTTAACATATGGTTTTTACATATAAGCAGAGCTAGTGCAATTCTTGAATTCCTCCAT
Dmoj 673 ~~~~~~
Dgri 746 ~~~~~~

Dmel 759 gccacgac~~~aga~gagccacaattgcttgaaggttgctgcaatccgattgcaggaat
Dsim 766 gccacgac~~~gga~gagccacaattgcttgaaggttgctgcaatccgattgcaggaat
Dyak 753 gccacaac~~~gga~gagccataattgcttgaaggttacctgcaatccgattgcaggaat
Dere 622 gcctcaac~~~gga~gagccacaattgcttgaaggttgctgcaatccgattgcaggaat
Dpse 620 gctacggccagagtggtgctgctgctgctgaaggttgctgcaatccgattgcaggaat
Dper 609 gctacggccagagtggtgctgctgctgctgctgaaggttgctgcaatccgattgcaggaat
Dana 543 ~~~~~~gt~~~~~t~tatttgaaggttgcc~~~~~t~~~~~g
Dvir 836 GCAGTTCAACAAACCTCAATTTCTTTCAAGACCTGTCAATTAAGAGTTTTTGC~~~~~
Dmoj 673 ~~~~~~
Dgri 746 ~~~~~~

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AP1

Dmel 815 accagttgctatcgatccggg~~~~~tgattcatggctgcgcatgc
Dsim 822 accagttgctatcgaccggg~~~~~tgattcatggctgcgcatgc
Dyak 809 accagctgctatcgaccggg~~~~~tgattcatggctacggatgc
Dere 678 accagttgctatcgccccgga~~~~~tgattcatggctgctgcatgc
Dpse 677 gaatgccaccttgaggggatt~~~~~ggcttgtatgaatca~~~~~tagg
Dper 666 gaatgccaccttgaggggatt~~~~~ggcttgtatgaatca~~~~~tagg
Dana 564 gaat~~~~~ct~~~~~gattgcccggagtactagtacagatgactca~~~~~
Dvir 889 ~~~~~~
Dmoj 673 ~~~~~~
Dgri 746 ~~~~~~

Dmel 856 cagacgatccatcttggaggtgcacctagcagctagcaccagctcgaa~agatcgccaa
Dsim 863 cagacgatccatcttggagctgcacctagcagctagcaccagctcgaa~agatcgccaa
Dyak 850 cagacaatccatcttggagcgc~~~~~gca~~tagcaccagctcgaa~agatcgctta
Dere 719 cagacgatt~~~~~caccactc~aagagatcgctta

Dpse 717 tatagatctttggccatacagagtattcctagaaattaagttcaattcagttaaagaaaag
Dper 706 tatagatctttggccatacagagtattcctagaaattaacctaagttcagttaaagcaaag
Dana 599 ~~~~~caggcatttga~~~~tgtgtggaagctgcacccaacttgagttaaag~~~~~
Dvir 889 ~~~~~
Dmoj 673 ~~~~~
Dgri 746 ~~~~~

Dmel 915 tcga~gct~tgga~gagcttactccgctcgatttgagcactggataaatttgtaaagtttt
Dsim 922 tcga~gct~tgga~gagcttactccgagatttgagcactggataaatttgtaaagtttt
Dyak 902 tgaa~gctatcaaaagagcttac~actctgctttaa~~~~~gcaaagtttt
Dere 750 ~ccatgct~ttgga~gagcttactccgctgatttaagctctggataaatttgtaaagtttt
Dpse 777 catttgctaaagtcgaggcagat~~~~~
Dper 766 catttgctaaactcgaggcagtttatggggataaaagagattctaaaagaagctatatatt
Dana 642 ~~~~~
Dvir 889 ~~~~~
Dmoj 673 ~~~~~
Dgri 746 ~~~~~

Dmel 972 ggttatcacattttcattggttaacaatttgcaac~~~~~
Dsim 979 ggttatcacattttcattggttaacaatttgcaa~~~~~
Dyak 946 agttatcacattttc~ttgcetaacaatttgaaa~~~~~
Dere 808 agttatcacattttcattggttaacaatttgcaa~~~~~
Dpse 799 ~~~~~ctacttgaccctacaaacagggtcagtatctatggaagtatc
Dper 826 ctgggaattataaaataaaaactacttgactctacaaacaggccagtatctaaggaagtatc
Dana 642 ~~~~~taagatgatattcaagt
Dvir 889 ~~~~~
Dmoj 673 ~~~~~gagaatgt~~~~~
Dgri 746 ~~~~~aacgggtt~~~~~

Dmel 1005 ~~~~~ttaacattgagccgataata
Dsim 1012 ~~~~~ttaacattgagccgataata
Dyak 978 ~~~~~ttaacataca~ccgataata
Dere 841 ~~~~~ttaacataaaaaccgataata
Dpse 841 tttatgggatctatggctatcatctgtagagtagtttcaattaacattcgactgataatt
Dper 886 tttgtgggatctatggctatcatctgtagagaagtttcaattaacattcgactgataatt
Dana 660 ctgtttcaataaaactttgagtggtatagacaacagtttaattaacagtgagttgataatt
Dvir 889 ~~~~~
Dmoj 681 ~~~~~attatggttgagaatgggtt
Dgri 754 ~~~~~ggcaataggaagtattgccc

Dmel 1026 aatgctaagtttg~aatg~~~~~
Dsim 1033 aatgctaagtttg~attg~~~~~aa
Dyak 998 ggtggtaggtag~agtgtctggactgaatctttaaaatacttcttttaa~~~~~
Dere 862 tatgctaag~ttgcagtg~~~~~tatatataaaaacaccactttt~aa~~~~~
Dpse 901 tacattttaaagctaataaacaataatacaaaaagcaaatcgaatttcagcttttcaaa
Dper 946 tacattttaaagctaataaacaataatacaaaaagcaaatcgaagttccagcttttcaaa
Dana 720 ttcctt~~~~~
Dvir 889 ~~~~~
Dmoj 702 gagaacgattgctgcatactcgagaagtattacc~~~~~
Dgri 775 acgagctataaaacaaaatggacgagtggtgggacccggaatgggaagttttttaaatg

Dmel 1043 ataaaacattcgaaactattg~aaaat~~ttgaag~~~~~tttc~aaa~tatttttc
Dsim 1052 aaaacacattcgaaactattg~aaagt~~ttcaag~~~~~tttc~aaa~tattttcc
Dyak 1047 ~~~~~aaaccttttacaaaaacttaa~~~~~aaac~aaaataattttcc
Dere 901 ~~~~~aaaccttttacaaaaacttaa~~~~~aaac~aaaatacttcac
Dpse 961 ccagtaaaaggaaaagcaaaaactttctgagata~~~~~aacaaaactaaag
Dper 1006 ccagtaaaaggaaaagcaaaaactttctgtgatataatgtctataaaaactaaag
Dana 725 ~~~~~
Dvir 889 ~~~~~
Dmoj 735 ~~~~~
Dgri 835 gtttaaaattatataatggtgcccgcacagctgaagattttccttagagtgagacaagc

