**Table S3.** Data sequence of the NADH dehydrogenase subunit 2 mitochondrial gene, used in the present paper, corresponding to the following species: *Dipturus argentinensis*, *Z. brevicaudata*, *Z. chilensis*, *Z. nasuta* y *D. olseni.* PN: pending Number

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Species  | Field Code | Access Number GenBank | Location | Reference |
| *Dipturus argentinensis* | GN 2397 | JQ518866 | Southwest Atlantic | Naylor et al., 2012 |
| GN 2398 | PN | outhwest Atlantic | Naylor et al., 2012 |
| *Zearaja brevicaudata* | RM 161 | PN | Argentina | Present paper |
| RM 165 | PN | Argentina | Present paper |
| RM 186 | PN | Argentina | Present paper |
| RM 194 | PN | Argentina | Present paper |
| *Dipturus lamillai*  | FA-46 | MK613966 | Malvinas/ Falkland Islands | Concha et al., 2019 |
| FA-39 | MK613967 | Malvinas/ Falkland Islands | Concha et al., 2019 |
| FA-47 | MK613968 | Malvinas/ Falkland Islands | Concha et al., 2019 |
| FA-1 | MK613969 | Malvinas/ Falkland Islands | Concha et al., 2019 |
| FA-3 | MK613970 | Malvinas/ Falkland Islands | Concha et al., 2019 |
| FA-8 | MK613971 | Malvinas/ Falkland Islands | Concha et al., 2019 |
| FA-9 | MK613972 | Malvinas/ Falkland Islands | Concha et al., 2019 |
| FA-10 | MK613973 | Malvinas/ Falkland Islands | Concha et al., 2019 |
| GN 2361 | PN | Malvinas/ Falkland Islands | Present paper |
| GN 2360 | PN | Malvinas/ Falkland Islands | Present paper |
| GN 2371 | PN | Malvinas/ Falkland Islands | Present paper |
| GN 14736 | PN | Malvinas/ Falkland Islands | Present paper |
| GN 14738 | PN | Malvinas/ Falkland Islands | Present paper |
| GN 14739 | PN | Malvinas/ Falkland Islands | Present paper |
| GN 14741 | PN | Malvinas/ Falkland Islands | Present paper |
| GN 14742 | PN | Malvinas/ Falkland Islands | Present paper |
| GN 14743 | PN | Malvinas/ Falkland Islands | Present paper |
| GN 14745 | PN | Malvinas/ Falkland Islands | Present paper |
| GN 14746 | PN | Malvinas/ Falkland Islands | Present paper |
| GN 14747 | PN | Malvinas/ Falkland Islands | Present paper |
| GN 14748 | PN | Malvinas/ Falkland Islands | Present paper |
| GN 14749 | PN | Malvinas/ Falkland Islands | Present paper |
| GN 14750 | PN | Malvinas/ Falkland Islands | Present paper |
| *Zearaja brevicaudata* (as *Zearaja chilensis*) | - | KF648508 | Mercado coreano | Jeong & Lee 2014 |
| *Zearaja chilensis* | GN 12600 | PN | Golfo de Ancud, Chile | Naylor et al., 2012 |
| GN 12612 | PN | Niebla, Los Rios, Chile | Naylor et al., 2012 |
| GN 12613 | PN | Niebla, Los Rios, Chile | Naylor et al., 2012 |
| GN 12614 | PN | Niebla, Los Rios, Chile | Naylor et al., 2012 |
| GN 12615 | PN | Niebla, Los Rios, Chile | Naylor et al., 2012 |
| GN 12616 | PN | Niebla, Los Rios, Chile | Naylor et al., 2012 |
| GN 12617 | PN | Niebla, Los Rios, Chile | Naylor et al., 2012 |
| GN 12618 | PN | Niebla, Los Rios, Chile | Naylor et al., 2012 |
| GN 12619 | PN | Niebla, Los Rios, Chile | Naylor et al., 2012 |
| GN 12620 | PN | Niebla, Los Rios, Chile | Naylor et al., 2012 |
| GN 12621 | PN | Niebla, Los Rios, Chile | Naylor et al., 2012 |
| GN 12622 | PN | Niebla, Los Rios, Chile | Naylor et al., 2012 |
| GN 12623 | PN | Niebla, Los Rios, Chile | Naylor et al., 2012 |
| GN 12624 | PN | Niebla, Los Rios, Chile | Naylor et al., 2012 |
| GN 12625 | PN | Niebla, Los Rios, Chile | Naylor et al., 2012 |
| GN 12626 | PN | Niebla, Los Rios, Chile | Naylor et al., 2012 |
| GN 12627 | PN | Niebla, Los Rios, Chile | Naylor et al., 2012 |
| GN 12628 | PN | Niebla, Los Rios, Chile | Naylor et al., 2012 |
| GN 12629 | PN | Niebla, Los Rios, Chile | Naylor et al., 2012 |
| GN 12630 | PN | Niebla, Los Rios, Chile | Naylor et al., 2012 |
| GN 12631 | PN | Niebla, Los Rios, Chile | Naylor et al., 2012 |
| GN 12632 | PN | Niebla, Los Rios, Chile | Naylor et al., 2012 |
| GN 6415 | PN | Océano Pacífico, Chile | Naylor et al., 2012 |
| GN 6416 | JQ518904 | Océano Pacífico, Chile | Naylor et al., 2012 |
| GN 6424 | PN | Océano Pacífico, Chile | Naylor et al., 2012 |
| GN 6425 | PN | Océano Pacífico, Chile | Naylor et al., 2012 |
| GN 6426 | PN | Océano Pacífico, Chile | Naylor et al., 2012 |
| GN 6427 | PN | Océano Pacífico, Chile | Naylor et al., 2012 |
| GN 6428 | PN | Océano Pacífico, Chile | Naylor et al., 2012 |
| GN 6429 | PN | Océano Pacífico, Chile | Naylor et al., 2012 |
| *Zearaja nasuta* | GN 5635 | PN | Chatam Rise, Océano Pacífico, Nueva Zelanda | Naylor et al., 2012 |
| GN 5636 | PN | Chatam Rise, Océano Pacífico, Nueva Zelanda | Naylor et al., 2012 |
| GN 2692 | PN | Océano Pacífico, Nueva Zelanda | Naylor et al., 2012 |
| GN 2699 | PN | Océano Pacífico, Nueva Zelanda | Naylor et al., 2012 |
| GN 2708 | JQ518903 | Océano Pacífico, Nueva Zelanda | Naylor et al., 2012 |
| *Dipturus olseni* | GN20387 | PN | USA | Florida Program for Shark Research |
| GN20388 | PN | USA | Florida Program for Shark Research |
| GN20389 | PN | USA | Florida Program for Shark Research |