

Elapid_Venom_PLA2_59 1 ?????????????????GAASVRPLPLNLLQFNMIQCTIPTSIPWLDYSNYGCYCGYGG
Elapid_Venom_PLA2_60 1 ?????????????????RPLPLNLLQFNMIQCTIPTSIPWLDYSNYGCYCGYGG
Elapid_Venom_PLA2_61 1 ?????????????????PLNLLQFNMIQCTIPTSIPWLDYSNYGCYCGYGG
Elapid_Venom_PLA2_62 1 ?????????????????PLNLLQFNMIQCTIPTSIPWLDYSNYGCYCGYGG
Elapid_Venom_PLA2_63 1 ?????????????????PLNLLQFNMIQCTIPTSIPWLDYSNYGCYCGYGG
Elapid_Venom_PLA2_64 1 ?????????????????PLNLLQFNMIQCTIPTSIPWLDYSNYGCYCGYGG
Elapid_Venom_PLA2_65 1 ?NPAQLLVLAAVCVSPLGAASIRPMPLNLLQFNMIQCTIPTSIPWLDYSNYGCYCGYGG
Elapid_Venom_PLA2_66 1 MNPAQLLVLAAVCVSPLGAASIRPMPLNLLQFNMIQCTIPTSIPWLDYSNYGCYCGYGG
Elapid_Venom_PLA2_67 1 ?NPAQLLVLAAVCVSPLGAASIRPMPLNLLQFNMIQCTIPTSIPWLDYSNYGCYCGYGG
Elapid_Venom_PLA2_68 1 ?NPAQLLVLAAVCVSLLGASSIRPMPLNLYQFKNMIKCTVPSRS-WWDFADYGCFCGYGG
Elapid_Venom_PLA2_69 1 ?NPAQLLVLAAVCVSLLGASSIRPMPLNRYQFKNMIKCTVPSRS-WWDFADYGCFCGYGG
Elapid_Venom_PLA2_70 1 ?????????????GASSTRPMPLNLYQFKNMIKCTVPSRS-WWDFADYGCFCGYGG
Elapid_Venom_PLA2_71 1 ?NPAQLLVLAAVCVSLLGASSIRPMPLNLYQFKNMIKCTVPSRS-WWDFADYGCFCGYGG
Elapid_Venom_PLA2_72 1 ?NTAKLLLVLAAVCVSLLGASSIRPMPLNLYQFKNMIKCTVPSRS-WWDFADYGCFCGYGG
Elapid_Venom_PLA2_73 1 MNPAQLLVLAAVCVSLLGASSIRPMPLNLYQFKNMIKCTVPSRS-WWDFADYGCFCGYGG
Elapid_Venom_PLA2_74 1 MNPAQLLVLAAVCVSLLGASSIRPMSLNLYQFKNMIKCTVPSRS-WWDFADYGCFCGYGG
Elapid_Venom_PLA2_75 1 ?NPAQLLVLAAVCVSLFGASSIRPMPLNLYQFKNMIKCTVPSRS-WWDFADYGCFCGYGG
Elapid_Venom_PLA2_76 1 ?NPAQLLVLTAVCVSLLGASSIRPMPLNLYQFKNMIKCTVPSRS-WWDFADYGCFCGYGG
Elapid_Venom_PLA2_77 1 ?NPAQLLVLAAVCVSLLGASSIRPTPLNLYQFKNMIKCTVPSRS-WWDFADYGCFCGYGG
Elapid_Venom_PLA2_78 1 MNPAQLLVLAAVCVSLLGASSVRPMPLNLYQFKNMIKCTVPSRS-WWDFADYGCFCGYGG
Elapid_Venom_PLA2_79 1 MNPAQLLVLAAVCVSLLGASSIRPMPLNLYQFKNMIKCTVPSRS-WWDFADYGCFCGYGG
Elapid_Venom_PLA2_80 1 ?????????VCVSLGASSIRPMPLNLYQFKNMIKCTVPSRS-WWDSADYGCFCGYGG
Elapid_Venom_PLA2_81 1 ?????????GASSIRPMPLNLYQFKNMIKCTVPSRS-WWDFADYGCFCGYGG
Elapid_Venom_PLA2_82 1 MNPAQLLVLAAVCVSLLGASSIRPMPLNLYQFKNMIKCTVPSRS-WWDFADYGCFCGYGG
Elapid_Venom_PLA2_83 1 ?NPAQLLVLAAVCVSLLGASSIRPMPLNLYQFKNMIKCTVPSRS-WWDFADYGCFCGYGG
Elapid_Venom_PLA2_84 1 ?NPAQLLVLAAVCVPLLGASSIRPMPLNLYQFKNMIKCTVPSRS-WWDFADYGCFCGYGG
Elapid_Venom_PLA2_85 1 ?NPAQLLVLAAVCVSLLGASSIRPMPLNLYQFKNMIKCTVPSRS-WWDFADYGCFCGYGG
Elapid_Venom_PLA2_86 1 ?????????CVSLLGASSIRPMPLNLYQFKDMIKCTVPSRS-WWDFADYGCFCGYGG
Elapid_Venom_PLA2_87 1 ?????????GASSIRPMPLNLYQFKNMIKCTVPSRS-WWDFADYGCFCGYGG
Elapid_Venom_PLA2_88 1 ?????????RS-WWDFADYSCFCGYGG
Elapid_Venom_PLA2_89 1 MNPAQLLVLAAVCVSLLGASSIRPMPLNLYQFKNMIKCTVPSRS-WWDFADYGCFCGYGG
Elapid_Venom_PLA2_90 1 ?NPAQLLVLAAVCVSLLGASSIRPMPLNLYQFKNMIKCTVPSRS-WWDFADYGCFCGYGG