Dmel 1089 ~aac~~~~~a~~~~~aacagtc~~~aa

Dsim 1098 ~aac~~~~~a~~~~~aacgctc~~~aa
Dyak 1084 ~taacctttataactaaaaagatgaaacattggaaattatttaaaatgtgaa~gttttta
Dere 939 gtaaccgctataactaaaatgatgaaacattcgaaatttt~~~~~gaa~gttttta
Dpse 1008 ttttactgatgggtgtcttaaacacggaactgttattgagaaagtctggaccatattctg
Dper 1066 ttttactgatgctgtcttaaacacggaactgttattgagaaagtctggaccatattctg
Dana 725 ~~~~~~
Dvir 889 ~~~~~~
Dmoj 735 ~~~~~~
Dgri 895 tcatgtgaaatgaaatggcttagtttgggcttagatattcttgttattttgtgaactgtg

Dmel 1103 tatttcttttag~aggattagttaaatcatcacatttcagata~catacatttatttattt
Dsim 1112 tatttctttat~aagatta~~~~~agata~catacatttatttattt
Dyak 1143 tattt~tttatcaa~a~c~~~~~a~~~~~ttct~~~at~~attttttata~
Dere 989 tattt~ttca~~acgaac~~~~~attcagcat~~acttctttataa
Dpse 1068 aagaagcgaagccctctaaccacaaacttgttccaattggcgtgaattttcttc~~~~~
Dper 1126 aagaagcgaaacctctaaccacaaacttgttccaattggcgtgaattttcttcacaaa
Dana 725 ~~~~~~t~t~~~~~c~a~~~~~ttatt~~~att~~~~~tg~att~~~~~ttc~~~~~
Dvir 889 ~~~~~~
Dmoj 735 ~~~~~~ccgaaaactcaacattattcgagaatatttcaaatattgtttcaaaacaa
Dgri 955 atttgtgtcttgagttcaataa~~~~~

Dmel 1160 ~ttgtatataatgtatata~atata~~~t~~tttg~~~gtcagctcatttaattta~~~~~ca
Dsim 1151 ~atg~~~~~tacat~atata~~~a~~tttg~~~gtcagctcatttaattta~~~~~ca
Dyak 1175 ~agaaaaa~~t~taaatcat~~~~cacatt~~~~~ccagctcattttatttaattttca
Dere 1025 gat~tagt~~~~~tgaatcacattccagctttgtatgt~~~ctcgtttaatttaattttta
Dpse 1122 ~~~~~~atcatttcaatgatgaatcacttaagataatggattcaaaag
Dper 1186 tgaataaagatgaacatagcatttcaatgatgaatcacataagataatggattcaaaag
Dana 746 ~~~~~~attaatttaaat~taaat~ac~~~agataatgaaat~aagag
Dvir 889 ~~~~~~
Dmoj 786 ttttaaggctgtataagaaataatccattaacgttcatctaaagatagtttttaaaaatt
Dgri 977 ~~~~~~

Dmel 1206 gttctttcacctgtttggtatc~~~~~
Dsim 1189 gttctttcacctgtttggtatc~~~~~
Dyak 1222 gttcatacaccttttgggtatc~~~~~
Dere 1077 gttctttcgccttttgggttc~~~~~
Dpse 1165 aactcctaaaaat~a~tata~~~t~atagga~cattactatagccctacctcctggcttcg
Dper 1246 aactcctaaaaat~a~tata~~~t~atagga~cattactatagccctacctcctggcttcg
Dana 781 ~atttctaaaaatgacttttaattatagcctcatt~gtata~~~~~t~~~t~ct~~~tt~g
Dvir 889 ~~~~~~
Dmoj 846 cgtaataaataatgtaataattcattaaaaataattctaaaaaaataataattcttt
Dgri 977 ~~~~~~

Dmel 1226 ~~~~~~
Dsim 1209 ~~~~~~
Dyak 1242 ~~~~~~
Dere 1097 ~~~~~~
Dpse 1219 t~~~ttctgtgccataaaaaagagacactt~t~aacttcttgccaactcatt~tt~tttt~a
Dper 1300 c~~~ttctgtgccataaaaaaagacactt~t~aacttcttgccaactcatt~tt~tttt~a
Dana 828 taatt~t~t~~~at~~gca~agtc~ctcatcaaagtcatgacagctcagctcttattttga
Dvir 889 ~~~~~~
Dmoj 906 cagcggaaattcgagaatagttaagacataactaagtagatcaagaataacttaataaaaact
Dgri 977 ~~~~~~

Dmel 1226 ~~~~~~ctgtttgtctgcaaactgttttaccg~~~t
Dsim 1209 ~~~~~~ctgtttgtctgtaaactgttttaccg~~~t
Dyak 1242 ~~~~~~ctgtttgactgttaactgttctactg~~~t
Dere 1097 ~~~~~~ctctttgtctgtaaactgttttaaaaaat
Dpse 1272 agttccttcaacttgt~~~tttgtt~ttt~tctgtttatctgttaagcattttaccg~~~t
Dper 1353 agttccttcaacttgt~~~tttgtt~ttt~tctgtttgtctgttaagcattttaccg~~~t
Dana 879 agttccttccactt~taatttgttgtttgtct~tttgtctgtaaaccgctttaccg~~~t
Dvir 889 ~~~~~~
Dmoj 966 tcctagttcttattagacattcaataaattgtttctgcctagttgaacaatcgttccag

Dgri 977 ~~~~~
Dmel 1253 ~~tgcattcttgcaaatataaaaaa~ct~t~~~~~tttcgacttg~~~~aagtg
Dsim 1236 ~~tgcattcttgcaaatataaaaaaact~t~~~~~tttcgactcg~~~~gagtg
Dyak 1270 aatacactcttg~aatat~~~a~~~~~
Dere 1127 ~ttcagt~tt~~~aa~at~~cact~ctgat~~~~~ttttg~t~~~~~a~tg
Dpse 1324 ~tatatccgtgcaaatatacaaaagaaaccacacaacctttcgacttg~~~~aagtg
Dper 1405 ~tatatccgtgcaaatatacaaaagaaacagcacaacctttcgacttg~~~~aagtg
Dana 933 ~tatatccgcgcaata~~~tacaaa~~~~~ac~ca~~~~~t~tttgtcttaaaaatg
Dvir 889 ~~~~~
Dmoj 1026 actggttcaaattcaaattcagttcaagtgcagctgccttacgttgaatgtgccttgagc
Dgri 977 ~~~~~

AP1

Dmel 1295 aatcactc~ggattttcggttaaattat~~~~~tttctaccaactttaccgtaaccaa
Dsim 1279 aatcactctgattttggtgaattcat~~~~~tttctaccaactttgacttaaatcaat
Dyak 1288 ~~~~~gat
Dere 1157 ~~~~~taaattttgc~cgt~tttctgctctacccg~acctaataat
Dpse 1380 ca~gcaa~aatgatatgtgactcaccaaaacattttttgggtac~~~~~aa
Dper 1461 ca~gcaa~aatgatatgtgactcaccaaaacattttttgggtac~~~~~aa
Dana 976 ca~acaa~~~~~agctccg~~~tc~~~~~acacagtttttg~~~~~aa
Dvir 889 ~~~~~
Dmoj 1086 tttatctgccaattctactcagtgctcgcagcacacctcaacat~~~~~cc
Dgri 977 ~~~~~accttaaga~~~~~gt

