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| Accession no | Transcript | 5’ Forward 3’ | 5’ Reverse 3’ |
| NM\_021488.5 | GHRL | TGGAGATCGCGCAGATCAG | CCGGGAACTCTCATCCTTCAG |
| NM\_146146.3 | LEPR | AAATGTCACCTTGCTTTGGAAGCC | ACGATGCTTCACCACGTACCTC |
| 10336022-350288 A04 | CB1R | AAGTCGATCTTAGACGGCCTT | TCCTAATTTGGATGCCATGTCTC |
| NM\_008895.3 | POMC | GCCACTGAACATCTTTGTCCC | AATCTCGGCATCTTCCACGT |
| NM\_010568 | INSR 1 | GGTGAACCTCAGTCCTAAC | GAGAAAGTCTCGGAGCTATG |
| NM\_031103 | RPL19 | TCGCCAATGCCAACTCTCGTC | AGCCCGGGAATGGACAGTCAC |
| NM\_031144.3 | Actb | CACTGCCGCATCCTCTTCCT | AACCGCTCATTGCCGATAGTG |

Supplementary table 1. Hypothalamic and lingual primer sequences

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| NM\_031873 | TAS1R2 F | CCTTCCAAAGCATCGCCTCCTA | CCAGGCTGGCAACTCTTAGAAC |
| NM\_031872 | TAS1R3 F | TACAGTGTGGCTCAAGCCCTTC | CAAACTGTAGTGTCAAGTCTCGAG |
| NM\_001159558 | FAT/CD36 | GATGACGTGGCAAAGAACAG | TCCTCGGGGTCCTGAGTTAT |
| NM\_194057 | Ffar1 F | GCTTGGTCTACACTCTCCATCTG | CCAAGGCAAAGACTGGGCAGAA |
| NM\_181748 | Ffar4 F | GTGACTTTGAACTTCCTGGTGCC | CAGAGTATGCCAAGCTCAGCGT |