

Alternative splicing associated with phenotypic plasticity in the bumble bee *Bombus terrestris*

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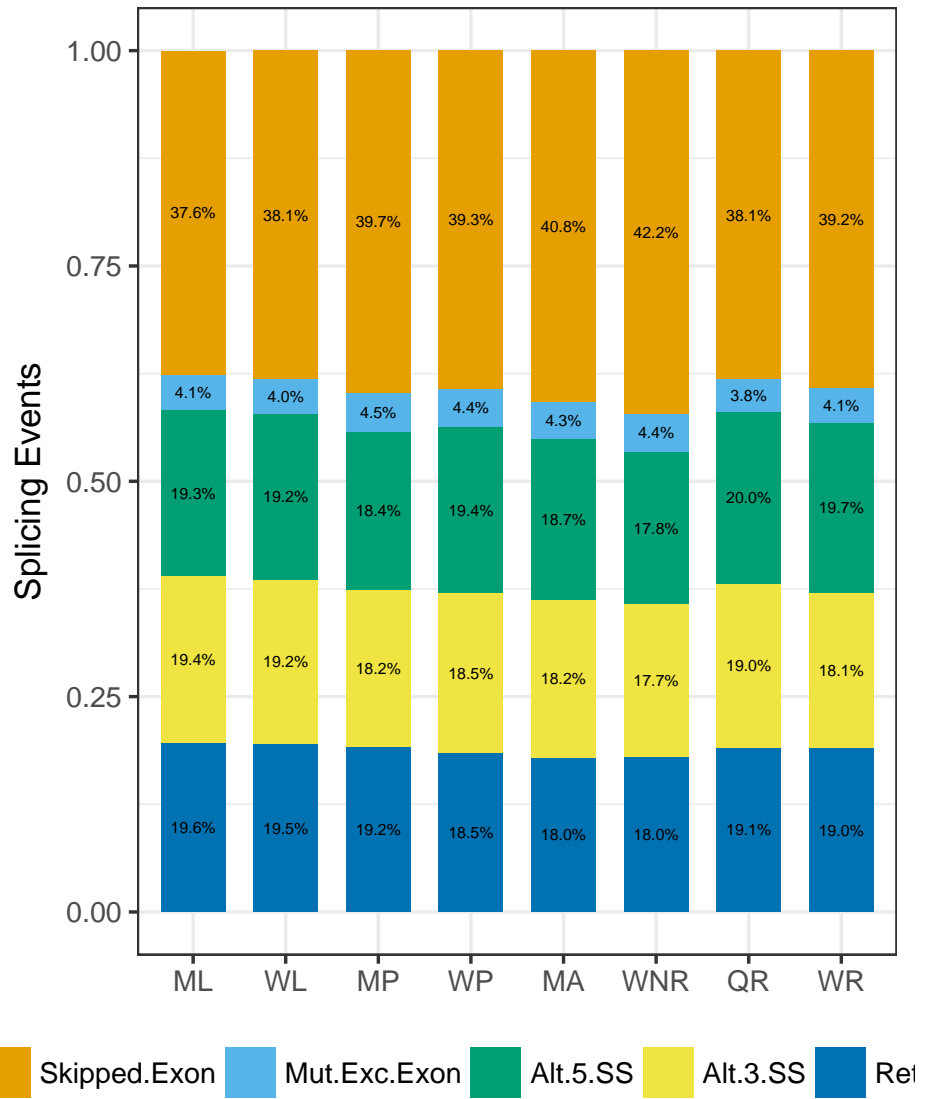


Figure S1: Proportion of splicing events belonging to each type (exon skipping, mutually exclusive exons, alternative 5' splice junction, alternative 3' splice junction and intron retention) from each sample.