Dmel 1347 caaaaggcgttcagttgcagaaaacttgactattttttcaataatgatgctcaagattga
Dsim 1332 taaaagtcattcaattgcagaaaacttgac~~tgttttcaataatgatgataagagtga
Dyak 1292 t~~aa~~~~~a~~~~~tt~~~~~caggta~~~~~
Dere 1197 taaaaggcattcaattgcagacaacttaaa~~tgttttcaataatgatgtagaagggtga
Dpse 1424 tacaagaga~gtttttc~~~~~gttttcagccaattaaaaggcatt
Dper 1505 tacaagaga~gtttttc~~agttt~acaaatttttcgttttcagccaattaaaaggcatt
Dana 1006 tataattggcgttttggtcctggttgac~ga~~~~~ctaaaccaattaaatggcatt
Dvir 889 ~~~~~T
Dmoj 1132 actcaagcgtgtcaattcaaaattcttaagcttgatttttttctttttgtatattcatt
Dgri 990 tccttaag~~~~~

Dmel 1407 atcgtggtattttgatt~~~~~
Dsim 1390 atc~~~~~
Dyak 1303 ~~~~~catattttgatt~~~~~
Dere 1255 atcaaggatattttgatt~~~~~
Dpse 1464 aaaatgcaagaatta~~~~~caatg~~ctattgagggattcatgtggca~ct~cg
Dper 1561 aaaatgcaagaatta~~~~~caatg~~ctattgagggattcatgtggca~ct~cg
Dana 1056 aaattgcaaaaaatgatgattgtctacattgggct~ttga~~aattcaaaaagcatctgca
Dvir 891 TCGCCAACTCATTGAGTCAAGTTCAGTCACTTATTATCTGCCATCATAATACTGTTATG
Dmoj 1192 ttgccaactcattgagtcagttccagctcgtattatttaccacgattaccgttatg
Dgri 998 ~~~~~ctcattaagtcagtttggttgccatc~~~~~gttata

Dmel 1423 ~~~~~gtgggaa~~~~~
Dsim 1392 ~~~~~gtgggaa~~~~~
Dyak 1315 ~~~~~atgtgga~~~~~
Dere 1271 ~~~~~atgtgaa~~~~~
Dpse 1510 gat~ggt~g~tgcactataaaactgatttgaagtgattttaacaagtgtgaa~~~~~
Dper 1607 gat~ggt~g~tgcactataaaactgattcgaagtgattttaacaagtgtgaa~~~~~
Dana 1113 gatcagtcagatgaat~t~taatttaaatcgaa~tcattttgatta~tatgaa~~~~~
Dvir 951 CAGATACACATAAATAAATTCAGACCTCAACCAACT~~~~~
Dmoj 1252 cacatgc~~~~~ataaattcaagacccagccaacaacgt~~~~~gtgagt
Dgri 1033 cacattcacataaataaatacaagacctccatttgagt~~~~~ctgagt

Dmel 1430 ~~~~~
Dsim 1399 ~~~~~
Dyak 1322 ~~~~~
Dere 1278 ~~~~~

Dpse 1558 ~~~~~
Dper 1655 ~~~~~
Dana 1162 ~~~~~
Dvir 987 ~~~~~
Dmoj 1293 cacgaagat t t t t g t a c g a ~ ~ ~ ~ ~ t t c a t a a a c t t t g c t c a t a a c t t t g a c a g c
Dgri 1077 c a c a a g t t t t c g g c g g t t c t c t t t g c a t t c t t c a t a t a ~ ~ ~ t g c t c a t t t c c t t a c a c c e

Dmel 1430 ~~~~~
Dsim 1399 ~~~~~
Dyak 1322 ~~~~~
Dere 1278 ~~~~~
Dpse 1558 ~~~~~
Dper 1655 ~~~~~
Dana 1162 ~~~~~
Dvir 987 ~~~~~
Dmoj 1341 a t t t t a g t g c a a t ~ ~ ~ ~ ~
Dgri 1134 t t g c a a t g g g t a t t a t a a a t t t c c t g g t g a g g t t t g t t a t t t a t t g a a g g c a a c g t t t c t g

Dmel 1430 ~~~~~
Dsim 1399 ~~~~~
Dyak 1322 ~~~~~
Dere 1278 ~~~~~
Dpse 1558 ~~~~~
Dper 1655 ~~~~~
Dana 1162 ~~~~~
Dvir 987 ~~~~~
Dmoj 1353 ~~~~~
Dgri 1194 g g a a c a t c t t t t g t t a c t t t g t t a c t t a a c a c t c a a t g c t c a t a a a a t t t g g a g a c g t a c

Dmel 1430 ~~~~~
Dsim 1399 ~~~~~
Dyak 1322 ~~~~~
Dere 1278 ~~~~~
Dpse 1558 ~~~~~
Dper 1655 ~~~~~
Dana 1162 ~~~~~
Dvir 987 ~~~~~
Dmoj 1353 ~~~~~
Dgri 1254 a a a a t c a c t c a g a c t a c t c a a t g a t a t a g c t t t c a t a a g a a c a t a a g t a g a a a g t c a g a t

Dmel 1430 ~~~~~
Dsim 1399 ~~~~~
Dyak 1322 ~~~~~
Dere 1278 ~~~~~
Dpse 1558 ~~~~~
Dper 1655 ~~~~~
Dana 1162 ~~~~~
Dvir 987 ~~~~~
Dmoj 1353 ~~~~~
Dgri 1314 t t t g g c a g a t t g c c t c t a c t c t g c a a a g g t t t t t a a t c t t c g g g a t g c c a a a g t g t t g t t

Dmel 1430 ~~~~~
Dsim 1399 ~~~~~
Dyak 1322 ~~~~~
Dere 1278 ~~~~~
Dpse 1558 ~~~~~
Dper 1655 ~~~~~
Dana 1162 ~~~~~
Dvir 987 ~~~~~
Dmoj 1353 ~~~~~
Dgri 1374 a t t t t t t g a t a a t t a g t a t g t c t c a a t t a a a c t g a c g g a a a t c a a t a g g a a t t c t t g g t t

Dmel 1430 ~~~~~

Dsim 1399 ~~~~~
Dyak 1322 ~~~~~
Dere 1278 ~~~~~
Dpse 1558 ~~~~~
Dper 1655 ~~~~~
Dana 1162 ~~~~~
Dvir 987 ~~~~~
Dmoj 1353 ~~~~~
Dgri 1434 aacatcaatgattctacgaaacttcgatacatatgtatatatgcatatatacattgttca

Dmel 1430 ~~~~~
Dsim 1399 ~~~~~
Dyak 1322 ~~~~~
Dere 1278 ~~~~~
Dpse 1558 ~~~~~
Dper 1655 ~~~~~
Dana 1162 ~~~~~
Dvir 987 ~~~~~
Dmoj 1354 aatctgaaacatcattaaggattttcggctctatacaatagagttatattaaggatatt
Dgri 1494 ta~~~~~

