Table S2. The result of samples identification and the accession numbers in GenBank

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| --- | --- | --- | --- | --- | --- |
| Number | Species | Location | Code | Usage in article | GenBank Number |
| 1 | *Ectropis obliqua*  | Liyang (Jiangsu)  | LY1 | Detection of *Wolbachia*  | MN737651 |
| 2 | *Ectropis obliqua*  | Liyang (Jiangsu)  | LY2 | Detection of *Wolbachia*  | MN737652 |
| 3 | *Ectropis obliqua*  | Liyang (Jiangsu)  | LY3 | Detection of *Wolbachia*  | MN737653 |
| 4 | *Ectropis obliqua*  | Liyang (Jiangsu)  | LY4 | Detection of *Wolbachia*  | MN737654 |
| 5 | *Ectropis obliqua*  | Liyang (Jiangsu)  | LY5 | Detection of *Wolbachia*  | MN737655 |
| 6 | *Ectropis obliqua*  | Liyang (Jiangsu)  | LY6 | Detection of *Wolbachia*  | MN737656 |
| 7 | *Ectropis obliqua*  | Liyang (Jiangsu)  | LY7 | Detection of *Wolbachia*  | MN737657 |
| 8 | *Ectropis obliqua*  | Liyang (Jiangsu)  | LY8 | Detection of *Wolbachia*  | MN737658 |
| 9 | *Ectropis obliqua*  | Liyang (Jiangsu)  | LY9 | Detection of *Wolbachia*  | MN737659 |
| 10 | *Ectropis obliqua*  | Liyang (Jiangsu)  | LY10 | Detection of *Wolbachia*  | MN737660 |
| 11 | *Ectropis obliqua*  | Yuhang (Zhejiang) | YH1 | Detection of *Wolbachia*  | MN737631 |
| 12 | *Ectropis obliqua*  | Yuhang (Zhejiang) | YH2 | Detection of *Wolbachia*  | MN737632 |
| 13 | *Ectropis obliqua*  | Yuhang (Zhejiang) | YH3 | Detection of *Wolbachia*  | MN737633 |
| 14 | *Ectropis obliqua*  | Yuhang (Zhejiang) | YH4 | Detection of *Wolbachia*  | MN737634 |
| 15 | *Ectropis obliqua*  | Yuhang (Zhejiang) | YH5 | Detection of *Wolbachia*  | MN737635 |
| 16 | *Ectropis obliqua*  | Yuhang (Zhejiang) | YH6 | Detection of *Wolbachia*  | MN737636 |
| 17 | *Ectropis obliqua*  | Yuhang (Zhejiang) | YH7 | Detection of *Wolbachia*  | MN737637 |
| 18 | *Ectropis obliqua*  | Yuhang (Zhejiang) | YH8 | Detection of *Wolbachia*  | MN737638 |
| 19 | *Ectropis obliqua*  | Yuhang (Zhejiang) | YH9 | Detection of *Wolbachia*  | MN737639 |
| 20 | *Ectropis obliqua*  | Yuhang (Zhejiang) | YH10 | Detection of *Wolbachia*  | MN737640 |
| 21 | *Ectropis obliqua*  | Langxi (Anhui) | LX1 | Detection of *Wolbachia*  | MN737641 |
| 22 | *Ectropis obliqua*  | Langxi (Anhui) | LX2 | Detection of *Wolbachia*  | MN737642 |
| 23 | *Ectropis obliqua*  | Langxi (Anhui) | LX3 | Detection of *Wolbachia*  | MN737643 |
| 24 | *Ectropis obliqua*  | Langxi (Anhui) | LX4 | Detection of *Wolbachia*  | MN737644 |
| 25 | *Ectropis obliqua*  | Langxi (Anhui) | LX5 | Detection of *Wolbachia*  | MN737645 |
| 26 | *Ectropis obliqua*  | Langxi (Anhui) | LX6 | Detection of *Wolbachia*  | MN737646 |
| 27 | *Ectropis obliqua*  | Langxi (Anhui) | LX7 | Detection of *Wolbachia*  | MN737647 |
| 28 | *Ectropis obliqua*  | Langxi (Anhui) | LX8 | Detection of *Wolbachia*  | MN737648 |
| 29 | *Ectropis obliqua*  | Langxi (Anhui) | LX9 | Detection of *Wolbachia*  | MN737649 |
| 30 | *Ectropis obliqua*  | Langxi (Anhui) | LX10 | Detection of *Wolbachia*  | MN737650 |
| 31 | *Ectropis grisescens* | Langxi (Anhui) | LX11 | Detection of *Wolbachia*  | MN737671 |
| 32 | *Ectropis grisescens* | Langxi (Anhui) | LX12 | Detection of *Wolbachia*  | MN737672 |
| 33 | *Ectropis grisescens* | Langxi (Anhui) | LX13 | Detection of *Wolbachia*  | MN737673 |
| 34 | *Ectropis grisescens* | Langxi (Anhui) | LX14 | Detection of *Wolbachia*  | MN737674 |
| 35 | *Ectropis grisescens* | Langxi (Anhui) | LX15 | Detection of *Wolbachia*  | MN737675 |
