**Supplemental Table 6.** 3’ UTR binding sites for miR934 on its predicted targets (adapted from Diana microT-CDS)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Target** | **Binding Type** | **Score** | **Position on chromosome** | **Conserved Species** | **Binding Area** |
| **STMN2** | 8mer | 0.039 | 8:80577484-80577512 | panTro2,rheMac2rn4,mm9,oryCun2bosTau4,canFam2dasNov2,loxAfr3 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| (Transcript) | 5' | \_\_\_\_\_\_AAAGAAAAAUGAG\_\_C\_\_\_\_\_\_\_\_ | 3' |  |  |  |  |
|  |  | \_UUCCA\_\_\_\_\_\_\_\_\_\_\_\_\_GU\_AGUAGACA |  |  |  |  |  |
|  |  | \_.||||\_\_\_\_\_\_\_\_\_\_\_\_\_||\_|||||||| |  |  |  |  |  |
|  |  | \_GAGGU\_\_\_\_\_\_\_\_\_\_\_\_\_CA\_UCAUCUGU |  |  |  |  |  |
| (miRNA) | 3' | A\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 5' |  |  |  |  |

 |
| **TFCP2L1** | 7mer | 0.01 | 2:121981854-121981879 | panTro2monDom5 |

|  |  |  |  |
| --- | --- | --- | --- |
| (Transcript) | 5' | AGC\_\_U\_\_\_GA\_\_\_CC\_\_\_GAU\_\_\_\_\_\_\_ | 3' |
|  |  | \_\_\_CC\_GUG\_\_UCC\_\_GUG\_\_\_GUAGACA |  |
|  |  | \_\_\_||\_|||\_\_|||\_\_||.\_\_\_||||||| |  |
|  |  | \_\_\_GG\_CAC\_\_AGG\_\_CAU\_\_\_CAUCUGU |  |
| (miRNA) | 3' | \_\_\_\_\_U\_\_\_AG\_\_\_U\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 5' |

 |
|  | 9mer | 0.02 | 2:121975850-121975867 | panTro2,rheMac2 |

|  |  |  |  |
| --- | --- | --- | --- |
| (Transcript) | 5' | AAAAAAAAAAU\_\_\_\_AUUUU\_\_\_\_\_\_\_\_\_ | 3' |
|  |  | \_\_\_\_\_\_\_\_\_\_\_UCUU\_\_\_\_\_UAGUAGACA |  |
|  |  | \_\_\_\_\_\_\_\_\_\_\_|||.\_\_\_\_\_||||||||| |  |
|  |  | \_\_\_\_\_\_\_\_\_\_\_AGAG\_\_\_\_\_AUCAUCUGU |  |
| (miRNA) | 3' | \_\_\_\_\_\_\_\_\_\_C\_\_\_\_GUC\_\_\_\_\_\_\_\_\_\_\_ | 5' |

 |
| **RAB3B** | 7mer | 0.006 | 1:52376808-52376829 | panTro2 |

|  |  |  |  |
| --- | --- | --- | --- |
| (Transcript) | 5' | UGGCUUC\_\_\_\_\_\_\_A\_\_\_\_\_CA\_\_\_\_\_\_\_\_ | 3' |
|  |  | \_\_\_\_\_\_\_CCAG\_GU\_UCCAG\_\_GGUAGACA |  |
|  |  | \_\_\_\_\_\_\_||||\_||\_|||||\_\_.||||||| |  |
|  |  | \_\_\_\_\_\_\_GGUC\_CA\_AGGUC\_\_UCAUCUGU |  |
| (miRNA) | 3' | \_\_\_\_\_\_\_\_\_\_\_A\_\_G\_\_\_\_\_A\_\_\_\_\_\_\_\_\_ | 5' |