AP1

Dmel 1430 ~~~~~atgagtcacaaaagagctt~aatatttggattttacgtaatgagtg
Dsim 1399 ~~~~~atgagtcacagaagagctt~aatatttggattttacgtaatgagtg
Dyak 1322 ~~~~~atgagtcacagtagtgctt~aatatttggattttacgtaatgactg
Dere 1278 ~~~~~atgagtcacagtagaggtt~aatatttggattttacgtaacgagtg
Dpse 1558 ~~~~~atgagtcacagtagagctt~aatgtttggtttttacggtatgcgta
Dper 1655 ~~~~~atgagtcacagtagagctt~aatgtttggtttttacggtatgcgta
Dana 1162 ~~~~~gtgagtcactg~aaaactttaatgtttggtttttacg~ta~aagta
Dvir 987 ~~~~~CTGACTCACAAAATTTGAACGGCTCGTACGCCTTCCACTGAATTCC
Dmoj 1414 tagtctgttgcgctatgagtcacaagagtttgcacaaaact~
Dgri 1495 ~~~~~atgagtcacgaa~gtttgctcataac~

Dmel 1476 agttgaa~
Dsim 1445 agttgaa~
Dyak 1368 atttgaa~
Dere 1324 agataaa~
Dpse 1604 agtcg~a~
Dper 1701 agtcg~a~
Dana 1206 agccgga~
Dvir 1034 ATCCGTAATGCACTTTTGGCCATAACTAAGGACTCTCCATACAATATGCATATGT
Dmoj 1454 ~~~~~
Dgri 1520 ~~~~~

Dmel 1482 ~~~~~tccggaactggc
Dsim 1451 ~~~~~tccggaactggc
Dyak 1374 ~~~~~tccggaactggc
Dere 1330 ~~~~~gggactgac
Dpse 1609 ~~~~~atatcatcttt
Dper 1706 ~~~~~atatcatcttt
Dana 1212 ~~~~~at~t~gtcttt
Dvir 1094 ACTTTAATTATGCACCATGATTACAAAAGTTTACTCATAACCAAAAAAG~
Dmoj 1454 ~~~~~
Dgri 1520 ~~~~~ccagatag~

Dmel 1494 acttcatttttgggtttttcttttttttttttttgggtttcccttcagacctgcgaatgatt
Dsim 1463 acttcatttttgggtttttc~ttttctttcgggtttctctgcagacctgcgaatgatt
Dyak 1386 ctttaatttttggggtt~ttttggTTTCTTTTCAGACCGGTGAATGATT
Dere 1340 acttcatttttggg~ttt~ttttgggtttcttttcagacctgagaatgatt
Dpse 1620 ~c~gtgctcttgtgcactcgtgg~t~ctgagaatgatt
Dper 1717 ~c~gtgctcttgtgcattcgtgg~t~ctgagaatgatt
Dana 1222 tcagt~ttctt~t~ttttcggggat~ctgagaatgatt
Dvir 1142 ~~~~~

Dmoj 1454 ~~~~~
Dgri 1528 ~~~~~

Dmel 1554 tgtct~tt~tgttc~~~~~gggctttaatttgagcg~accattgat~~~
Dsim 1519 tgtct~tt~tgttc~~~~~gggctttaatttgagcg~accattgat~~~
Dyak 1434 TGTCT~TT~TGTTT~~~~~GGGCTTTAATTTGAGCG~CCCATTGAT~~~
Dere 1388 tgtct~tt~tgttc~~~~~gggctttaatttgagc~accaattgct~~~
Dpse 1655 tgtct~ct~tgtttgattggggg~actgggggctttcatt~~~~~
Dper 1752 tgtct~ct~tgtttgattggggg~actgggggctttcatt~~~~~
Dana 1256 ggtcttctgtgagtagatt~cgg~~~ttgggggtttcgtt~~~~~
Dvir 1142 ~~~~~TGGTTTTTACGCTATGCGTAACTTAATTTTTTATCTG
Dmoj 1454 ~~~~~tggtttttacgcagtgcgtaacttaattcgaaactg
Dgri 1528 ~~~~~tgattttttacacaatgcgtaactgaattcaaagctg

Dmel 1591 ~~~~gggtttattttggg~ttttggaagacttattcatt~~~~catc~~~~~ga~~tga
Dsim 1556 ~~~~gggtttattttggggttttggaagacttatccatt~~~~cacc~~~~~ga~~tga
Dyak 1471 ~~~~GGGTTTATTTTT~GGTTTTGGAAGAATTATCCATT~~~~GACC~~~~~GA~~TGA
Dere 1425 ~~~~gggtttatttt~gggttttgggaagacttagccatt~~~~cacc~~~~~ga~~tga
Dpse 1692 ~~~~gatgactaaa~~~~~ttgaaggacttattcatg~~~~aatccc~~~ctga~~tga
Dper 1790 ~~~~gatgactaaa~~~~~ttgaaggacttattcatg~~~~aatccc~~~ctga~~tga
Dana 1291 ~~~~gatgactgta~~~~~ttttgga~~~~~tattgaaggaccaatccaagctcagctgga
Dvir 1179 GTGTTAAGCTTTGGGCTTCACCCATTACCAATTAACATTAAGAGATAAATTTATATTTG
Dmoj 1491 gtattaaattatgggatttttttttttttttttttttactcattgaaatgaggtgaattcggc
Dgri 1565 tcatttaatttgggtttttttttgtatacaaatattattcatctctgttttctgcatgtttc

Dmel 1635 gtt~gtcatgttt~aatgacacac~ttat~ttt~~~ggtcataa~g~~~~~
Dsim 1601 gtt~gtcatgttt~aatgacacac~tttt~ttt~~~ggtctt~agg~~~~~
Dyak 1515 GTT~gtcatgttc~aatgacacac~tttt~ttt~~~ggg~~~c~~~~~
Dere 1469 gtt~gtcatgttt~aatgacacacatttttcttttttgg~cttca~g~~~~~
Dpse 1734 gtt~gtcaaaatg~aattatttaacatagtta~~~~~~tcatagtg~~~~~
Dper 1832 gtt~gtcaaaatt~aattatttaacatagtta~~~~~~tcatagtg~~~~~
Dana 1338 gtt~gaaattttt~aatgatataatagttaatgaatcagatagc~~~~~
Dvir 1239 ATTATTGGATAGCTCCTTTGCATATGAACGGTTTTTCGCCTTTTCAACTTTACGTAAAAAA
Dmoj 1551 tcataatgaagctgaacttaagttaaagtggaagaaggtttgctcaggctgtgggaacca
Dgri 1625 tcgcttaaataagcttgtcttttaaatgagggcttggttttttttaagttattgaaggac

Dmel 1672 ~~~~~cactttgaaactt~~~~~gga
Dsim 1638 ~~~~~cttgagaacttt~~~~~
Dyak 1547 ~~~~~acattttatgcatt
Dere 1510 ~~~~~cttgg~gacattgtgtggttt
Dpse 1771 ~~~~~a~~~~~aat~atgatttagc
Dper 1869 ~~~~~a~~~~~aat~atgatttagc
Dana 1381 ~~~~~aggagaaatcaagttttaaa
Dvir 1299 AATCAAAAACAGTTATCAGTCCAAATCTGTCCGATTTGAGC~~~~~
Dmoj 1611 taaaagagcctaataatgaaatgctcagataaaagtctaacat~~~~~
Dgri 1685 aagctaataaaaaatagacttatgaagttgaataaataaata~~~~~

