**Table S3.** Substitution models used according to the BIC.

|  |  |  |
| --- | --- | --- |
|  | ***Orcinus*** | **Delphinidae** |
| ***12S16S*** | HKY | GTR+G |
| ***ND1*** | HKY | HKY+G |
| ***ND2*** | HKY | HKY+G |
| ***COX1*** | HKY | HKY+I+G |
| ***COX2*** | HKY | HKY+G |
| ***ATP8*** | HKY | HKY+G |
| ***ATP6*** | HKY | HKY+G |
| ***COX3*** | HKY | HKY+G |
| ***ND3*** | HKY+G | HKY+G |
| ***ND4L*** | HKY | HKY+G |
| ***ND4*** | HKY | HKY+G |
| ***ND5*** | HKY | HKY+G |
| ***ND6*** | HKY | HKY+G |
| ***CYTB*** | HKY | HKY+G |
| ***CR*** | HKY+G | HKY+I+G |
| ***Complete mitogenome*** | HKY | HKY+G |