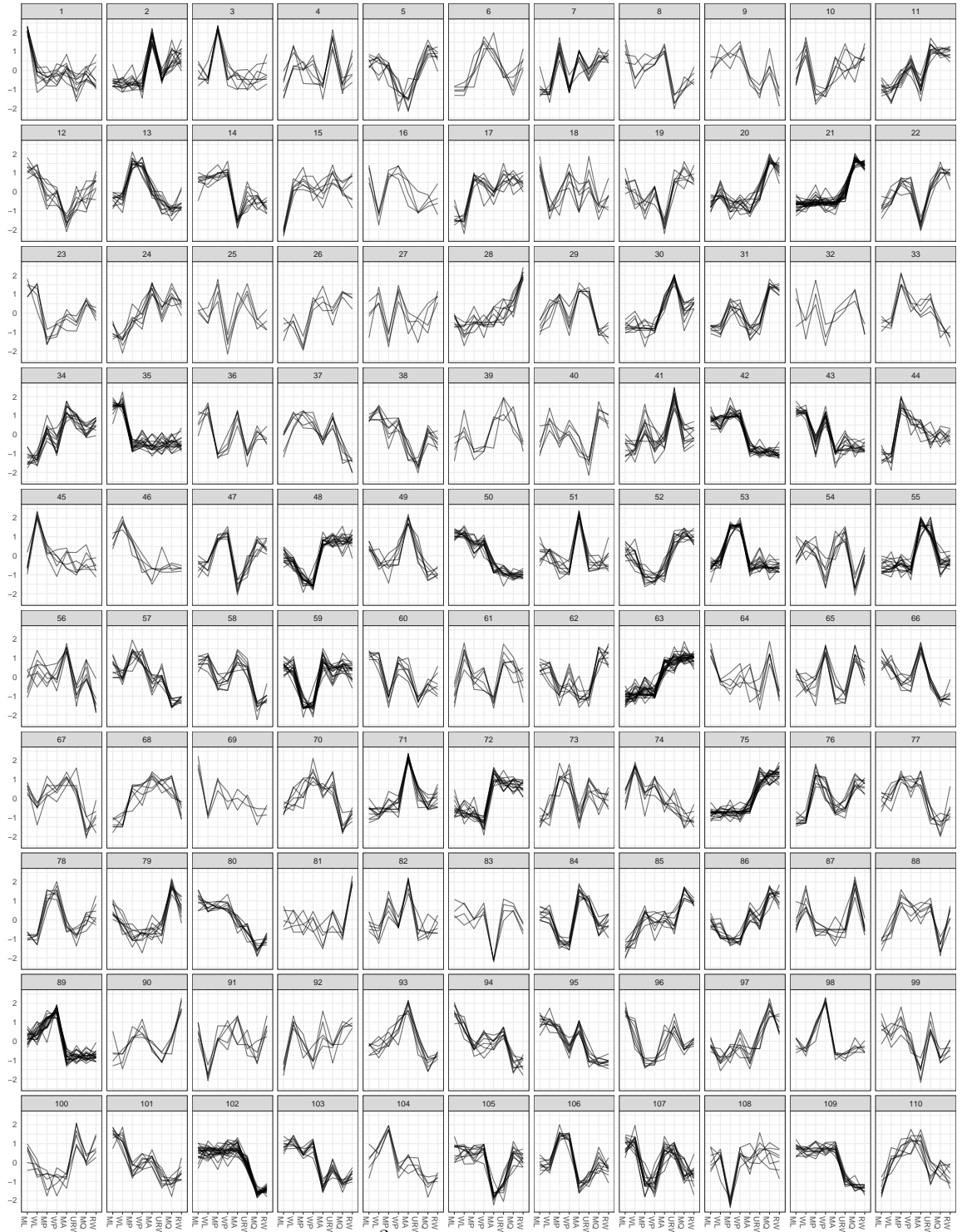


Figure S2: K-means clustering for the 1006 differentially expressed isoforms. QR = Queen Reproductive, WR = adult Worker Reproductive, WNR = adult Worker Non-Reproductive, WP = Worker Pupae, WL = Worker Larvae, MA = Male Adult, MP = Male Pupae, ML = Male Larvae.