| 36 | *Ectropis grisescens* | Langxi (Anhui) | LX16 | Detection of *Wolbachia*  | MN737676 |
| 37 | *Ectropis grisescens* | Guiyang (Guizhou) | GY1 | Detection of *Wolbachia*  | MN737707 |
| 38 | *Ectropis grisescens* | Guiyang (Guizhou) | GY2 | Detection of *Wolbachia*  | MN737708 |
| 39 | *Ectropis grisescens* | Guiyang (Guizhou) | GY3 | Detection of *Wolbachia*  | MN737709 |
| 40 | *Ectropis grisescens* | Guiyang (Guizhou) | GY4 | Detection of *Wolbachia*  | MN737710 |
| 41 | *Ectropis grisescens* | Guiyang (Guizhou) | GY5 | Detection of *Wolbachia*  | MN737711 |
| 42 | *Ectropis grisescens* | Guiyang (Guizhou) | GY6 | Detection of *Wolbachia*  | MN737712 |
| 43 | *Ectropis grisescens* | Guiyang (Guizhou) | GY7 | Detection of *Wolbachia*  | MN737713 |
| 44 | *Ectropis grisescens* | Guiyang (Guizhou) | GY8 | Detection of *Wolbachia*  | MN737714 |
| 45 | *Ectropis grisescens* | Guiyang (Guizhou) | GY9 | Detection of *Wolbachia*  | MN737715 |
| 46 | *Ectropis grisescens* | Guiyang (Guizhou) | GY10 | Detection of *Wolbachia*  | MN737716 |
| 47 | *Ectropis grisescens* | Yingde (Guangdong)  | YD1 | Detection of *Wolbachia*  | MN737697 |
| 48 | *Ectropis grisescens* | Yingde (Guangdong)  | YD2 | Detection of *Wolbachia*  | MN737698 |
| 49 | *Ectropis grisescens* | Yingde (Guangdong)  | YD3 | Detection of *Wolbachia*  | MN737699 |
| 50 | *Ectropis grisescens* | Yingde (Guangdong)  | YD4 | Detection of *Wolbachia*  | MN737700 |
| 51 | *Ectropis grisescens* | Yingde (Guangdong)  | YD5 | Detection of *Wolbachia*  | MN737701 |
| 52 | *Ectropis grisescens* | Yingde (Guangdong)  | YD6 | Detection of *Wolbachia*  | MN737702 |
| 53 | *Ectropis grisescens* | Yingde (Guangdong)  | YD7 | Detection of *Wolbachia*  | MN737703 |
| 54 | *Ectropis grisescens* | Yingde (Guangdong)  | YD8 | Detection of *Wolbachia*  | MN737704 |
| 55 | *Ectropis grisescens* | Yingde (Guangdong)  | YD9 | Detection of *Wolbachia*  | MN737705 |
| 56 | *Ectropis grisescens* | Yingde (Guangdong)  | YD10 | Detection of *Wolbachia*  | MN737706 |
| 57 | *Ectropis grisescens* | Xinchang (Zhejiang) | XC1 | Detection of *Wolbachia*  | MN737687 |
| 58 | *Ectropis grisescens* | Xinchang (Zhejiang) | XC2 | Detection of *Wolbachia*  | MN737688 |
| 59 | *Ectropis grisescens* | Xinchang (Zhejiang) | XC3 | Detection of *Wolbachia*  | MN737689 |
| 60 | *Ectropis grisescens* | Xinchang (Zhejiang) | XC4 | Detection of *Wolbachia*  | MN737690 |
| 61 | *Ectropis grisescens* | Xinchang (Zhejiang) | XC5 | Detection of *Wolbachia*  | MN737691 |
| 62 | *Ectropis grisescens* | Xinchang (Zhejiang) | XC6 | Detection of *Wolbachia*  | MN737692 |
| 63 | *Ectropis grisescens* | Xinchang (Zhejiang) | XC7 | Detection of *Wolbachia*  | MN737693 |
| 64 | *Ectropis grisescens* | Xinchang (Zhejiang) | XC8 | Detection of *Wolbachia*  | MN737694 |
| 65 | *Ectropis grisescens* | Xinchang (Zhejiang) | XC9 | Detection of *Wolbachia*  | MN737695 |
| 66 | *Ectropis grisescens* | Xinchang (Zhejiang) | XC10 | Detection of *Wolbachia*  | MN737696 |
| 67 | *Ectropis grisescens* | Enshi (Hubei)  | ES1 | Detection of *Wolbachia*  | MN737727 |
| 68 | *Ectropis grisescens* | Enshi (Hubei)  | ES2 | Detection of *Wolbachia*  | MN737728 |
| 69 | *Ectropis grisescens* | Enshi (Hubei)  | ES3 | Detection of *Wolbachia*  | MN737623 |
| 70 | *Ectropis grisescens* | Enshi (Hubei)  | ES4 | Detection of *Wolbachia*  | MN737624 |