Elapid_Venom_PLA2_67	60	SGTPVDDLDRCCQTHDNCYSEAEKLPSCTAYIKTYSYECSEGLTTCGGGNDECAAFVCNC
Elapid_Venom_PLA2_68	59	SGTPVDDLDRCCQTHDNCYSEAEKLPSCTPYIKTYSYECSEGLTTCGGGNDECAAFVCNC
Elapid_Venom_PLA2_69	59	SGTPVDDLDRCCQTHDNCYSEAEKLPSCTPYIKTYSYECSEGLTTCGGGNDECAAFVCNC
Elapid_Venom_PLA2_70	43	SGTPVDDLDRCCQTHDNCYSEAEKLPSCTPYIKTYSYECSEGLTTCGGGNDECAAFVCNC
Elapid_Venom_PLA2_71	59	SGTPVDDLDRCCQTHDNCYSEAEKLPSCTPHIKTYSYECSEGLTTCGGGNDECAAFVCNC
Elapid_Venom_PLA2_72	59	SGTPVDDLDRCCQTHDNCYSGAEKLPSCTPYIKTYSYECSEGLTTCGGGNDECAAFVCNC
Elapid_Venom_PLA2_73	60	SGTPVDDLDRCCQTHDNCYSGAEKLPSCTPYIKTYSYECSEGLTTCGGGNDECAAFVCNC
Elapid_Venom_PLA2_74	60	SGTPVDDLDRCCQTHDNCYSEAEKLPSCTPYIKTYSYECSEGLTTCGGGNDECAAFVCNC
Elapid_Venom_PLA2_75	59	SGTPVDDLDRCCQTHDNCYSEAEKLPSCTPYVKTYSYECSEGLTTCGGGNDECAAFVCNC
Elapid_Venom_PLA2_76	59	SGTPVDDLDRCCQTHDNCYSEAEKLPSCTPYIKTYSYECSEGLTTCGGGNDECAAFVCNC
Elapid_Venom_PLA2_77	59	SGTPVDDLDRCCQTHDNCYSEAEKLPSCTPYIKTYSYECSEGLTTCGGGNDECAAFVCNC
Elapid_Venom_PLA2_78	60	SGTPVDDLDRCCQTHDNCYSEAEKLPSCTPYIKTYSYECSEGLTTCGGGNDECAAFVCNC
Elapid_Venom_PLA2_79	60	SGTPVDDLDRCCQTHDNCYSEAEKLPSCTPYIKTYSYECSEGLTTCGGGNDECAAFVCNC
Elapid_Venom_PLA2_80	49	SGTPVDDLDRCCQTHDNCYSEAEKLPSCTPYIKTYSYECSEGLTTCGGGNDECAAFVCNC
Elapid_Venom_PLA2_81	43	SGTPVDDLDRCCQTHDNCYSEAEKLPSCTPYIKTYSYECSEGLTTCGGGNDECAAFVCNC
Elapid_Venom_PLA2_82	60	SGTPVDDLDRCCQTHDNCYSEAEKLPSCTPYIKTYSYECSEGLTTCGGGNDECAAFVCNC
Elapid_Venom_PLA2_83	59	SGTPVDDLDRCCQTHDNCYSEAEKLPSCTPYIKTYSYECSEGLTTCGGGNDECAAFVCNC
Elapid_Venom_PLA2_84	59	SGTPVDDLDRCCQTHDNCYSEAEKLPSCTPYIKTYSYECSEGLTTCGGGNDECAAFVCNC
Elapid_Venom_PLA2_85	59	SGTPVDDLDRCCQTHDNCYSEAEKLPSCTPYIKTYSYECSEGLTTCGGGNDECAAFVCNC
Elapid_Venom_PLA2_86	48	SGTPVDDLDRCCQTHDNCYSEAEKLPSCTPYIKTYSYECSEGLTTCGGGNDECAAFVCNC
Elapid_Venom_PLA2_87	43	SGTPVDDLDRCCQTHDNCYSEAEKLPSCTPYIKTYSYECSEGLTTCGGGNDECAAFVCNC
Elapid_Venom_PLA2_88	18	SGTPVDDLDRCCQTHDNCYSEAEKLPSCTPYIKTYSYECSEGLTTCGGGNDECAAFVCNC
Elapid_Venom_PLA2_89	60	SGTPVDDLDRCCQTHDNCYSEAEKLPSCTPYIKTYSYECSEGLTTCGGGNDECAAFVCNC
Elapid_Venom_PLA2_90	59	SGTPVDDLDRCCQTHDNCYSVAEKLPSCTPYIKTYSYECSEGLTTCGGGNDECAAFVCNC

