PCTP_clu_164672_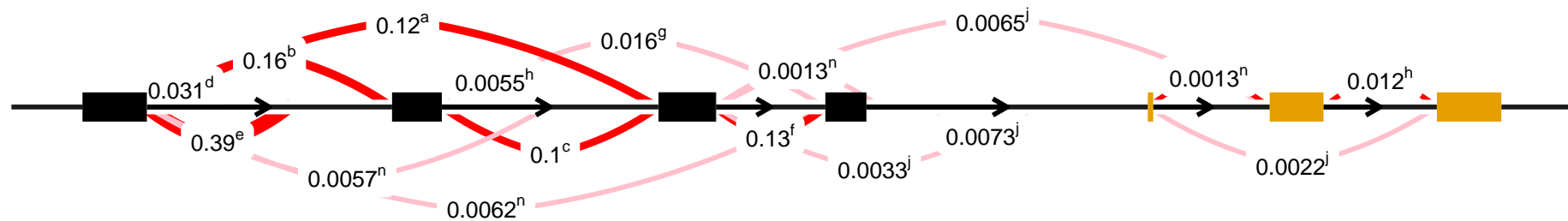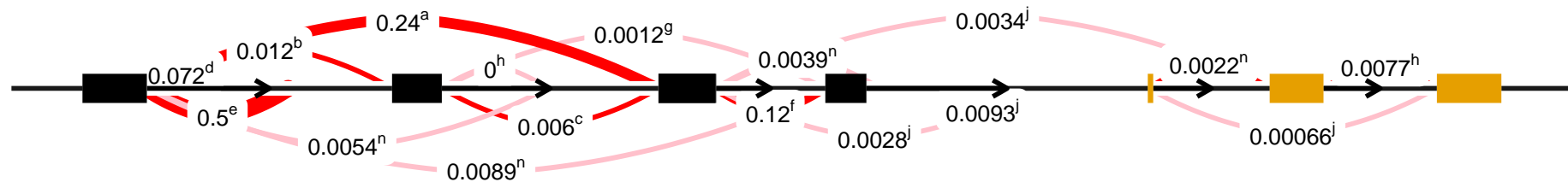+_top_9.pdf