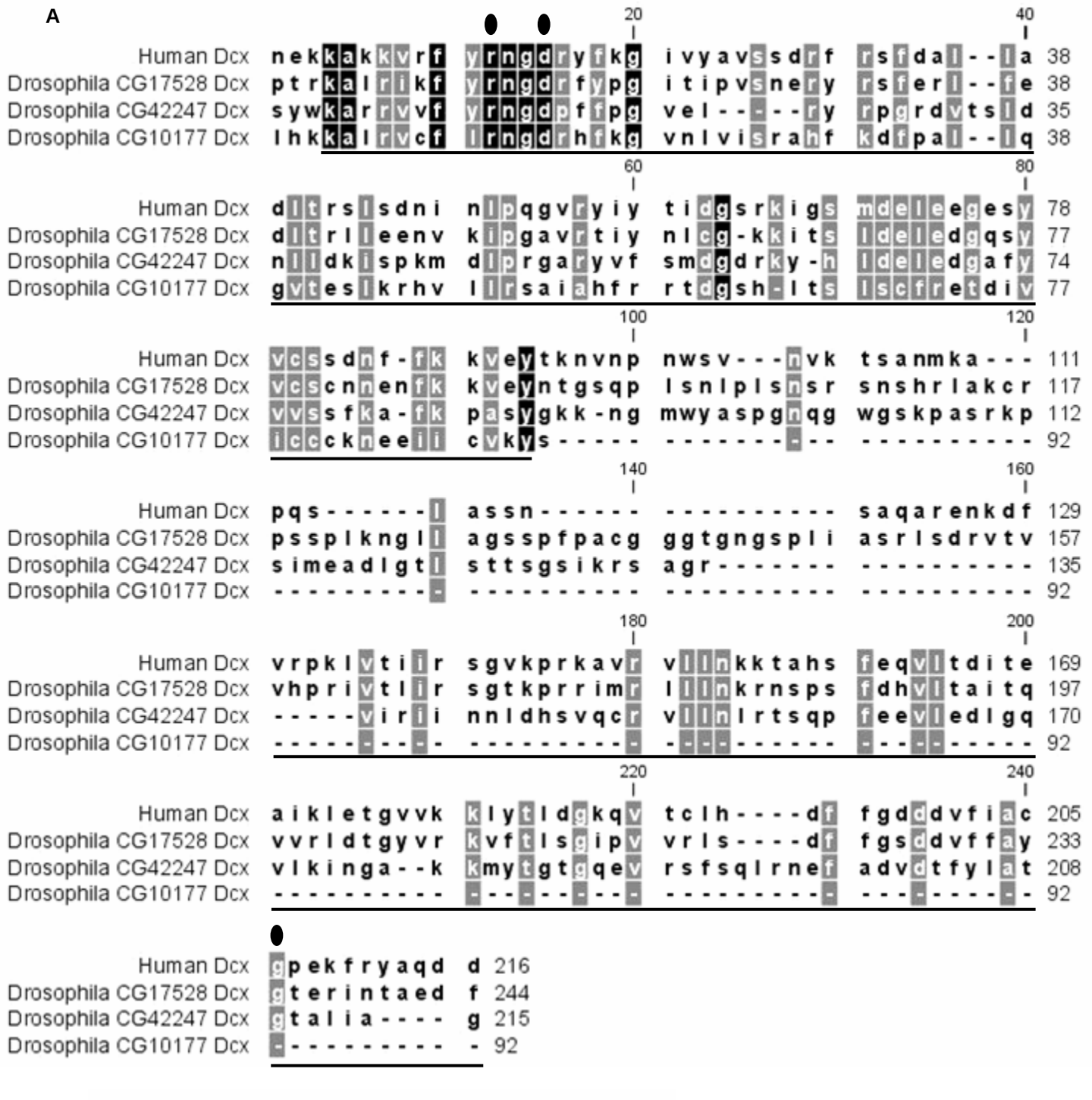

A

```
                                                  20                                                  40
Human Dcx                 nekkakkvrf  yrngdryfkg  ivyavssdrf  rsfdal--la  38
Drosophila CG17528 Dcx    ptrkalrikf  yrngdrfypg  itipvsnery  rsferl--fe  38
Drosophila CG42247 Dcx    sywkarrvvf  yrngdpffpg  vel-----ry  rpgrdvtsld  35
Drosophila CG10177 Dcx    lhkkalrvcf  lrngdrhfkg  vnlvisrahf  kdfpal--lq  38

                                                  60                                                  80
Human Dcx                 dltrslsdni  nlpqgvryiy  tidgsrkigs  mdeleegesy  78
Drosophila CG17528 Dcx    dltrlleenv  kipgavrtiy  nlcg-kkits  ldeledgqsy  77
Drosophila CG42247 Dcx    nlldkispkm  dlprgaryvf  smdgdrky-h  ldeledgafy  74
Drosophila CG10177 Dcx    gvteslkrhv  llrsaiahfr  rtdgsh-lts  lscfretdiv  77

                                                 100                                                 120
Human Dcx                 vcssdnf-fk  kveytknvnp  nwsv---nvk  tsanmka---  111
Drosophila CG17528 Dcx    vcscnnenfk  kveyntgsqp  lsnlplsnsr  snshrlakcr  117
Drosophila CG42247 Dcx    vvssfka-fk  pasygkk-ng  mwyaspgnqg  wgskpasrkp  112
Drosophila CG10177 Dcx    iccckneeii  cvkys-----  -------- --  ----------  92

                                                 140                                                 160
Human Dcx                 pqs------l  assn------  ----------  saqarenkdf  129
Drosophila CG17528 Dcx    pssplkngll  agsspfpacg  ggtgngspli  asrlsdrvtv  157
Drosophila CG42247 Dcx    simeadlgtl  sttsgsikrs  agr-------  ----------  135
Drosophila CG10177 Dcx    ---------- ----------  ----------  ----------  92

                                                 180                                                 200
Human Dcx                 vrpklvtiir  sgvkprkavr  vllnkktahs  feqvltdite  169
Drosophila CG17528 Dcx    vhprivtlir  sgtkprrimr  lllnkrnsps  fdhvltaitq  197
Drosophila CG42247 Dcx    -----viriii  nnldhsvqcr  vllnlrtsqp  feevledlgq  170
Drosophila CG10177 Dcx    ----------- ---------- ----------  ----------  92

                                                 220                                                 240
Human Dcx                 aikletgvvk  klytldgkqv  tclh----df  fgdddvfiac  205
Drosophila CG17528 Dcx    vvrldtgyvr  kvftlsgipv  vrls----df  fgsddvffay  233
Drosophila CG42247 Dcx    vlkinga--k  kmytgtgqev  rsfsqlrnef  advdtfylat  208
Drosophila CG10177 Dcx    ----------- ---------- ----------  ----------  92

Human Dcx                 gpekfryaqd  d  216
Drosophila CG17528 Dcx    gterintaed  f  244
Drosophila CG42247 Dcx    gtalia----  g  215
Drosophila CG10177 Dcx    ---------- -  92
```

B

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Human L1-CAM          1222 DGSFIGQYS 1230
Drosophila Nrg        1227 DGSFIGQYG 1235
Human Neurofascin     1134 DGSFIGQYT 1142
Drosophila Echinoid   1308 DDSFEGEYS 1316
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