Elapid_Venom_PLA2_01	120	DREAAICFAGAPYIKANKKIDTKERCQ*
Elapid_Venom_PLA2_02	120	DREAAICFAGAPYIKANKKIDTKERCQ?
Elapid_Venom_PLA2_03	120	DREAAICFAGAPYIKANKKIDTKERCQ*
Elapid_Venom_PLA2_04	120	DREAAICFAGAPYIKANKKIDTKERCQ*
Elapid_Venom_PLA2_05	120	DREAAICFAGAPYIKANKKIDAKERCQ*
Elapid_Venom_PLA2_06	120	DREAAICFAGAPYI[RANKKIDTKERCQ*
Elapid_Venom_PLA2_07	120	DREAAICFAGAPYIKANKKIDTKERCQ*
Elapid_Venom_PLA2_08	120	DREAAICFAGAPYIKANKKIDTKERCQ*
Elapid_Venom_PLA2_09	120	DREAAICFAGAPYIKANKKIDT[RERCQ*
Elapid_Venom_PLA2_10	120	DREAAICFAGAPYIKANKKIDTKERCQ?
Elapid_Venom_PLA2_11	120	DREAAICFAGAPYIKANKKIDTKERCQ*
Elapid_Venom_PLA2_12	120	DREAAICFAGAPYIKANKKIDTKERCQ*
Elapid_Venom_PLA2_13	121	DREAAICFAGAPYIKANKKIDTKERCQ*
Elapid_Venom_PLA2_14	120	DREAAICFAGAPYIKANKKIDTKERCQ*
Elapid_Venom_PLA2_15	120	DREAAICFAGAPYIKANKKIDTKERCQ*
Elapid_Venom_PLA2_16	120	DREAAICFAGAPYIKANKKIDTKERCQ*
Elapid_Venom_PLA2_17	121	DREAAICFAGAPYIKANKKIDTKERCQ*
Elapid_Venom_PLA2_18	120	DREAAICFAGAPYIKANKKIDTKERCQ*
Elapid_Venom_PLA2_19	120	DREAAICFAGAPYIKANKKIDTKERCQ*
Elapid_Venom_PLA2_20	120	DREAAICFAGAPYIKANKKIDTKERCQ*
Elapid_Venom_PLA2_21	120	DREAAIC[SAGAPYIKANKKIDTKERCQ*
Elapid_Venom_PLA2_22	120	DREAAICFAGAPYIKANKKIDTKERCQ*
Elapid_Venom_PLA2_23	120	DREAAICFAGAPYIKANKKIDTKERCQ*
Elapid_Venom_PLA2_24	120	DREAAICFAGAPYIKANKKIDT[RERCQ*
Elapid_Venom_PLA2_25	120	DREAAICFAGAPYIKANKKIDT[RERCQ*
Elapid_Venom_PLA2_26	120	DREAAIC[YAGAPYIKANKKIDTKERCQ*
Elapid_Venom_PLA2_27	120	DREAAICFAGAPYIKANKKIDTKERCQ?
Elapid_Venom_PLA2_28	121	DREAAICFAGAPYIKANKKIDTKERCQ*
Elapid_Venom_PLA2_29	121	DREA[TICFAGAPYIKANKKIDTKERCQ*
Elapid_Venom_PLA2_30	104	????????????????????????????????
Elapid_Venom_PLA2_31	96	DREAAICFAGAPYIKANKKIDTKERCQ*
Elapid_Venom_PLA2_32	120	DREAAICFAGAPYIKANKKIDTKERCQ*
Elapid_Venom_PLA2_33	120	DREAAICFAGAPYIKANKKIDTKERCQ*
Elapid_Venom_PLA2_34	104	DREAAICFAGAPYIKANKKIDTKERCQ*
Elapid_Venom_PLA2_35	121	DREAAICFAGAPY[?????????????????
Elapid_Venom_PLA2_36	120	D[HEAAICFAGAPY[?????????????????
Elapid_Venom_PLA2_37	111	DREAAICFAGAPYIKANKKIDTKERCQ*
Elapid_Venom_PLA2_38	104	D[CEAAICFAGAPY[?????????????????
Elapid_Venom_PLA2_39	104	DREAAICFAGAPY[?????????????????
Elapid_Venom_PLA2_40	104	DREAAICFAGAPYIKANKKIDTKERCQ*
Elapid_Venom_PLA2_41	104	DREAAICFAGAPYIKANKKIDTKERCQ*
Elapid_Venom_PLA2_42	104	DREAAICFAGAPYIKANKKIDTKERCQ*
Elapid_Venom_PLA2_43	104	DREAAICFAGAPYIKANKKIDTKERCQ*
Elapid_Venom_PLA2_44	104	DREAAICFAGAPYIKANKKIDTKERCQ*
Elapid_Venom_PLA2_45	104	DR[GAAICFAGAPYIKANKKIDTKERCQ*
Elapid_Venom_PLA2_46	104	DREAAICFAGAPY[VANKKIDTKERCQ*
Elapid_Venom_PLA2_47	104	DREAAICFAGAPYIKANKKIDTKERCQ*
Elapid_Venom_PLA2_48	104	DREAAICFAGAPYIKANKKIDTKERCQ*
Elapid_Venom_PLA2_49	104	DREAAICFAGAPY[AANKKIDTKERCQ?
Elapid_Venom_PLA2_50	104	DREAAICFAGAPY[VANKKIDTKERCQ?
Elapid_Venom_PLA2_51	104	DREAAICFAGAPYIKAN[RKIDTKERCQ?
Elapid_Venom_PLA2_52	104	DREAAICFAGAPYIKANKKIDTKERCQ*
Elapid_Venom_PLA2_53	104	DREAAICFAGAPYIKANKKIDTKERCQ*
Elapid_Venom_PLA2_54	104	DREAAICFAGAPYIKANKKIDTKERCQ?
Elapid_Venom_PLA2_55	104	DREAAIC[LAGAPYIKANKKIDTKERCQ?
Elapid_Venom_PLA2_56	104	DREAAICFAGAPYIKANKKIDTKERCQ?
Elapid_Venom_PLA2_57	104	DREAAICFAGAPYIKANKKIDT[EERRQ?
Elapid_Venom_PLA2_58	104	DREAAICFAGAPYIKANKKIDTKERCQ?
Elapid_Venom_PLA2_59	104	DREAAIC[LAGAPYIKANKKIDTKERCQ?
Elapid_Venom_PLA2_60	99	DREAAICFAGAPYIKANKKIDTKERCQ?
Elapid_Venom_PLA2_61	96	DREAAICFAGAPYIKANKKIDTKERCQ?
Elapid_Venom_PLA2_62	96	DREAAICFAGAPYIKANKKIDTKERCQ?
Elapid_Venom_PLA2_63	96	DREAAICFAGAPYIKANKKIDTKERCQ*
Elapid_Venom_PLA2_64	96	DREA[TICFAGAPYIKANKKIDTKERCQ*
Elapid_Venom_PLA2_65	120	DR[VAAICFAGAPYINDNYNVNLKERCQ*
Elapid_Venom_PLA2_66	121	DREAAICFAGAPYINDNYNVNLKERCQ*