Dmel 1689 atttaaaggcatttaagg~~~~~catgttaagaaaa~~~~~gttatagccc~gctcaat
Dsim 1652 gtgacttcgaatttaaagtaagataagttcaagaaaa~~~~~gttatagccc~gctcaat
Dyak 1562 g~gattttaaatct~~~~g~~~~~aagttggatat~gtacaag~t~aat
Dere 1531 g~gattttgaatctgaagtaagatatgtaaaacaaaa~~~~~gttatatcct~gctcaat
Dpse 1786 cttgaa~attggtaaaaggtgttccccacca~at~ca~aca~t~caa~~~~~tta
Dper 1884 cttgaa~attggtaaaaggtgttccccacca~at~ca~aca~t~caa~~~~~tta
Dana 1403 aatgcatatt~ttaaacctctttctata~gagattttcagga~agtttcatcgatttta
Dvir 1339 ~~~~~
Dmoj 1651 ~~~~~
Dgri 1725 ~~~~~

GRH

GRH

Dmel 1738 gc~aaaaacgttctttc~aaagatttaagactagtttttaaaaaacgttcgatcaaac
Dsim 1706 gc~aaaaacgttctttc~aaagatttacgacaag~tttaaaaaaaattccaataaac
Dyak 1598 gccaaaaaagat~tttt~aaatatttttagacttg~tttta~~~~~aatttgaataaac

Dere 1584 gc~aaaa~agtacttttttaaatattttagactag~ttttataaacaatttgaatctacc
Dpse 1833 t~gt~~ttcgttttaacgatgt~ttga~g~~~~t~g~~tattt~tt~gaa~gc~t
Dper 1931 t~gt~~ttcgttttaacgatgt~ttga~g~~~~t~g~~tattt~tt~gaa~gc~t
Dana 1460 ttgtattttttttttaagtatttattaatgataaatagcttggttccttagcattgactt
Dvir 1339 ~~~~~~
Dmoj 1651 ~~~~~~
Dgri 1725 ~~~~~~

Dmel 1796 gctttggcattgacttttgaagttg~ttg~~gtctggc~gtac~ctctgcaattgaat~
Dsim 1762 gcttttagcattgacttttgaagttg~ttg~~agctggc~ttac~ctctcaattgaat~
Dyak 1649 acgtttagcattgaatttgaatttattcttaaaactggcgattaaactcttcgatt~aata
Dere 1640 ccttttagcattgactttgaca~tt~~ctcttc~gtttacta
Dpse 1872 taaagtg~a~gaga~aaat~~aaa~cgtttg~ctggtggt~ttg~
Dper 1970 taaagtg~a~gaga~aaat~~aaa~cgtttg~ctgatgct~ttt~
Dana 1520 taaatttcaactga~atgtttactttaattttttaatgc~ttgaaacaacagttacttgc
Dvir 1339 ~~~~~~
Dmoj 1651 ~~~~~~
Dgri 1725 ~~~~~~

Dmel 1848 actccaacaacagttacctgctacat~~~~~caaatacaacattgactatttgct
Dsim 1814 actccaacaacagttacctgctacattgagagaaaaaataaacattgactatttgca
Dyak 1708 actccaacaacagttacctgctata~tg~gag~aaacaaattaacattgactatttgca
Dere 1677 actccaacaacagttacctgctatatggatagaaaaaataaacattgacaatttgca
Dpse 1907 ~~~gttgg~gc~~~~~tg~~~~tgggg~~~aaga
Dper 2005 ~~~gttgg~gc~~~~~tg~~~~tgggg~~~aaga
Dana 1578 catggtgacagaaaacct~~~~~ataaacattgagccacaa~a
Dvir 1339 ~~~~~~AATAAACATTGAATATTTGCG
Dmoj 1651 ~~~~~~
Dgri 1725 ~~~~~~aaagcttaataattttgtctt

Dmel 1898 aagccttttgtttggcaacgcgcccagtggaagaatgtgagcgaatccaatgaccaagc
Dsim 1874 gagccttttgtttggcagcgcgcccactggaagaatgtgagcgaatccaatgagcaagc
Dyak 1765 gaggcctt~att~cggcgcgccaat~caaaaatgtgagcgaatccaatgagcaaga
Dere 1737 gaggccttttatttggcagcgcctccactcgaaaaatgtgagcgaatccaatgagcaagt
Dpse 1926 a~~~~~ga~~~~g~taaacagc~agatgaagaagcg~agagatac~a~ac
Dper 2024 a~~~~~ga~~~~g~taaacagc~agatgaagaagcg~agagatac~a~ac
Dana 1615 a~~~~~gatttgtgagtaaa~atttaaatg~agagggcgca~aaatacgagaa
Dvir 1361 GAGACATTTTAGCTGAGCGCAAGAGAGACG~~~~~TTGTCTAAAATT~~~~~TAAAT
Dmoj 1651 ~~~~~~
Dgri 1747 gattgtaagtagtgttaatatgtctataaattatgggatgctatttttttatttactttt

Dmel 1958 tg~cggggagaaaaatcga~gagaagagacc~~~~~
Dsim 1934 ta~cggggagaagaatcga~gagaagagacc~~~~~
Dyak 1820 ag~tggggagaagaatcga~gagaagagacc~~~~~
Dere 1797 ag~cggggagaagaatcat~gagaagagacc~~~~~
Dpse 1961 ~aaagag~aga~cc~gagc~agacc~~~~~
Dper 2059 ~aaagag~aga~cc~gagc~agacc~~~~~
Dana 1659 gaaacagctagaaaggcgaagagccagacc~~~~~
Dvir 1408 AAGAAAGACAAACAGT~A~GAGAAGAGAGC~~~~~
Dmoj 1651 ~~~~~~
Dgri 1807 aaataccaagtttttatgctttcgaactgtggttacttgaaaaaacagttacttgtgctat

Dmel 1985 ~~~~~~
Dsim 1961 ~~~~~~
Dyak 1847 ~~~~~~
Dere 1824 ~~~~~~
Dpse 1981 ~~~~~~
Dper 2079 ~~~~~~
Dana 1688 ~~~~~~
Dvir 1435 ~~~~~~
Dmoj 1651 ~~~~~~ataagatataaaa
Dgri 1867 attgacaaaaaaaaaatcgtcataaaaaaggcgtacgaataaggcaaaaaataaacattaaa

Dmel 1985 ~~~~~
Dsim 1961 ~~~~~
Dyak 1847 ~~~~~
Dere 1824 ~~~~~
Dpse 1981 ~~~~~
Dper 2079 ~~~~~
Dana 1688 ~~~~~
Dvir 1435 ~~~~~
Dmoj 1665 ccattttatatatgtaacaatttagtttaattcagaatgttcacatacaaaaatctttcta
Dgri 1927 tatttgccaagacactttggcagctgctgagcgcgagacattgccccaaaatataaatgagtt

Dmel 1985 ~~~~~tcgagactggagccttgaagac
Dsim 1961 ~~~~~tcgagactggagccttgaagac
Dyak 1847 ~~~~~tc~~~~~gacttttgaggac
Dere 1824 ~~~~~tc~~~~~gagccttgaagac
Dpse 1981 ~~~~~tcgagactgtgagattccgg~t
Dper 2079 ~~~~~tcgagactgtgagattgagg~t
Dana 1688 ~~~~~tcgagacagagaggtt~tggct
Dvir 1435 ~~~~~
Dmoj 1725 tgtttttctatacattttcttaagcttccataaaaagatttttagtaaacaaaactttgtctat
Dgri 1987 aaac~~~~~