| 71 | *Ectropis grisescens* | Enshi (Hubei)  | ES5 | Detection of *Wolbachia*  | MN737625 |
| 72 | *Ectropis grisescens* | Enshi (Hubei)  | ES6 | Detection of *Wolbachia*  | MN737626 |
| 73 | *Ectropis grisescens* | Enshi (Hubei)  | ES7 | Detection of *Wolbachia*  | MN737627 |
| 74 | *Ectropis grisescens* | Enshi (Hubei)  | ES8 | Detection of *Wolbachia*  | MN737628 |
| 75 | *Ectropis grisescens* | Enshi (Hubei)  | ES9 | Detection of *Wolbachia*  | MN737629 |
| 76 | *Ectropis grisescens* | Enshi (Hubei)  | ES10 | Detection of *Wolbachia*  | MN737630 |
| 77 | *Ectropis grisescens* | Nanchang (Jiangxi) | NC1 | Detection of *Wolbachia*  | MN737677 |
| 78 | *Ectropis grisescens* | Nanchang (Jiangxi) | NC2 | Detection of *Wolbachia*  | MN737678 |
| 79 | *Ectropis grisescens* | Nanchang (Jiangxi) | NC3 | Detection of *Wolbachia*  | MN737679 |
| 80 | *Ectropis grisescens* | Nanchang (Jiangxi) | NC4 | Detection of *Wolbachia*  | MN737680 |
| 81 | *Ectropis grisescens* | Nanchang (Jiangxi) | NC5 | Detection of *Wolbachia*  | MN737681 |
| 82 | *Ectropis grisescens* | Nanchang (Jiangxi) | NC6 | Detection of *Wolbachia*  | MN737682 |
| 83 | *Ectropis grisescens* | Nanchang (Jiangxi) | NC7 | Detection of *Wolbachia*  | MN737683 |
| 84 | *Ectropis grisescens* | Nanchang (Jiangxi) | NC8 | Detection of *Wolbachia*  | MN737684 |
| 85 | *Ectropis grisescens* | Nanchang (Jiangxi) | NC9 | Detection of *Wolbachia*  | MN737685 |
| 86 | *Ectropis grisescens* | Nanchang (Jiangxi) | NC10 | Detection of *Wolbachia*  | MN737686 |
| 87 | *Ectropis obliqua*  | Yuhang (Zhejiang) | O1 | Bacterial community analysis | MN737661 |
| 88 | *Ectropis obliqua*  | Yuhang (Zhejiang) | O2 | Bacterial community analysis | MN737662 |
| 89 | *Ectropis obliqua*  | Yuhang (Zhejiang) | O3 | Bacterial community analysis | MN737663 |
| 90 | *Ectropis obliqua*  | Yuhang (Zhejiang) | O4 | Bacterial community analysis | MN737664 |
| 91 | *Ectropis obliqua*  | Yuhang (Zhejiang) | O5 | Bacterial community analysis | MN737665 |
| 92 | *Ectropis obliqua*  | Yuhang (Zhejiang) | O6 | Bacterial community analysis | MN737666 |
| 93 | *Ectropis obliqua*  | Yuhang (Zhejiang) | O7 | Bacterial community analysis | MN737667 |
| 94 | *Ectropis obliqua*  | Yuhang (Zhejiang) | O8 | Bacterial community analysis | MN737668 |
| 95 | *Ectropis obliqua*  | Yuhang (Zhejiang) | O9 | Bacterial community analysis | MN737669 |
| 96 | *Ectropis obliqua*  | Yuhang (Zhejiang) | O10 | Bacterial community analysis | MN737670 |
| 97 | *Ectropis grisescens* | Xinchang (Zhejiang) | G1 | Bacterial community analysis | MN737717 |
| 98 | *Ectropis grisescens* | Xinchang (Zhejiang) | G2 | Bacterial community analysis | MN737718 |
| 99 | *Ectropis grisescens* | Xinchang (Zhejiang) | G3 | Bacterial community analysis | MN737719 |
| 100 | *Ectropis grisescens* | Xinchang (Zhejiang) | G4 | Bacterial community analysis | MN737720 |
| 101 | *Ectropis grisescens* | Xinchang (Zhejiang) | G5 | Bacterial community analysis | MN737721 |
| 102 | *Ectropis grisescens* | Xinchang (Zhejiang) | G6 | Bacterial community analysis | MN737722 |
| 103 | *Ectropis grisescens* | Xinchang (Zhejiang) | G7 | Bacterial community analysis | MN737723 |
| 104 | *Ectropis grisescens* | Xinchang (Zhejiang) | G8 | Bacterial community analysis | MN737724 |
| 105 | *Ectropis grisescens* | Xinchang (Zhejiang) | G9 | Bacterial community analysis | MN737725 |
| 106 | *Ectropis grisescens* | Xinchang (Zhejiang) | G10 | Bacterial community analysis | MN737726 |