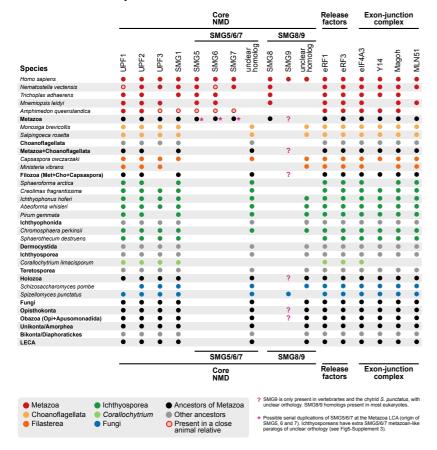
Figure 5-Supplement 2

A. NMD machinery

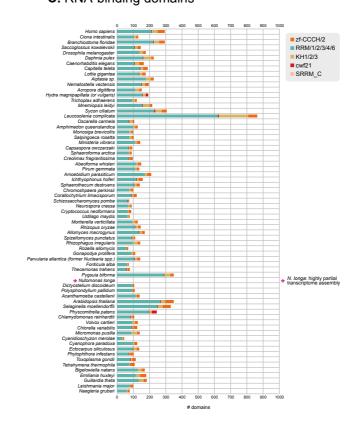


B. SR splicing factors

SRSF4-5-6 (SRP2) 2nd RRM_1 domain SRSF4-5-6 (SRP2) 1st RRM_1 domain SRSF2-8 (SRP1) SRSF1-9 (ASF) Species Homo sapiens Nematostella vectensis Trichoplax adhaerens Mnemiopsis leidyi Amphimedon queenslan Monosiga brevicollis Metazoa+Choanoflagellata Capsaspora owczarzaki Ministeria vibrans Filozoa (Met+Cho+Capsaspora) Sphaeroforma arctica Spinaeroroma arcica Creolimax fragrantissima Ichthyophonus hoferi Abeoforma whisleri Pirum gemmata Ichthyophonida Chromosphaera perkinsii Sphaerothecum destruens Dermocystida Dermocystida Ichthyosporea Corallochytrium limacisporum Teretosporea Holozoa Schizosaccharomyces pombe Rhizophagus irregularis Fungi Opisthokonta Obazoa (Opi+Apusomonadida) Unikonta/Amorphea Bikonta/Diaphoratickes ? Present in A. thaliana to Plass et al. 2008

* SRSF1-9 is absent in Fungi but present in Parvularia atlantica (Nuclearid, Holomycota)

C. RNA-binding domains



^{**} Ancestral eukaryotic SRSF4-5-6 had one RRM_1 domain, which duplicated internally at the Opisthokonta LCA