**Suppl. Table 1.** Protocol for PCR reaction mix concentrations.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Reaction Mix** | **Primer Forward/Reverse** | **Vol (µl)** | **DNA (ng)** | **MgCl2 (mM)** | **Primer (µM)** | **dNTP (mM)** | **Taq Pol\* (U/µl)** |
| 5S rDNA | 5’- TACGCCCGATCTCGTCCGATC-3′  5′-CAGGCTGGTATGGCCGTAAGC-3′  (Pendás et al., 1994) | 25 | 100 | 1,5 | 0,2 | 0,16 | 1 |
| U2 *snRNA* | 5’- ATCGCTTCTCGGCCTTATG -3’  3’- TCCCGGCGGTACTGCAATA -5’  (Bueno et al., 2013) | 25 | 100 | 1,5 | 0,04 | 0,8 | 1 |
| H1 | 5’-ATGGCAGAARYCGCMCCAGC-3’  5’-TACTTCTTCTTGGGSGCTGC-3’  (Ziemniczak, unpublished data) | 25 | 100 | 1,5 | 0,2 | 0,16 | 1 |
| H3 | 5’-ATGGCTCGTACCAAGCAGACVGC-3’  5’-ATATCCTTRGGCATRATRGTGAC-3’  (Colgan et al., 1998) | 25 | 100 | 1,5 | 0,2 | 0,16 | 1 |
| H4 | 5’-TSCGIGAYAACATYCAGGGIATCAC-3’  5’-CKYTTIAGIGCRTAIACCACRTCCAT-3’  (Pineau et al., 2005) | 25 | 100 | 1,5 | 0,2 | 0,16 | 1 |

**References:**

Bueno D, Palacios-Gimenez OM, Cabral-de-Mello DC: Chromosomal mapping of repetitive DNAs in the grasshopper *Abracris flavolineata* reveal possible ancestry of the B chromosome and H3 histone spreading. PLoS One 8:e66532 (2013).

Colgan D, McLauchlan A, Wilson G, Livingston S, Edgecombe GD, et al: Histone H3 and U2 snRNA DNA sequences and arthropod molecular evolution. Aust J Zool 46:419–437 (1998).

Pendás AM, Moran P, Freije JP, Garcia-Vazquez E: Chromosomal mapping and nucleotide sequence of two tandem repeats of Atlantic salmon 5S rDNA. Cytogenet Cell Genet 67:31–36 (1994).

Pineau P, Henry M, Suspène R, Marchio A, Dettai A, et al: A universal primer set for PCR amplification of nuclear histone H4 genes from all animal species. Mol Biol Evol 22:582–588 (2005).