**The whole body transcriptome of *Coleophora obducta* reveals important olfactory proteins**

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**Supplementary file 2**

**The protein names and gene accession number were used in phylogenetic trees**

|  |  |  |  |
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| KX015850 | | EoblCXE8 | | | | MK864086 | | | | | PintCXE26 | | | |  | | | |  | | |
| KX015851 | | EoblCXE9 | | | | MK864085 | | | | | PintCXE25 | | | |  | | | |  | | |
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| KX015854 | | EoblCXE12 | | | | MK864082 | | | | | PintCXE22 | | | |  | | | |  | | |
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| AII01109.1 | DkikOR2 | | | | AJO62234.1 | | | | | TmolOR15 | | | | CUQ99404.1 | | | | MsexOR22 | | | AUW64515.1 | | | AsutOrco | |
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| AII01099.1 | DkikOR12 | | | | AJO62222.1 | | | | | TmolOR3 | | | | CUQ99394.1 | | | | MsexOR10 | | | AWO14314.1 | | | LstrOrco | |
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| AII01094.1 | DkikOR17 | | | | ADD14627.1 | | | | | DmauOR59c | | | | CUQ99389.1 | | | | MsexOR5 | | | AVN97813.1 | | | AchiOrco | |
| AII01093.1 | DkikOR18 | | | | ADD14626.1 | | | | | DmauOR59b | | | | CUQ99388.1 | | | | MsexOR4 | | |  | | |  | |
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| AII01091.1 | DkikOR20 | | | | ADD14624.1 | | | | | DmauOR42b | | | | ACM18059.1 | | | | MsexPR | | |  | | |  | |
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| AII01088.1 | DkikOR23 | | | | AFL70825.1 | | | | | MsexOR62 | | | | AII15784.1 | | | | ScerOrco | | |  | | |  | |
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| AII01086.1 | DkikOR25 | | | | ADM32897.1 | | | | | MsexOR4 | | | | AWV67916.1 | | | | LcapOrco | | |  | | |  | |
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| AII01084.1 | DkikOR27 | | | | CUQ99422.1 | | | | | MsexOrco | | | | AEA30004.2 | | | | CmegOrco | | |  | | |  | |
| AII01083.1 | DkikOR28 | | | | CUQ99421.1 | | | | | MsexOR80 | | | | AFH96944.1 | | | | MdomOrco | | |  | | |  | |
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| AII01079.1 | DkikOR32 | | | | CUQ99416.1 | | | | | MsexOR36 | | | | AWW05228.1 | | | | CcilOrco | | |  | | |  | |
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| ALT31681.1 | CmedPR2 | | | | CUQ99412.1 | | | | | MsexOR31 | | | | AJF94638.2 | | | | AquaOrco | | |  | | |  | |
| AJG42377.1 | HarmPR | | | | CUQ99411.1 | | | | | MsexOR30 | | | | AIO10777.1 | | | | AfunOrco | | |  | | |  | |
| AIZ94619.1 | OnubPR | | | | CUQ99410.1 | | | | | MsexOR29 | | | | AFC91712.1 | | | | CpomOrco | | |  | | |  | |
| JAG00306.1 | LhesPR | | | | CUQ99409.1 | | | | | MsexOR27 | | | | AOT85634.1 | | | | MdesOrco | | |  | | |  | |
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| XP\_006567396.1 | | | AmelOBP 3 X1 | | | | BAH36762.1 | | | | | | BmorOBP8 | | | | EFA04593.1 | | | TcasOBP7 | | | AGM38611.1 | | CsupOBP7 | |
| NP\_001164515.1 | | | AmelOBP 8 | | | | BAH36761.1 | | | | | | BmorOBP9 | | | | EFA04576.1 | | | TcasOBP24 | | | AGM38610.1 | | CsupOBP8 | |
| AAL60422.1 | | | AmelOBP 5 | | | | BAH36761.1 | | | | | | BmorOBP10 | | | | EFA02960.1 | | | TcasOBP19 | | | AGM38609.1 | | CsupOBP9 | |
| AAL60421.1 | | | AmelOBP 6 | | | | BAH36760.1 | | | | | | BmorOBP11 | | | | EFA02914.1 | | | TcasOBP14 | | | AGM38608.1 | | CsupOBP10 | |
