**Supplementary File 3.** Gene ontology analyses of those transcripts that present neuron subgroup specific cycling AS structures.

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| **Neuron subgroup** | **GO category** | **Genes** |
| LNv | Locomotor behavior | *CASK*, *Nrx-1* and *unc-104* |
|  | Male courtship behavior | *CASK*, *syn*, *fne*, *Gr43a*, *pros* |
| LNd | Locomotor behavior | *dnc*, *gw*, *sgg*, *Fer2LCH* |
|  | Olfactory learning | *PkaR1*, *klg*, *dnc*, *dikar*, *sgg* |
| DN1 | Locomotor behavior | *unc80*, *dlg1*, *dnc*, *PdfR*, *unc79* |
|  | mRNA binding proteins | *B52*, *HnRNP-K*, *Syp*, *heph*, *shep*, *ps*, *cop*, *bru3*, *Sxl*, *Rox8*, *Rb97b*, CG7879, *rump* |