

### Appendix 3. Sense oligonucleotides for the electrophoretic mobility shift assays.

| <b>Binding element</b> | <b>Position relative to transcription start site</b> | <b>Sense oligonucleotide sequence (5' to 3')</b> |
|------------------------|--|--|
| MITF site (M-box)      | -104 to -99  | <i>ctagaagtcagtc<u>atgtg</u>cttttcaga</i>        |
| MITF site (mM-box)     | -104 to -99  | <i>ctagaagtcagtc<u>ACtGT</u>Acttttcaga</i>       |
| MITF site (E-box)      | -12 to -7  | <i>atcgtcagccaagacat<u>gtg</u>ataatcactg</i>     |
| MITF site (mE-box)     | -12 to -7  | <i>atcgtcagccaaga<u>ACTgt</u>Aataatcactg</i>     |
| OTX2 site (wt1/wt2)    | -361 to -349   | <i>atcgaccataatctt<u>taata</u>cttct</i>          |
| OTX2 site (m1/wt2)     | -361 to -349   | <i>atcgaccca<u>GaTCT</u>ttaatacttct</i>          |
| OTX2 site (wt1/m2)     | -361 to -349   | <i>atcgaccataatctt<u>GGat</u>Cttct</i>           |
| OTX2 site (m1/m2)      | -361 to -349   | <i>atcgaccca<u>GaTCT</u>ttGGatCttct</i>          |
| OTX2 site (wt3)        | -226 to -221   | <i>atcgtattacta<u>atct</u>tattgta</i>            |
| OTX2 site (m3)         | -226 to -221   | <i>atcgtattattac<u>GGatc</u>Ctattgta</i>         |
| OTX2 site (SNP)        | -223 (T/C)<br>SNP rs4547091                          | <i>atcgtattacta<u>aaC</u>ttattgta</i>            |

The positions of the binding elements are underlined and mutated nucleotides are in capital letters.

For each oligonucleotide, four unspecific nucleotides at the 5'-end were designed for fill-in labeling with [ $\alpha$ -<sup>32</sup>P] dCTP (*italics*).

Complementary antisense sequences are not shown.