

Appendix 8. Nuclear protein binding to proximal MITF binding elements in the human

tyrosinase promoter. Nuclear protein binding to M-box and E-box binding elements was studied by using double-stranded DNA probes and nuclear extracts from ARPE-19 cells cultured for 14 days. **Top panel**, labelled M-box probe was competed with a 6-fold excess of unlabelled probes for unrelated GAL4 (*lane 2*), wild-type M-box (*lane 3*), mutated M-box (*lane 4*) or wild-type OTX2 site 3 (*lane 5*). **Bottom panel**, labelled E-box probe was competed with a 6-fold excess of unlabeled probes for unrelated GAL4 (*lane 2*), wild-type E-box (*lane 3*), mutated E-box (*lane 4*) or wild-type OTX2 site 3 (*lane 5*). Specific DNA-protein complexes are indicated with symbols A, A1 or A2 while non-specific complexes are indicated with B. Binding reactions in the absence of competitor are on *lanes 1*.

