**Studies in zebrafish demonstrate that *CNNM2* and *NT5C2* are most likely the causal genes at the blood pressure-associated locus on human chromosome 10q24.32**

K.K. Vishnolia1,2,3, C. Hoene1,2,3, K. Tarhbalouti1,2,3, J. Revenstorff1,2,3, Z. Aherrahrou1,2,3, J. Erdmann1,2,3, \*

**Supplementary file 1**

 PCR conditions mentioned below for genotyping and qPCR

**(Taqman) HT7900 qPCR program**

50°C 2min

95°C 10min

95°C 15sec |

60°C 1min | x40

95°C 15sec

60°C 15sec

95°C 15sec

**(Taqman) qPCR reaction**

3.75µl PowerUp qPCR Mastermix with SybrGreenI

1.125µl dd Water

1.125µl Primer F+R (5pmol/µl)

1.5µl cDNA (5-10 ng/µl)

**Genotyping PCRs**

**NT5C2A**

* Primer: zfNT5C2A-RFLP
* PCR: TD62s30: 94°C 3min

 94°C 30s |

 62°C 30s |

 72°C 30s | x3

 94°C 30s |

 60°C 30s |

 72°C 30s | x3

 94°C 30s |

 58°C 30s |

 72°C 30s | x3

 94°C 30s |

 56°C 30s |

 72°C 30s | x35

 72°C 10min

* PCR: Bioline 5xBuffer 3.0µl

 H2O 9.4µl

 MyTaq 0.1µl

 DNA 1.0µl

 Primer F (10µM) 0.75µl

 Primer R (10µM) 0.75µl

* RFLP : 10xFast Digest Buffer 2.5µl

 20xSAM 1.25µl

 Water 5.25µl

 BseMII 1.0µl

 PCR reaction 15µl

* incubation at 55°C for 2h, then agarose gel 2%
* G-Allel: 215, 111, 32, 205bp
* T-Allel: 215, 143, 205bp

**CNNM2A**

* Primer: zfCNNM2a-RFLP
* PCR: TD64s30: 94°C 3min

 94°C 30s |

 64°C 30s |

 72°C 30s | x3

 94°C 30s |

 62°C 30s |

 72°C 30s | x3

 94°C 30s |

 60°C 30s |

 72°C 30s | x3

 94°C 30s |

 58°C 30s |

 72°C 30s | x35

 72°C 10min

* PCR: TaKaRa GCI buffer 5.0µl

 dNTPs 0.8µl

 H2O 2.3µl

 MyTaq 0.1µl

 DNA 1.0µl

 Primer F (10µM) 0.5µl

 Primer R (10µM) 0.5µl

* RFLP : 10xFast Digest Buffer 2.0 µl

 Water 17.0µl

 TaqI (10u/µl) 1.0 µl

 PCR reaction 10.0µl

* incubation at 65°C for 3h, then agarose gel 2%
* KO: 553bp
* WT: 218, 335bp

**CYP17A1**

* Primer: zfCyp17A1-seq
* PCR: TD61s30: 94°C 3min

 94°C 30s |

 61°C 30s |

 72°C 30s | x3

 94°C 30s |

 59°C 30s |

 72°C 30s | x3

 94°C 30s |

 57°C 30s |

 72°C 30s | x3

 94°C 30s |

 55°C 30s |

 72°C 30s | x35

 72°C 10min

* PCR: Bioline 5xBuffer 2.0µl

 H2O 6.4µl

 MyTaq 0.1µl

 DNA 0.5µl

 Primer F (10µM) 0.5µl

 Primer R (10µM) 0.5µl

* then sequencing with F-Primers