Elapid_Venom_PLA2_67	120	DRVAAICFAGAPYINDNCNVNLKERCQ*
Elapid_Venom_PLA2_68	119	DRVAAICFAGAPYINDNCNVNLKERCQ*
Elapid_Venom_PLA2_69	119	DRVAAICFAGAPYINDNCNVNLKERCQ*
Elapid_Venom_PLA2_70	103	DRVAAICFAGAPYINDDYNVNLKERCQ*
Elapid_Venom_PLA2_71	119	DRVAAICFAGAPYINDNYNVNLKERCQ*
Elapid_Venom_PLA2_72	119	DRVAAICFAGAPYINDNYNVNLKERCQ*
Elapid_Venom_PLA2_73	120	DRVAAICFAGAPYINDNYNVNLKERCQ*
Elapid_Venom_PLA2_74	100	????????????????????????????????
Elapid_Venom_PLA2_75	119	DRVAAICFAGAPYINDNYNVNLKERCQ?
Elapid_Venom_PLA2_76	119	DRVAAICFAGAPYINDNYNVNLKERCQ*
Elapid_Venom_PLA2_77	119	DRVAAICFAGAPYINDNYNVNLKERCQ*
Elapid_Venom_PLA2_78	120	DRVAAICFAGAPYINDSYNVNLKERCQ*
Elapid_Venom_PLA2_79	120	DRVAAICFAGAPYINDNYNVNLKERCQ*
Elapid_Venom_PLA2_80	109	DRVAAICFAGAPYINDNYNVNLKERCQ*
Elapid_Venom_PLA2_81	103	DRVAAICFAGAPYINDNYNVNLKERCQ*
Elapid_Venom_PLA2_82	120	DRVAAICFAGAPYINDNYNVNLKERCQ*
Elapid_Venom_PLA2_83	119	DRVAAICFAGAPYINDNYNVNLKERCQ*
Elapid_Venom_PLA2_84	119	DRVAAICFAGAPYINDNYNVNLKERCQ*
Elapid_Venom_PLA2_85	119	DRVAAICFAGAPYINDN???????????
Elapid_Venom_PLA2_86	108	DRVAAICFAGAPYINDNYNVNLKERCQ*
Elapid_Venom_PLA2_87	103	DRVAAICFAGAPY?????????????????
Elapid_Venom_PLA2_88	78	DRVAAICFAGAPYINDNYNVNLKERCQ*
Elapid_Venom_PLA2_89	120	DRVAAICFAGAPYINNYNVNLKERCQ?
Elapid_Venom_PLA2_90	119	DRVAAICFAGAPYINNYNVNLKERCQ?

