**Table SII**. Sequence of SCaMC-1 and SCaMC-1L non-annotated proteins used in this study (alphabetical order of species)

|  |  |
| --- | --- |
| **Species** | **Proteins1** |
| *Erinaceus europaeus* (hedgehog) | **>SCaMC-1Like** (partial sequence)AILKAADTNADNKLDFEEFMKYLQEHEKKMKLAFKSLDRNSDGVIEVSEVIAAFKSLGVNISKAQAKEILQSISIDETLTIDWDEWKYYFLLRPAKDINEIVRFWKRTSVVDIGESLAIPDEFTEEEKHSGDWWRRLVAGGIAGAVARTCTAPFDRWKVMMQFHSLQSRRMRLISEFELMIKEGGIRSLWRGNSVNALKIAPETALKFGAYEQYKKWLSFDGAKIGIVERFISGSLAGATSQTCVYPLEVLKTRLAISTTGQYTGAIDCAKKILKQEGVRVFFKGYVPNLLGIIPYAGIDLAVYELLKNYWLEHHAEDSLNPGIMILLAFSTFSHTCGQVVSFPLNLIRTHMQAKALEESPPSMIDFIQDVYNKEGARGFFRGLTPNIIKVLPAVIISCVTFEKVKNYLGFI |
| *Echinops telfairi* (lesser hedgehog tenrec) | **>SCaMC-1** MLRWLGTLVLPMAACQDEQQPTRYQSLFQQLDRNRDGVVDIGELQQGLRSLGVPLGQDAEEKIFNTGDVNKDGMLDFEEFTKYLKDHEKKMKLAFKSLDKNNDGNIDASEIVQSLQTLGVTISEKQAELILQSIDADGTMTVDWNEWRDYFLFNPANDIEEIIRFWKHSTGIDIGDSLAIPDEFTEDEKLSGQWWRQLLAGGVAGAVSRTSTAPLDRLKIMMQVLGSKSDKMNLVGGFRQMVKEGGIRSLWRGNGTNVIKIAPETAVKFWAYEQYKKLLTEEGHKVGTLERFLSGSLAGATAQTFIYPMEVFKTRLAVAKTGQYSGIFDCAKKILKHEGMGALYKGYIPNLLGIISYAGIDLAVYELLKSYWLEHFAEDTVNPGVVVLLGCGALSSTCGQLASYPLALVRTRMQAQAMVDGAPQLNMVGLFRRIISKEGARGLYRGITPNFMKVLPAVGISYVVYEKMKQTLGVAKK**>SCaMC-1Like** (partial sequence)AFFKAADVNKDSQLDFEEFVHYLQEHEKNMKLAFKSLDKNNDGVIETSEVLDVLKSLGIDASEDQAKKILQSIDLDGNLTVDWYEWRNYFLFNPATDIDDIIRFWKRSTVIDIGESVTIPDDFSEEEKRSGDWWRRLMAAGMAGAVSRTCTAPFDRLKVMMQVHGSQPGKMRLMGGLKQMVKEGGMISLWRGNGVNVLKIAPETALKCSAYEQFKKWLSFDGAKVGNPERFISGSLAGVTAQTCIYPLEVLKTRLAVGQTGQYSGVIDCGKKLLKQEGVKALFKGYFPNVLGIIPYAGIDFAVFELLKNYWLENHAKNSVNPGIMILLGCCTLSSTCGQLASFPLHLLRTRLQAQAHVNGGSITSMIHLIQEIYHKEGKRGFFRGLTPNIIKVLPAVGISCLVYENVKPFVGL |
| *Microcebus murinus* (grey mouse lemur) | **>SCaMC-1Like** (partial sequence)VIFRAGDTNADSKLDFGEFLRYLQDHEKKMRLAFNSLDTNKNGVIEVSEILAALKSMGMNISEEQAVEIIKSMDTDGTMTIDWDEWKYYFLLHPATNITEIIHFWKHSAVIDIGESISIPDDFTEHEKQSGDWWKRLVAAGIASAIARTCTAPFERLRVMLQVHSLKTRKMRLTSVVEQMIKEGGIFSLWRGNGVNIFKIAPETALKVGAYEQYKKWLSFDGTHVGIPERFISGSLAGVTAQTCIYPMEVLKTRLAVGNTGEYSGIIDCSRKLFKQEGVRAFFRGYVPNFLGIIPYAGIDLAVYELLKNYWLEHYSKNSVNPGIMILLGCSTLSHTCGQLASFPLNLLRTRMQAKAPMEEGKTVSMIRLIQEIYSKEGKRGFFRGITPNVIKLLPAVGISCVAYEKVKLLMGLT |
| *Myotis lucifugus* (Microbat) | **>SCaMC-1**MLRWLRGWVLPAAACQDAGPPPPRYETLFRQLDRNGDGVVDIGELQEGLRSLGIPLGQDAEEKIFSTGDIDKDGKLNFEEFMKYLKDHEKKMKLAFKSLDRNNDGKIEASEIVHSLQILGLTISEKQAELILKSIDSDGTMTVDWDEWRDYFLLNPVTDIEEIVRFWKHSTGIDIGDSLTVPDEFTEDEKMSGQWWRQLLAGGIAGAVSRTSTAPLDRLKVMMQVHGSKSDKMDIYGGLRQMVKEGGIRSLWRGNGTNVLKIAPETALKFSAYEQYKKMLTWEGQKLGTFERFVSGSMAGATAQTFIYPMEVLKTRLAVGRTGQYSGLFDCAKKILKHEGMGAFFKGYIPNILGIIPYAGIDLAVYELLKSHWLDHFAKDTVNPGVAVLLGCGALSSTCGQLASYPLSLVRTRMQAQAMIEGSPQLNMVGLFRRIISKEGVPGLYRGITPNFMKVLPAVGISYVVYENMKQTLGVIQK **>SCaMC-1Like** (partial sequence)DIFKAGDTNADSGLDFQEFLQYLKDHEKKMRLAFKSLDLNNDGVIETSEIITALKSLGVDISEAQAKNILQSMDSDGSMTVDWDEWKYYFLLHPAKSIDEIAGFWKRSTIIDIGESIAIPDDFTVEEKSSGHWWRHMVVGGIASAISRTCTAPFDRLRVMMQVHSLEPTRMKLIGGFEQMIKEGGIRSLWRGNSANVLKIAPEMVIKFGAYEQYKKWLSFDGAKTGIIQRFVSGSLAGVTAQTCIYPMEVIKTRLTVGRTGQYSGIIDCGKKLLKQEGVRTFFKGYVPNLLSIIPYAGTDLTVFELLKNYWLEHYAGSSVDPGLMILLGCSTLSHTSGQIASFPLTLLRTRMQAQAQKEKTTTMIHLIQDIYYKEGKMGFFRGLTPNIIKVLPAIFISCVAYEILKRPFGLT |
| *Ornithorhynchus anatinus* (duck-billed platypus) | **>SCaMC-1** (Partial sequence assembled from UCSC Contig4142 and Contig243411)KIFKAGDTNQDGQLDFEEFTKYLKDHEKKMKLAFKSLDKNNDGKIDASEVVQSLKILGIDISEQQAEKILQSMDADGTMSVDWNEWRDHFLFNPAANLEEIVRFWKHSTVFDIGESLAVPDEFTEEEKTTGQWWRQLLAGGVAGAVSRTGTAPLDRLKVMMQVHGSKSNQINIVSGFKQMVKEGGIRSLWRGNGVNVLKIAPETAVKFWAYEQYKKLLTKDGAKVGTVERFVSGSLAGATAQTFIYPME |