



**Fig. S1.** Phylogenetic tree of brevinin-1SY with members of the brevinin-1 family. Brevinin-1SY amino acid sequence (P82871) was aligned with similar sequences from other species: *Rana catesbeiana* (ranatuerin-4, P82819), *Rana chiricahuensis* (brevinin-1ChB, ABK91541), *Rana berlandieri* (brevinin-1Ba, P82833), *Rana pipiens* (brevinin-1Pa, P82841), *Rana sphenocephala* (brevinin-1Sa, P82904), *Odorrana jingdongensis* (brevinin-1JDa, B3A0M4), *Rana boylii* (brevinin-1BYa, P84111), *Pelophylax porosusbrevipodus* (brevinin-1, P32423), *Rana luteiventris* (brevinin-1La, P82825), *Pelophylax saharicus* (brevinin-1E, P84839), *Pelophylax ridibundus* (brevinin-1E, P86149), *Rana sevosa* (brevinin-1SE, P85056), *Rana dybowskii* (brevinin-1DYa, P0C5W6), *Pelophylax esculentus* (brevinin-1Ea, P40835), *Pelophylax ridibundus* (brevinin-1R, P86027) and *Hylarana picturata* (brevinin-1PTa, P0C8T1), and used to generate a phylogenetic tree using the neighbour-joining method, bootstrapped 10,000 times.