| AAL60420.1 | | | AmelOBP 4 | | | | BAH36759.1 | | | | | | BmorOBP12 | | | | EFA02861.1 | | | TcasOBP17 | | | AGM38607.1 | | CsupOBP11 | |
| AAL60419.1 | | | AmelOBP 1 | | | | BAI44701.1 | | | | | | BmorOBP13 | | | | EFA02860.1 | | | TcasOBP18 | | | AGM38606.1 | | CsupOBP12 | |
| AAL60418.1 | | | AmelOBP 2 | | | | BAI44700.1 | | | | | | BmorOBP14 | | | | EFA02858.1 | | | TcasOBP13 | | | AGM38605.1 | | CsupOBP13 | |
| AAL60417.1 | | | AmelOBP 4 | | | | BAI22690.1 | | | | | | BmorOBP15 | | | | EFA02857.1 | | | TcasOBP12 | | | ADD71058.1 | | CsupOBP14 | |
| AAF06123.1 | | | SexiPBP | | | | BAI22689.1 | | | | | | BmorOBP16 | | | | AII01010.1 | | | DkikOBP1 | | | ACJ07120.1 | | CsupGOBP2 | |
| AAF06144.1 | | | CmurPBP4 | | | | BAH79159.1 | | | | | | BmorOBP17 | | | | AII01009.1 | | | DkikOBP2 | | | ACJ07127.1 | | CsupGOBP1 | |
| AAF06143.1 | | | YcagPBP | | | | CAA64445.1 | | | | | | BmorGOBP2 | | | | AII01008.1 | | | DkikOBP3 | | | ANZ73034.1 | | CsupOBP4 | |
| AAF06142.1 | | | SexiPBP | | | | CAA64444.1 | | | | | | BmorGOBP1 | | | | AII01006.1 | | | DkikOBP4 | | | ANZ73033.1 | | CsupOBP1 | |
| AAF06141.1 | | | PgosPBP | | | | NP\_001140190.1 | | | | | | BmorOBP6 | | | | AII01004.1 | | | DkikOBP5 | | |  | |  | |
| AAF06140.1 | | | CrosPBP1 | | | | NP\_001140188.1 | | | | | | BmorOBP4 | | | | AII01002.1 | | | DkikOBP6 | | |  | |  | |
| AAF06139.1 | | | CrosPBP2 | | | | NP\_001140185.1 | | | | | | BmorOBP1 | | | | AII01001.1 | | | DkikOBP7 | | |  | |  | |
| AAF06138.1 | | | CpinPBP1 | | | | NP\_001159622.2 | | | | | | BmorOBP56d | | | | AII01000.1 | | | DkikOBP8 | | |  | |  | |
| AAF06137.1 | | | CrosPBP | | | | XP\_021204926.1 | | | | | | BmorOBP1X1 | | | | AII00999.1 | | | DkikOBP9 | | |  | |  | |
| AAF06136.1 | | | Cpin PBP2 | | | | XP\_012547442.1 | | | | | | BmorOBP6X1 | | | | AII00998.1 | | | DkikOBP10 | | |  | |  | |
| AAF06135.1 | | | CpinPBP3 | | | | XP\_012547441.1 | | | | | | BmorOBP4X1 | | | | AII00997.1 | | | DkikOBP11 | | |  | |  | |
| AAF06134.1 | | | CparPBP1 | | | | CAS90130.1 | | | | | | BmorOBP6 | | | | AII00995.1 | | | DkikOBP12 | | |  | |  | |
| AAF06133.1 | | | CparPBP2 | | | | CAS90128.1 | | | | | | BmorOBP4 | | | | AII00994.1 | | | DkikOBP13 | | |  | |  | |
| AAF06132.1 | | | CmurPBP1 | | | | CAS90125.1 | | | | | | BmorOBP1 | | | | AII00993.1 | | | DkikOBP14 | | |  | |  | |
| AAF06131.1 | | | CmurPBP2 | | | | EFA02853.2 | | | | | | TcasOBP16 | | | | AII00992.1 | | | DkikOBP15 | | |  | |  | |
| AAF06130.1 | | | CmurPBP3 | | | | EFA04746.2 | | | | | | TcasOBP26 | | | | AII00991.1 | | | DkikOBP16 | | |  | |  | |
| AAF06129.1 | | | CfumPBP1 | | | | EFA04747.2 | | | | | | TcasOBP25 | | | | AII00990.1 | | | DkikOBP17 | | |  | |  | |
| AAF06128.1 | | | CfumPBP2 | | | | EFA04687.2 | | | | | | TcasOBP8 | | | | AII00989.1 | | | DkikOBP18 | | |  | |  | |
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| AAF06126.1 | | | AvelPBP1 | | | | EFA05676.2 | | | | | | TcasOBP2 | | | | AGJ83357.1 | | | DkikGOBP1 | | |  | |  | |
| AAF06125.1 | | | AvelPBP2 | | | | EFA09215.2 | | | | | | TcasOBP21 | | | | AGJ83353.1 | | | DkikGOBP2 | | |  | |  | |
| AAF06124.1 | | | AvelPBP3 | | | | EFA09155.2 | | | | | | TcasOBP22 | | | | ACX53761.1 | | | HvirOBP1 | | |  | |  | |
| AAC36315.1 | | | HzeaPBP | | | | EFA12066.1 | | | | | | TcasOBP15 | | | | ACX53748.1 | | | HvirOBP2 | | |  | |  | |
| BAF64703.1 | | | AselPBP2 | | | | EFA10803.1 | | | | | | TcasOBP23 | | | | ACX53819.1 | | | HvirOBP3 | | |  | |  | |
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