**Supplementary Table 3.** Distribution of forty haplotypes (COI: 14, 16S: 28) found in 392 individuals of *Dissostichus mawsoni* collected from the 20 research blocks in two CCAMLR Subareas.

|  |  |  |  |
| --- | --- | --- | --- |
| **Haplotype** | **Accession No.** | **Research Blocks** | **Total** |
| **COI** | **16S** | **58.4.1A** | **58.4.1B** | **58.4.1C** | **58.4.1D** | **58.4.1E** | **58.4.1F** | **58.4.1G** | **58.4.2A** | **58.4.2E** | **58.5.2** | **88.1I** | **88.1K** | **88.1RBH** | **88.2RB1** | **88.3RB1** | **88.3RB2** | **88.3RB3** | **88.3RB4** | **88.3RB5** | **88.3RB6** |
| ***Hap1*** | **MW684720** | **MW684734** | 6 | 9 | 11 | 2 | 8 | 15 | 8 | 8 | 2 | 9 | 20 | 16 | 16 | 15 | 15 | 12 | 15 | 18 | 10 | 20 | 235 |
| ***Hap2*** | **MW684720** | **MW684735** | 2 | 6 | 2 | 2 | 4 | 6 | 5 | 10 | 1 | 7 | 7 | 9 | 7 | 3 | 4 | 6 | 8 | 5 | 3 | 7 | 104 |
| ***Hap3*** | **MW684721** | **MW684735** |  |  | 1 |  |  |  |  |  |  | 1 |  | 1 | 1 | 1 |  |  |  | 1 |  |  | 6 |
| ***Hap4*** | **MW684720** | **MW684736** |  | 1 |  |  | 1 |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  | 3 |
| ***Hap5*** | **MW684722** | **MW684734** |  |  |  | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 |
| ***Hap6*** | **MW684720** | **MW684737** | 1 |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  | 2 |
| ***Hap7*** | **MW684720** | **MW684738** |  |  | 1 |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 |
| ***Hap8*** | **MW684720** | **MW684739** |  | 1 |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  | 2 |
| ***Hap9*** | **MW684720** | **MW684740** | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 2 |
| ***Hap10*** | **MW684720** | **MW684741** |  |  |  |  |  |  |  |  |  |  |  |  | 2 |  |  |  |  |  |  |  | 2 |
| ***Hap11*** | **MW684720** | **MW684742** |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  | 2 |
| ***Hap12*** | **MW684723** | **MW684734** |  |  |  |  |  |  |  |  | 1 | 1 |  |  |  |  |  |  |  |  |  |  | 2 |
| ***Hap13*** | **MW684724** | **MW684743** |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  | 1 |
| ***Hap14*** | **MW684720** | **MW684744** |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  | 1 |
| ***Hap15*** | **MW684720** | **MW684745** |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| ***Hap16*** | **MW684720** | **MW684746** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 1 |
| ***Hap17*** | **MW684725** | **MW684735** |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  | 1 |
| ***Hap18*** | **MW684720** | **MW684747** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 1 |
| ***Hap19*** | **MW684720** | **MW684748** |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| ***Hap20*** | **MW684720** | **MW684749** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |
| ***Hap21*** | **MW684722** | **MW684735** |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| ***Hap22*** | **MW684720** | **MW684750** |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| ***Hap23*** | **MW684720** | **MW684751** |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| ***Hap24*** | **MW684726** | **MW684752** |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| ***Hap25*** | **MW684727** | **MW684734** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  | 1 |
| ***Hap26*** | **MW684728** | **MW684734** |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| ***Hap27*** | **MW684720** | **MW684753** |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 |
| ***Hap28*** | **MW684720** | **MW684754** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  | 1 |
| ***Hap29*** | **MW684729** | **MW684734** |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| ***Hap30*** | **MW684720** | **MW684755** |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| ***Hap31*** | **MW684720** | **MW684756** |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  | 1 |
| ***Hap32*** | **MW684730** | **MW684734** |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 |
| ***Hap33*** | **MW684720** | **MW684757** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  | 1 |
| ***Hap34*** | **MW684731** | **MW684734** |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| ***Hap35*** | **MW684720** | **MW684758** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 1 |
| ***Hap36*** | **MW684732** | **MW684734** |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| ***Hap37*** | **MW684720** | **MW684759** |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| ***Hap38*** | **MW684733** | **MW684734** |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| ***Hap39*** | **MW684720** | **MW684760** |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| ***Hap40*** | **MW684720** | **MW684761** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |
| **Total** | 10 | 20 | 17 | 6 | 15 | 24 | 14 | 25 | 4 | 20 | 27 | 28 | 28 | 21 | 22 | 19 | 24 | 24 | 14 | 30 | 392 |