 |
|  | 7mer | 0.002 | 1:52375870-52375892 | Not Conserved |

|  |  |  |  |
| --- | --- | --- | --- |
| (Transcript) | 5' | AGUAAA\_\_\_\_\_\_\_\_\_U\_\_\_ACCCCU\_\_\_\_\_\_\_ | 3' |
|  |  | \_\_\_\_\_\_CUA\_\_\_UCU\_CCA\_\_\_\_\_\_GUAGACA |  |
|  |  | \_\_\_\_\_\_|.|\_\_\_|||\_|||\_\_\_\_\_\_||||||| |  |
|  |  | \_\_\_\_\_\_GGU\_\_\_AGA\_GGU\_\_\_\_\_\_CAUCUGU |  |
| (miRNA) | 3' | \_\_\_\_\_\_\_\_\_CAC\_\_\_\_\_\_\_CAU\_\_\_\_\_\_\_\_\_\_ | 5' |

 |
|  | 8mer | 0.01 | 1:52380265-52380293 | panTro2 |

|  |  |  |  |
| --- | --- | --- | --- |
| (Transcript) | 5' | \_\_\_\_\_\_\_CUGA\_\_\_\_UUAUAU\_A\_\_\_\_\_\_\_\_ | 3' |
|  |  | \_AG\_GUC\_\_\_\_UCCA\_\_\_\_\_\_G\_AGUAGACA |  |
|  |  | \_||\_|||\_\_\_\_||||\_\_\_\_\_\_|\_|||||||| |  |
|  |  | \_UC\_CAG\_\_\_\_AGGU\_\_\_\_\_\_C\_UCAUCUGU |  |
| (miRNA) | 3' | G\_\_A\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_A\_\_\_\_\_\_\_\_ | 5' |

 |
|  | 8mer | 0.01 | 1:52380265-52380293 | panTro2 |

|  |  |  |  |
| --- | --- | --- | --- |
| (Transcript) | 5' | \_\_\_\_\_\_\_CUGA\_\_\_\_UUAUAU\_A\_\_\_\_\_\_\_\_ | 3' |
|  |  | \_AG\_GUC\_\_\_\_UCCA\_\_\_\_\_\_G\_AGUAGACA |  |
|  |  | \_||\_|||\_\_\_\_||||\_\_\_\_\_\_|\_|||||||| |  |
|  |  | \_UC\_CAG\_\_\_\_AGGU\_\_\_\_\_\_C\_UCAUCUGU |  |
| (miRNA) | 3' | G\_\_A\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_A\_\_\_\_\_\_\_\_ | 5' |

 |
| **FZD5** | 7mer | 0.03 | 2:208627688-208627711 | panTro2,rheMac2rn4,mm9,oryCun2bosTau4,canFam2loxAfr3 |

|  |  |  |  |
| --- | --- | --- | --- |
| (Transcript) | 5' | UAGAG\_\_\_\_C\_AUA\_\_\_\_\_UUU\_\_\_\_\_\_\_ | 3' |
|  |  | \_\_\_\_\_CCAG\_G\_\_\_CUUUA\_\_\_GUAGACA |  |
|  |  | \_\_\_\_\_||||\_|\_\_\_||..|\_\_\_||||||| |  |
|  |  | \_\_\_\_\_GGUC\_C\_\_\_GAGGU\_\_\_CAUCUGU |  |
| (miRNA) | 3' | \_\_\_\_\_\_\_\_\_A\_A\_\_\_\_\_\_\_CAU\_\_\_\_\_\_\_ | 5' |

 |
|  | 8mer | 0.005 | 2:208629524-208629544 | panTro2 |

|  |  |  |  |
| --- | --- | --- | --- |
| (Transcript) | 5' | AUUUCAUA\_\_\_\_\_UC\_\_\_\_AA\_\_\_\_\_\_\_\_ | 3' |
|  |  | \_\_\_\_\_\_\_\_UGUCU\_\_CCAG\_\_AGUAGACA |  |
|  |  | \_\_\_\_\_\_\_\_|||||\_\_||||\_\_|||||||| |  |
|  |  | \_\_\_\_\_\_\_\_ACAGA\_\_GGUC\_\_UCAUCUGU |  |
| (miRNA) | 3' | \_\_\_\_\_\_\_C\_\_\_\_\_\_\_\_\_\_\_A\_\_\_\_\_\_\_\_\_ | 5 |

 |