(B) Kunitz-type serine protease inhibitors

```

Elapid_Venom_KSPI_01 1 SGHLLLLLGLLTLWAELTPVSGLGGPPEYCLLPADPGPCSNRYRYVYYNPALRKCEQFLYG
Elapid_Venom_KSPI_02 1 SGHLLLLLGLLTLWAELTPVSGLGGPPEYCLLPADPGPCSNRYRYVYYNPALRKCEQFLYG
Elapid_Venom_KSPI_03 1 SGHLLLLLGLLTLWAELTPVSGR--PGLCELPAASGLCNANIPAFYYNLAAKQCQKFIYG
Elapid_Venom_KSPI_04 1 SGHLLLLLGLLTLWAELTPVSGR--PGLCELPAASGLCNANIPAFHYNLAAKQCQKFIYG
Elapid_Venom_KSPI_05 1 SGHLLLQLGLLTLWAELTPVSGR--PGLCELPAASGLCNANIPAFYYNLAAKQCQKFIYG
Elapid_Venom_KSPI_06 1 SGHLLLLLGLLTLWAELTPVSGR--PGLCELPAASGLCNTNIPAFYYNLAAKQCQKFIYG
Elapid_Venom_KSPI_07 1 SGHLLLLLGLLTLWAELTPVSGR--PGLCELPAASGLCNTNIPAFYYNLAAKQCQKFIYG
Elapid_Venom_KSPI_08 1 SGHLLLLLGLLTLWAELTPVSGR--PGLCELPAASGLCNANIPAFYYNLAAKQCQKFIYG
Elapid_Venom_KSPI_09 1 SGHLLLLLGLLTLWAELTPASGR--PGLCELPAASGLCNANIPAFYYNLAAKQCQKFIYG
Elapid_Venom_KSPI_10 1 SGHLLLLLGLLTLWAELTPVSGR--PGLCELPAASGLCNANIPAFYYNLAAKQCQKFIYG
Elapid_Venom_KSPI_11 1 SGHLLLLLGLLTLWAELTPVSGR--PGLCELPAASGLCNANIPAFYYNLAAKQCQKFIYG
Elapid_Venom_KSPI_12 1 SGHLLLPLGLLTLWAELTPVSGR--PGLCELPAASGLCNANIPAFYYNLAAKQCQKFIYG
Elapid_Venom_KSPI_13 1 PGHLLLLLGLLTLWAELTPVSGR--PGLCELPAASGLCNANIPAFYYNLAAKQCQKFIYG
Elapid_Venom_KSPI_14 1 SGHLLLLLGLLTLWAELTPVSSR--PGLCELPAASGLCNANIPAFYYNLAAKQCQKFIYG
Elapid_Venom_KSPI_15 1 SGHLLLLLGLLTLWAELTPVSGR--PGLCELPAASGLCNANIPAFYYNLAAKQCQKFIYG
Elapid_Venom_KSPI_16 1 ??????????????????TPVSGR--PGLCELPAASGLCNANIPAFYYNLAAKQCQKFIYG

