hrmA cluster 16 Afu5g14830 14 Afu5g14840 12 Afu5g14845 Afu5g14850 10 Afu5g14860 8 Afu5g14865 6 Afu5g14870 4 Afu5g14880 2 Afu5g14890 Afu5g14900 Afu5g14910 Afu5g14920

hrmA_

_REV_Hypoxia.r3 Normoxia.r1 Normoxia.r2 Normoxia.r3

EVOL

EVOL EVOL EVOL EVOL

EVOL_Hypoxia.r3

Hypoxia.r2 Hypoxia.r1

Afu5g14930 Afu5g14940 Afu5g14950 Afu5g14960 Afu5g14970

Delta_

hrmA

_AF293_Normoxia.r2 _AF293_Normoxia.r3 _AF293_Hypoxia.r1 _AF293_Hypoxia.r2

Delta_hrmA₋

Delta_hrmA_

AF293

_Normoxia.r′

AF293_Normoxia.r1 AF293_Normoxia.r2 AF293_Normoxia.r3 AF293_Hypoxia.r1 AF293_Hypoxia.r2 AF293_Hypoxia.r3 Delta_ Delta_ Delta_

hrmA _hrmA_ _hrmA_

hrmA_

hrmA_OE_

_Normoxia.r2

_OE_Normoxia.r1

_AF293_Hypoxia.r3

hrmA_OE_ hrmA_OE_

_Normoxia.r3

_Hypoxia.r1 _Hypoxia.r2

hrmA_OE_

hrmA_OE_Hypoxia.r3 hrmA_REV_Normoxia.r1 hrmA_REV_Normoxia.r2 hrmA_REV_Normoxia.r3 hrmA_REV_Hypoxia.r1 hrmA_REV_Hypoxia.r2



