### Supplementary Table 2: Antibodies used

| Antibody                              | Dilution | Company Cat # and RRID                      |
|---------------------------------------|----------|--------------------------------------------|
| Mouse anti-RPE65                      | 1/200    | Abcam Cat#ab13826, RRID:AB_2181006561766   |
| Rabbit anti-BEST1                     | 1/200    | Abcam Cat#ab14928, RRID: AB_301519          |
| Mouse anti-ZO-1                       | 1/100    | Invitrogen Cat#339194, RRID: AB_2533147    |
| Rabbit anti-MERTK                     | 1/100    | Abcam Cat#ab52968, RRID: AB_2143584        |
| Mouse anti-MITF                       | 1/200    | Invitrogen Cat#MA5-14154, RRID: AB_10982126|
| Mouse anti-CRALBP                     | 1/200    | Abcam Cat#ab15051, RRID: AB_2269474        |
| Rabbit anti-Na⁺/K⁺-ATPase             | 1/100    | Cell signalling #3010, RRID: AB_2060983    |
| Mouse anti-Tryosinase                 | 1/100    | Abcam Cat#738, RRID: AB_305899             |
| Rabbit anti-Arl13B                    | 1/200    | Proteintech Cat#17711-1-AP, RRID: AB_2060867|
| Mouse anti-Pericentrin                | 1/200    | Abcam Cat#ab28144, RRID: AB_2160664        |
| Alexa Fluor 488 Goat anti-mouse       | 1/500    | Thermo Fisher Scientific, Cat#A28175, RRID AB_2536161 |
| Alexa Fluor 546 Goat anti-rabbit      | 1/500    | Molecular Probes Cat#A-11035, RRID: AB_143051|
| Alexa Fluor 488 Goat anti-rabbit      | 1/500    | Molecular Probes Cat#A-11008, RRID: AB_143165|
| Alexa Fluor 546 Goat anti-mouse       | 1/500    | Molecular Probes Cat#A-11003, RRID: AB_141370|