```

```

Elapid_Venom_KSPI_01 61 GCEGNKNNFKTRHECHRACVR?
Elapid_Venom_KSPI_02 61 GCEGNKNNFKTIDECRRTCAG?
Elapid_Venom_KSPI_03 59 GCGGNANRFKTIDECRRT*---
Elapid_Venom_KSPI_04 59 GCGGNANRFKTIDECRRT*---
Elapid_Venom_KSPI_05 59 GCGGNANRFKTIDECRRT*---
Elapid_Venom_KSPI_06 59 GCGGNANRFKTIDECRRT*---
Elapid_Venom_KSPI_07 59 GCGGNANRFKTIDECRRTCAG*
Elapid_Venom_KSPI_08 59 GCGGNANRFKTIDECRRTCAG*
Elapid_Venom_KSPI_09 59 GCGGNANRFKTIDECRRTCAG*
Elapid_Venom_KSPI_10 59 GCGGSANRFKTIDECRRTCAG*
Elapid_Venom_KSPI_11 59 GCGGNANRFKTIGECRRTCAG*
Elapid_Venom_KSPI_12 59 GCGGNANRFKTIDECRRTCAG*
Elapid_Venom_KSPI_13 59 GCGGNANRFKTIDECRRTCAG*
Elapid_Venom_KSPI_14 59 GCGGNANRFKTIDECRRTCAG*
Elapid_Venom_KSPI_15 59 GCGGNANRFKTIDECRRACAG*
Elapid_Venom_KSPI_16 42 GCGGNANRFKTIDECHRACVR*