Dmel 2008 agaatctcaaagcctgagtg~atctcgc~~~~~tgg~~~~~
Dsim 1984 agaatctcgaagactgagcgc~atctcgc~~~~~tgg~~~~~
Dyak 1863 agaatcttgagactgagcgcgcacatctcgc~~~~~tgg~~~~~
Dere 1840 agaatcttaaaagacggagcgc~atctcgc~~~~~tgg~~~~~
Dpse 2002 ~~~~~ggaggtggaggt~~~~~ggagggcgtgtcaacaaa~tgtgattgg~~~~~
Dper 2100 ~~~~~ggaggtggaggt~~~~~ggagggcgtgtcaacaaa~tgtgattgg~~~~~
Dana 1710 aaacaactcgg~ct~gaggtctaaagtgagggcgtttgagcaaaaatccgattgg~~~~~
Dvir 1435 ~~~~~CAAAAAAATATATG~GAGAGC
Dmoj 1785 ttatgcaaagattttgacagtcgctgcgagaagagtaagtaaatatagaaaagagagc
Dgri 1990 ~~~~~aaacaagagagaagagatt

Dmel 2038 ~~~~~
Dsim 2014 ~~~~~
Dyak 1895 ~~~~~
Dere 1870 ~~~~~
Dpse 2040 ~~~~~
Dper 2138 ~~~~~
Dana 1760 ~~~~~
Dvir 1457 GAGAGAGAGAGAGAGAGAGAGGCGACTCACTGCTTGTATATCTCCACAAAGAAAAAACAT
Dmoj 1845 gaaaaagagagagagaaagagagcaatcgtatttaccagcaacaagctactcagacaac
Dgri 2010 gagaacatagacacagagagtcggagaggcttgtaaatcacatataaataagcattaa

Dmel 2038 ~~~~~
Dsim 2014 ~~~~~
Dyak 1895 ~~~~~
Dere 1870 ~~~~~
Dpse 2040 ~~~~~
Dper 2138 ~~~~~
Dana 1760 ~~~~~
Dvir 1517 CGTCTTGGTTT~~~~~CTTGGCTTGCATGTAGGCGGTTTCGGCCT
Dmoj 1905 tctgtatctctatgg~~~~~cttggcttgcgctgtggcgttgaggcct
Dgri 2070 agccaactcttcgacagtgctctcttgaatttggtgtatt~~~~~ggcgttgaggcat

Dmel 2038 ~~~~~aaa~tgccaagcggatgagtagacg
Dsim 2014 ~~~~~aaa~tgccaagcggatgagtagacg
Dyak 1895 ~~~~~aaa~tgccaagcggatgagtagacg
Dere 1870 ~~~~~aaa~tgccaagcggatgagtagacg
Dpse 2040 ~~~~~aaa~tgccaacagatgatttgga
Dper 2138 ~~~~~aaa~tgccaacagatgatttgga
Dana 1760 ~~~~~aaa~tgccaagcggatga~gtg~
Dvir 1556 TTAAAATTATGCGAAAATTGACTGGCACAGATTAATAA~TGCCAATTAGATGAACGCCCT

Dmoj 1948 ttcgaattgtgcaaatatTTTTgagtgaggcaaacatgaaa~gagtcattgggaaaaagtgtg
Dgri 2122 ttaagattgtgtaaaactcaagtggcatggattagaaaatgccaattagatgaaactttt

Dmel 2063 tactcg~~~~~gctgagccaggtgaaaaccctcgctaggtgacctttccgc
Dsim 2039 tactcg~~~~~gtggagccaggtgaaaaccctcgccaggtgacctttctcgc
Dyak 1920 tactcgt~~~aggtaatgagctgagccaggtgaaaaccgctcgtcaggtgacctttccgc
Dere 1895 tacttgg~~~cagtaagagcttagccaggtgaaaaccgctcgcaggtgacctttccgc
Dpse 2065 gctat~atagcagta~~catatctacatatgtatgatctaga~gaagatcttggg~a~t
Dper 2163 gctat~atagcagta~~catatctacatatgtatgatctaga~gaagatcttggg~a~t
Dana 1781 g~~atgat~~gagccgcca~at~tgg~a~g~atgatccaggtgaaaaccacggcaggt
Dvir 1615 GGATACTTTTAGTAAG~~~~~GATTTGATTTAGTGAATTTTAACCGTTGATGCCAGCA
Dmoj 2007 attaaatgtcatttattccaaatgatttcatttggctcatttcacttaataacaggctta
Dgri 2182 ctctactgacattttgggcaatccacccatcgatattaggtgacggcatagttaacag

Dmel 2110 aggtaattc~~~~~cc~tgtgaaagcctc~~~~caaaaacc~attgcgagcc
Dsim 2086 gggtaattc~~~~~cc~tgtgaaagcctc~~~~caaaaaccactgcgagcc
Dyak 1977 tggtaattc~~~~~ca~tgtgaaagcctt~~~~cgaaaaca~actgagctgca
Dere 1952 tcgtaattc~~~~~cc~tgtgaaagcctc~~~~caaacacc~actgtgtgca
Dpse 2118 c~~~~~tt~cc~tgagaaagaagccagcaaaaaccccacaaagtgtt
Dper 2216 gaaaataagcgt~~~~~atttcc~tgagaaagaagcttagcaaaaaccccacaaagtgtt
Dana 1832 gacatttcgctttggcgatt~caatgtgaaagatcc~~tcaaaaaa~~~~~tg~t
Dvir 1668 ACAGCTACTCCATCTATATAGTTAAATGTTTT~~~~~
Dmoj 2067 gccatagcatcga~~~~~
Dgri 2242 ctctctgttaaat~~~~~

Dmel 2152 cagaaatcttggcactgactctcctctgctga~~~~~
Dsim 2129 cagaaatcttggcactgactctcctctgctga~~~~~
Dyak 2019 aagaaatcttaacgctgattctcctctgctga~~~~~
Dere 1994 aagaaatagggcgctggttctcttttggctga~~~~~
Dpse 2159 agc~cag~t~~~~~ctctgctaaatgccaagaaaatggtttgacttgagat
Dper 2270 agc~cag~t~~~~~ctctgctaaatgccaagaaaatggtttgacttgagat
Dana 1879 acctcatgat~~~~~ctccgtaaatgccaagagaatgctgccacttggtc
Dvir 1699 ~~~~~TTAGTAATGCTCTGCTAATTAAGG~~~~~
Dmoj 2079 ~accatag~~~~~ttaacaagtctttgtaattaaga~~~~~
Dgri 2254 ~gccaagaa~~~~~aatggcttgctaattaagg~~~~~