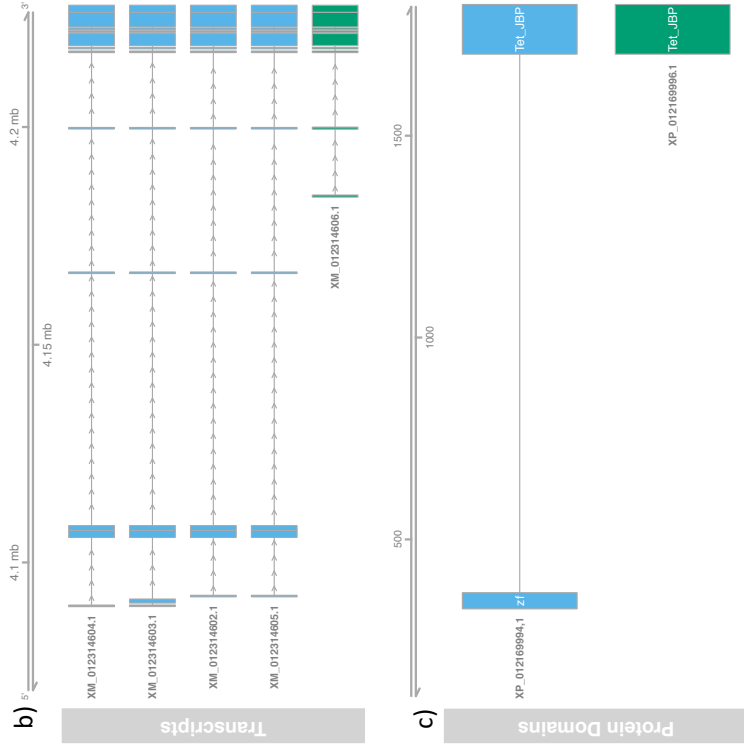


Figure S3: **a.** Expression (FPKM) of *Methylcytosine dioxygenase TET2* transcripts over the different castes and developmental stages. Circles represent the means, the error bars are standard errors of the mean. XM_012314604.1 represents XM_012314602.1, XM_012314603.1, XM_012314604.1 and XM_012314605.1. QR = Queen Reproductive, WR = adult Worker Reproductive, WNR = adult Worker Non-Reproductive, WP = Worker Pupae, WL = Worker Larvae, MA = Male Adult, MP = Male Pupae, ML = Male Larvae. **b** Exon map of the two transcripts. **c** Protein domains encoded by the transcripts. zf = CXXC zinc finger domain, Tet_JBP = Oxygenase domain of the 2OGFeDO superfamily. XP_012169994.1 represents proteins encoded by XM_012314602.1, XM_012314603.1, XM_012314604.1 and XM_012314605.

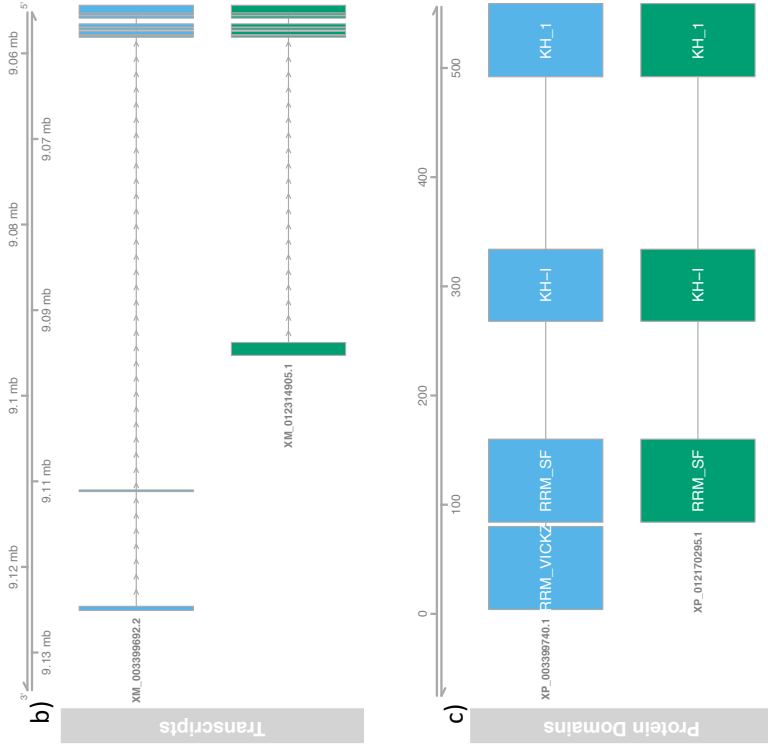


Figure S4: **a.** Expression (FPKM) of the two transcripts of *Insulin-like growth factor 2 mRNA-binding protein 1* over the different castes and developmental stages. Circles represent the means, the error bars are standard errors of the mean. QR = Queen Reproductive, WR = adult Worker Reproductive, WNR = adult Worker Non-Reproductive, WP = Worker Pupae, WL = Worker Larvae, MA = Male Adult, MP = Male Pupae, ML = Male Larvae **b** Exon map of the two transcripts. **c** Protein domains encoded by the two transcripts. KH-I = K homology RNA-binding domain, type I, KH_1 = KH domain, RRM_VICKZ = RNA recognition motif 1 in the VICKZ family proteins, RRM_SF = RNA recognition motif superfamily.