```

(C) C-type lectins

```
Elapid_Venom_CTL_01 1 MRRFLFVTLGLLVAFSLNGANGCC-CPRDWLPKNGFCYKVFNDRKNWDAETFCRKHKP
Elapid_Venom_CTL_02 1 MRRFLFVTLGLLVAFSLNGANGCC-CPRDWLPKNGFCYKVFNDRKNWDAETFCRKHKP
Elapid_Venom_CTL_03 1 MRRFLFVTLGLLVAFSLNGANGCC-CPRDWLPKNGFCYKVFNDRKNWDAETFCRKHKP
Elapid_Venom_CTL_04 1 MRRFLFVTLGLLVAFSLNGANGCC-CPRDWLPKNGFCYKVFNDRKNWDAETFCRKHKP
Elapid_Venom_CTL_05 1 MRRFLFVTLGLLVAFSLNGANGCC-CPRDWLPKNGFCYKVFNDRKNWDAETFCRKHKP
Elapid_Venom_CTL_06 1 MGRFLFVTLGLLVAFSLNGIGANLDCPSSWVSYNVSCYKLFKRMMTWNQAQTYCAEQQE
Elapid_Venom_CTL_07 1 MGRFLFVTLGLLVAFSLNGIGANLDCPSSWVSYNVSCYKLFKRMMTWNQAQTYCAEQQE
Elapid_Venom_CTL_08 1 MGRFLFVTLGLLVAFSLNGIGANLDCPSSWVSHNVSCYKLFKRMMTWNQAQTYCAEQQE
Elapid_Venom_CTL_09 1 MGRFLFVTLGLLVAFSLNGIGANLDCPSSWVSHNVSCYKLFKRMMTWNQAQTYCAEQQE
Elapid_Venom_CTL_10 1 MGRFLVSLGLLVAFSLNGIGADHHCPSDWHSFDKFCYKLIKWKWSWSDAEESCIQRQN
Elapid_Venom_CTL_11 1 MGRFLVSLGLLVAFSLNGIGADHHCPSDWHSFDKFCYKLIKWKWSWSDAEESCIQRQN
```

```
Elapid_Venom_CTL_01 60 GCHLASIHGSEESADLAEYVSDYLSNGGNVWIGLNDPQKQRNWQWTDTRSTNSYLTWKQGE
Elapid_Venom_CTL_02 60 GCHLASIHGSEESADLAEYASDYLSNGGNVWIGLNDPQKQRNWQWTDTRSTNSYLTWKQGE
Elapid_Venom_CTL_03 60 GCHLASIHGSEESADLAEYASDYLSNGGNVWIGLNDPQKQRNWQWTDTRSTNSYLTWKQGE
Elapid_Venom_CTL_04 60 GCHLASIHGSEESADLAEYASDYLSNGGNVWIGLNDPQKQRNWQWTDTRSTNSYLTWKQGE
Elapid_Venom_CTL_05 60 GCHLASIHGSEESADLAEYASDYLSNGGNVWIGLNDPQKQRNWQWTDTRSTNSYLTWKQGE
Elapid_Venom_CTL_06 61 NCQLASINEVGESVKSSDELSQRLEVL-DVWMGLS--KTKGNWKWSDGNSFTYTSWDEGE
Elapid_Venom_CTL_07 61 NCQLASINEVGESVKLSDELSQRLEVL-DVWMGLS--KTKGNWKWSDGNSFTYTSWDEGE
Elapid_Venom_CTL_08 61 NCQLASINEVGESVKLSDELSQRLEVL-DVWMGLS--KTKGNWKWSDGNSFTYTSWDEGE
Elapid_Venom_CTL_09 61 NCQLASINEVGESVKSSDELSQRLEVL-DVWMGLS--KTKGNWKWSDGNSFTYTSWDEGE
Elapid_Venom_CTL_10 61 SSHLVSIONWEESFNVKTVISRNLILFTNVWIGLNDPEKTRTRWRWSDDSKFDYTSWELRE
Elapid_Venom_CTL_11 61 SSHLVSIONWEESFNVKTVISRNLILFANVWIGLNDPEKTRTRWRWSDDSKFDYTSWELRE
```

```
Elapid_Venom_CTL_01 120 PNNLRNNENCVELLSPSGYKNWNDENCASTRAYLCKCRF*-----
Elapid_Venom_CTL_02 120 PNNLRNNENCVELLSPSGYKNWNDENCASTRAYLCKRRF*-----
Elapid_Venom_CTL_03 120 PNNLRNNENCVELLSPSGYKNWNNENCASTRAYLCKCRF*-----
Elapid_Venom_CTL_04 120 PNNLRNNENCVELLSPSGYKNWNDENCASTRAYLCKCRF*-----
Elapid_Venom_CTL_05 120 PNNLRNNENCVELLSPSGYENWNDENCASTRAYLCKCRF*-----
Elapid_Venom_CTL_06 118 PDNFLNNEFCAALSAQSRYLRWNDQNCMFLQPFVCKFKPKRSQPENE*
Elapid_Venom_CTL_07 118 PDNFLNNEFCAALSAQSRYLRWNDQNCMFLQPFVCKFKPKRSQPENE*
Elapid_Venom_CTL_08 118 PDNFLNNEFCAALSAQSRYLRWNDQNCMFLQPFVCKFKPKRSQPENE*
Elapid_Venom_CTL_09 118 PDNFLNNEFCAALSAQSRYLRWNDQNCMFLQPFVCKFKPKRSQPENE*
Elapid_Venom_CTL_10 121 PSNADDGKYCVQLSSSSRYLRWKTAKCESKNFFICKM*-----
Elapid_Venom_CTL_11 121 PGNADDGKYCVQLSSSSRYLRWKTAKCESKNFFICKM*-----
```


(D) Snake venom metalloproteinases

Elapid_Venom_SVMP_01 1 LERNKGLFSEDYTETHYAPDGREITTSPPVQDHCYYHGYIQNEDESSAVISACDGLKGFH
Elapid_Venom_SVMP_02 1 LERNKGLFSEDYTETHYAPDGREITTSPPVQDHCYYHGYIQNEDESSAVISACDGLKGFH
Elapid_Venom_SVMP_03 1 LERNKGLFSEDYTETHYAPDGREITTSPPVQDHCYYHGYIQNEDESSAVISACDGLKGFH
Elapid_Venom_SVMP_04 1 ???YIQNEDESSAVISACDGLKGFH
Elapid_Venom_SVMP_05 1 ???

Elapid_Venom_SVMP_01 61 KHQGETYFIEPLKLESEAHAIYKDENVKEKEDETPQICGVAQTTWESDESIEKTSQLTNT
Elapid_Venom_SVMP_02 61 KHQGGTYFIEPLKLESEAHAIYKDENVKEKEDETPQICGVAQTTWESDESIEKTSQLTNT
Elapid_Venom_SVMP_03 61 KHQGETYFIEPLKLESEAHAIYKDENVKEKEDETPQICGVAQTTWESDESIEKTSQLTNT
Elapid_Venom_SVMP_04 23 KHQGETYFIEPLKLESEAHAIYKDENVKEKEDETPQICGVAQTTWESDESIEKTSQLTNT
Elapid_Venom_SVMP_05 1 ???