GRH

Dmel 2183 ~~~~~ctaatttaatc~~~ataatztatagaacaagttgctgaatttt~gggtgt
Dsim 2160 ~~~~~ctaatttaatc~~~ataatztatagaacaagttgctgagattt~gggtgt
Dyak 2050 ~~~~~ctaatttaatc~~~ataatztatagaacaagttgctg~gattttgggtgt
Dere 2025 ~~~~~ctaatttaatc~~~taagttatagaacaagttgc~gagattttgggtgt
Dpse 2203 gccttg~~~~~ctaatttaattttataatztatagaacaagttgctcggttttt~gg~gt
Dper 2314 gccttg~~~~~ctaatttaattttataatztatagaacaagttgctcggttttt~gg~gt
Dana 1926 gccttggttagctaatttaattttataatztatagaacaagttgcttggtttttgggtgt
Dvir 1723 ~~~~~TTTATAATTTATAGAACAACCTTGTTTTAAAGGTGTGTTT
Dmoj 2110 ~~~~~ctttcaatztatagaacaacttgttttaaggcgtctgt
Dgri 2281 ~~~~~tttatgatttatagaacaacttgttttaagggtgtgctt

Dmel 2230 gtt
Dsim 2207 gtt
Dyak 2097 gtg
Dere 2071 gtt
Dpse 2256 gtg
Dper 2367 gtg
Dana 1986 gtg
Dvir 1763 GTG
Dmoj 2150 gtg
Dgri 2321 gtg

msn-WE2

Dmel 1 CCACTGC~~~~~CAACAGCAAGAA~~~~~ATCAGTGCCTTGCCATAAGACCGT

Dere	234	tatcaataaaaacggaagtgccttaacaaaacgaacatgaaagcgaaagcaaaa~~~~~
Dyak	251	tatcaataaagcggaagtgccttaacaaaacaaacacgaaagcgaaaatcaaatgaaa
Dana	187	tatcaataaaaacggaagtgccttaacaaaacaaacatgaaagacgcgccaggcagc~~~
Dper	287	TATCAATAAAAACGGAAGTGGAGAGAAGCAGAGGAGCACAGAGAGAGAGAGAGAGAGAGA
Dpse	278	tatcaataaaaacggaagtggagagaagcagaggagcagagagagaga~~~~~
Dvir	197	aaagcacagaacatacgagaaattagctgatatt~~gct~~~aataaagagagacatcac
Dmoj	289	aaagcgcagaacatacgagaaattagttgataaatcgcatggaataaaaaaaaaatacac
Dgri	250	aaagcacaacacatgagagaaattagttgataaatcacatgaaaagagacagatgaaggg
Dmel	292	CGGGCGAGACAGATAGT~CATAAATCAATGGAGCTTT~GCG~AAAAGATTTCGAGAAAACG
Dsim	292	CGGGGGAGACAGATAGT~CATAAATCAATGGAGCTTG~GCG~AAAAGATTCCCAGAAAACG
Dsec	299	cgggggagacagatagt~cataaatcaatggagcttt~gcg~aaaagattcccagaaaacg
Dere	288	cggg~cagacagatagt~cataaatcaatggagcttt~gcg~taaagattcccagaaaacg
Dyak	311	cgggggagacagatagt~cataaatcaatggagcttt~gca~aaaagattcccagaaaacg
Dana	243	~~~~~cataaatcagaatatt~~~~~attcgcagaaaacg
Dper	347	AGGAAGGGATAGACAAAACATAAATTAAGTAAATAAAGCGCAAAGATTTCGGGAAAAA
Dpse	324	aggaagggatagacaaaacataaattaaactaaataaagcgcaaaagattcgcggaaaaa
Dvir	252	tg~taa~agaga~~~~~atgggtgtgagag~~~gtgggcggg~~~~~gcgggggggag
Dmoj	349	tgctaatatagacacataaagagtgagagcagtggtgggatgagtgatcagggggagggg
Dgri	310	a~~~~~agggggagtg
Dmel	349	AAATTAAGTCATGCTAAAGATCGTCAATTGACTGGAACTC~~~~~AAAAT
Dsim	349	AAATTAAGTCATGCTAAAGATCGTCAATTGACTGGAAATC~~~~~CAAAT
Dsec	356	aaattaagtcagctaaagatcgtcattgactggaaatc~~~~~caaat
Dere	344	aaattaaatcatgctaaagatcgtcattgactggaaactcggatcgaatggtgttcgaaat
Dyak	368	aaattaagtcagctaaagatcgtcattgactggaaactcgcatcgaatgctgttcgaaat
Dana	273	cattagagatcatcagatcagagactcgaag~~~~~
Dper	407	TGGCAGAATGGAATATCGTTT~GTCATTTAAGTGGAAATTCAAAACCTCAGGCCGAAATAA
Dpse	384	tggcagaatggaatcgttt~gtcatttaagtggaattccaaaactcaggtcgaataaa
Dvir	295	tacaa~~~~~ctggcgcagatgcataaatcaaagtcgcatt~~~~~aagcgaagcgaaac
Dmoj	409	tgtagggtattccagttcgc~tgcataaatcaaagtcatt~~~~~aagcgaagcgaaac
Dgri	322	cact~~~~~cgc~tgcataaataaatgaaaatcgtattcagcgaagcgaatc
Dmel	393	ACCCAAAAAAGAAAAGAAAAAACAACCCCTGGCCAAATTGAAATTATGATTAAGGCAA
Dsim	393	ACCCAAAAA~GAAAAA~~~~~CACCCAGGCCAAATTGAAATTATGATTAAGGCAA
Dsec	400	acccaaaaaa~gaaaaaa~~~~~cacccaggccaaattgaaattatgattaaggcaa
Dere	404	acccaaaaaa~gaaaaaa~~~~~cacccagaccaaaatgaaattatgattaag~~~~
Dyak	428	acccaaaaaa~gaaaaaa~~~~~cacccagaccaaaatgaaattatgattaagc~ag
Dana	304	acccaaacccaaaatcgagaaaaataaacagagccaggccggagcggagacac~~~~~
Dper	466	AATT~~~~~CAAATAAAAATTATGATTAAGCCAG
Dpse	443	aatt~~~~~caaaataaaattatgattaagccag
Dvir	344	acgaatgaattcgtagaaatgtca~~~acagtgacgtcacaatttcagaagaaa~cacac
Dmoj	463	~~gaatgaattcgtagaaatgtcagtgacagtgacgtcacagtttcaacagaaaacagac
Dgri	367	~~atatgaattcgtagaaatgtcacaat~~gtgacgtcacaatcttctaatt~~~~~
Dmel	453	GCGGCAG~~~CAGGCCACCAATGGCAAAAATTGGTCAACAC~~~AATTCTGTGACGTTT
Dsim	444	GCGG~~~~~CAGCGGGCCAAATGGCAAAAATTGGTCAACAC~ATTGGTCTGTGACGTTT
Dsec	451	gcg~g~~~~~cagcaggccaaatgtcaaaaattgggtcaaac~attggctctgtgacgttt
Dere	449	~~~~~cagcaggccaaatggcaaaaattgggtcaacacggc~~~tctgtgacgttt
Dyak	478	gcagcagg~~cagcaggccaaatggcaaaaattgggtcaacacggc~~~tctgtgacgttt
Dana	357	~~~~~caggccaggccaggttgcaaaaattggccagcagctg~~~~~tgacgttt
Dper	495	AAAAAGACACACACAGACACACACACAG~~~~~CTGTGACGTTT
Dpse	472	aaaaagacacagacacacacacacaca~~g~~~~~ctgtgacgttt
Dvir	400	accaaaaa~~~tgaattcaattaaaagctgttttaagaccgaaattccccacgctccgcca
Dmoj	522	cacagaaaactgaattaaattaaaagctgtttt~agacagaaattccccctgct~~~~~t
Dgri	415	~~~~~aattgacttaaaagcgttttaagcacaacaaattccccactcactgcat
Dmel	507	GATAAGCTGTTGGGGCCAAAAAGGTGACTCTCGCCCCGAATCGCGGCTCAATAG~~~~~
Dsim	497	GATAAGCTGCTGGGGCCAAAAAGGTGGCTCT~~~~~
Dsec	504	gataagctgctggggccaaaaaggtggctct~~~~~
Dere	497	gataagctgctggggccaaaaaggtggctctcgtctcgaattgctggctcaataa~~~~~
Dyak	533	gataagctgctggggccaaaaaggtggctctcgcctcgaattgctggctcaataaccaata
Dana	403	gataagctgctgaggccaaaaggtggctctaaagagcat~~~~~aatat~~~~~
Dper	536	GATGGGCTTCGTAT~~~~~

GRH

Dmel 901 T~~AACAAGTTTCAAAAGAAGTGC GGGTACACAGCAAACAAAACCTTGC GCCAAATTTTAT
Dsim 846 T~~AACAAGTTCTCAAAGAAGTGC GGGTACACAGTAAACAAAACCTTGTGGCTCATACAAT
Dsec 841 t~~aacaagttctcaaagaactg cggatacacagtaaacaaaacttgtgcctcatacaat
Dere 876 t~~aacaagttttcaaagaactg cgggtacacagtaaagaagatttgtgccttgtttaat
Dyak 928 t~~aacaagttttcaaagaactg c gactacacagtaaacaaagatttg~gccttattcctt
Dana 715 ~~~~~~
Dper 872 T~~AACAAGTTTTCTTGAGCAGCCGCACAGTGGGCTGGCCTCCCATGGTTACCACGTGCC
Dpse 866 t~~aacaagttttcttgagcagccgcacagtg gggctggcctcccatggttaccacgtgcc
Dvir 945 ggaaacaagttgtcg~~~cacagtg ggc aagtggtcttatactgtgact~~~~~
Dmoj 1030 agaaacaagttgtcg~~~cac cgtgggcaaagagatacttattctgtgtaactctatatac
Dgri 1017 ~~~aacaagttgtcgtcgcacagtg ggc aagttg~~cttatgtattgta~tgtatgtat

GRH

Dmel 959 ATTCGATTCAAAGAAATATTCTTAATATTTTA~~~~~TTTATTTCATGGCAACTTGTT
Dsim 904 TTTTCGAT~~~~TATTATAATTATTATATTTGA~~~~~TTGGTTTCATGGCAACTTTTT
Dsec 899 tttc gat~~~~tattattattattatatttga~~~~~ttggttcatggcaacttttt
Dere 934 tttccatacgcagaaaaatacatttcaatgg tattgattggttgttcacggacacatttt
Dyak 985 tttaaattcgcag gaaaataca~~~~~ttcttatgggtatcaatttatagattgta
Dana 715 ~~~~~~
Dper 930 ACTTGCCACTTGCCACAGAGCAGAGCCCTAGATCGGGGCAGAGACTGGTACCTGGTACCT
Dpse 924 acttgccacttgccacagagcagagccctagat cggggcagagactgggtgcctggtaact
Dvir 993 ~~~~~~tacatataattgtaatcgcat t gtt~~~~~
Dmoj 1087 atacataatttgcatacacacataatataatgaat atgtatattgtaatcgcat t gttggtg~
Dgri 1073 atataatatttatataatataatataatataatgtatttcaattgcatta~~~~~ttggtggtg

Dmel 1011 CAAAAGTGTTTTACAATATAATCTGCAAAACCTTAACCACTTCAGTTGTGTGGGAGGTTTT
Dsim 952 CCCAAGTGTCTTACATTTTGTCTGCGTAACCCTAACAACCTTCAGTTGTGTGGGAGATTT
Dsec 947 cccaagtgcttacat ttttaactctgcgtaaccctaacaacttcagttgtgtgggagattt
Dere 994 gccaagtg ttttacgatttgatctgcggaaccctaaccacttcagttgtgtgggagattt
Dyak 1036 tctgattgg tttatgag~~~atctgcgaaaccctaacaacttgagttgtgtgggagatta
Dana 715 ~~~~~~
Dper 990 GGCACCTGGTACCTGTAGGCCTGTGTGGAGTGTGGAGTGTGGGTGCGAAAAACCCATTGA
Dpse 984 g~~~~~taggcctgtggagtgtgggtcgcaaaaaccattga
Dvir 1017 ~~~~~~accacgtgccacttg cagcttgcggtgtaaa~~caccac
Dmoj 1145 ~~~~~~ttg taccacgtgccacttg cagcttagcgtggtgtaaa~~caccac
Dgri 1128 tgcttaagttat tttttttg t taccacgtgccacttg cagcttagcgtggtgtaaaccaaac

Dmel 1071 CAATTGACTGGCATTCTTTGGCAAAATTGTAGGCCATAAAGATATGAAATTGCAGAGAC
Dsim 1012 CAGTTGACTGGCATTCTTTGGCCATATTTTGGGCCATAAAGATATGAAATTGCAGAGAC
Dsec 1007 caattgactggcatttctttggccatattttgagccataaagat atgaaatttcagagac
Dere 1054 caattgagtg g catttctttggcaaaatttcaggccataaacat atgaaattacagagat
Dyak 1093 caattgactggcatttctttgggcaaaacttcgaggccataaacat atgaaattacagagat
Dana 715 ~~~~tgactggcagctctagccc~~~~~
Dper 1050 AAGACCTATGAAATTTAATAGATTTTCATGAAAGTATCCATCGGATT~~~~~
Dpse 1021 aagacctatgaaattta atagatttcatgaaagtatccatcggatt~~~~~
Dvir 1055 aaatgaggtcgtcggcg t t atgaagcaggaggcgtgtagacgtgggctga~~~~~
Dmoj 1188 aaatgaggtcgccgcta~~~~~aggaggcgtgtagacgtgggcccagaaaaaaa
Dgri 1188 aaatgaggtcgtcagtg t tccgaaggagactcaac~~agacgtgggcccgtcaat atgact

Dmel 1131 TTTT~GAAAGCTGCCAATGCCAACTGATTGACAGCAGGATCCTT
Dsim 1072 TTTT~GAAAGCTGCCAATGCCAACTGATTGACAGCAGAATTTG
Dsec 1067 tttt~gaaagctgccaatgccaactgattgacagcagaatttcg
Dere 1114 tttt~gaaagctgccaatgccaatgattgacagcagaatttcg
Dyak 1153 ttttcgaaagctgccaatgccaactgattgacagctgaatttcg
Dana 734 ~~~~~~gattgacagcgc
Dper 1095 ~~~~~~GGATTGACAG
Dpse 1066 ~~~~~~ggattgacag
Dvir 1104 ~~~~~~ctttttg cgtattggccgcat t tctaagccgtt
Dmoj 1239 tctacttttttttttttgcaaaactggccgcatttcttagccgaa

Dgri 1246 ata~~~~tttttttagcgaattggccgatttctaagccgaa