Elapid_Venom_SVMP_01 121 PEQNRYLQVKKYIEIYMVVDYKMYMNYKRDKSAIKKKVYEMVNTMYTWYIRINNYIVLIG
Elapid_Venom_SVMP_02 121 PEQNRYLQVKKYIEIYMVVDYKMYMNYKRDKSAIKKKVYEMVNTMYTWYIRINNYIVLIG
Elapid_Venom_SVMP_03 121 PEQNRYLQAKKYIEIYMVVDYKMYMNYKRDKSAIKKKVYEMANTMYTWYVRINNYIVLIG
Elapid_Venom_SVMP_04 83 PEQNRYLQVKKYIEIYMVVDYKMYMNYKRDKSAIKKKVYEMVNTMYTWYIRINNYIVLIG
Elapid_Venom_SVMP_05 1 ???KKKVYEMANTMYTWYIRINNYIVLIG

Elapid_Venom_SVMP_01 181 LEIWSNGDQIMHPAANITLDFGEWRENVLLPRKWNDNTQILTGINLLGNTVGYGYVGT
Elapid_Venom_SVMP_02 181 LEIWSNGDQIMHPAANITLDFGEWRENVLLPRKWNDNTQILTGINLLGNTVGYGYVGT
Elapid_Venom_SVMP_03 181 LEIWSNGDQIMHPAANITLDFGEWRENVLLPRKWNDNTQILTGINLLGNTVGYGYVGT
Elapid_Venom_SVMP_04 143 LEIWSNGDQIMHPAANITLDFGEWRENVLLPRKWNDNTQILTGINLLGNTVGYGYVGT
Elapid_Venom_SVMP_05 27 LEIWSNGDQIMHPAANITLDFGEWRENVLLPRKWNDNTQILTGINLLGNTVGYGYVGT

Elapid_Venom_SVMP_01 241 LCGLATSAAVIQDFSKRTSMVATIMAHELGHNMGIHHDNDTCNCGANICIMSATIHDDPA
Elapid_Venom_SVMP_02 241 LCGLATSAAVIQDFSKRTSMVATIMAHELGHNMGIHHDNDTCNCGANICIMSATIHDDPA
Elapid_Venom_SVMP_03 241 LCGLATSAAVIQDFSKRTSMVATIMAHELGHNMGIHHDNDTCNCGANICIMSATIHDDPA
Elapid_Venom_SVMP_04 203 LCGLATSAAVIQDFSKRTSMVATIMAHELGHNMGIHHDNDTCNCGANICIMSATIHDDPA
Elapid_Venom_SVMP_05 87 LCGLATSAAVIQDFSKRTSMVATIMAHELGHNMGIHHDNDTCNCGANICIMSATIHDDPA

Elapid_Venom_SVMP_01 301 FQFSSCSVQYQEFLLRERPQCILNKPLSTDIVSPPVCGNYLVEVGEECDGSPEDCQSA
Elapid_Venom_SVMP_02 301 FQFSSCSVQYQEFLLRERPQCILNKPLSTDIVSPPVCGNYLVEVGEECDGSPEDCQSA
Elapid_Venom_SVMP_03 301 FQFSSCSVQYQEFLLRERPQCILNKPLSTDIVSPPVCGNYLVEVGEECDGSPEDCQSA
Elapid_Venom_SVMP_04 263 FQFSSCSVQYQEFLLRERPQCILNKPLSTDIVSPPVCGNYLVEVGEECDGSPEDCQSA
Elapid_Venom_SVMP_05 147 FQFSSCSVQYQEFLLRERPQCILNKPLSTDIVSPPVCGNYLVEVGEECDGSPEDCQSA

Elapid_Venom_SVMP_01 361 CCDAATCKLQQAQCDSEECCEKCKFKKAGAECREAKDDCDLPELCTGQSAECPTDRFQR
Elapid_Venom_SVMP_02 361 CCDAATCKLQQAQCDSEECCEKCKFKKAGAECREAKDDCDLPELCTGQSAECPTDRFQR
Elapid_Venom_SVMP_03 361 CCDAATCKLQQAQCDSEECCEKCKFKKAGAECREAKDDCDLPELCTGQSAECPTDRFQR
Elapid_Venom_SVMP_04 323 CCDAATCKLQQAQCDSEECCEKCKFKKAGAECREAKDDCDLPELCTGQSAECPTDRFQR
Elapid_Venom_SVMP_05 207 CCDAATCKLQQAQCDSEECCEKCKFKKAGAECREAKDDCDLPELCTGQSAECPTDRFQR

Elapid_Venom_SVMP_01 421 NGHPCQNNQ
Elapid_Venom_SVMP_02 421 NGHPCQNNQ
Elapid_Venom_SVMP_03 421 NGHPCQNNQ
Elapid_Venom_SVMP_04 383 NGHPCQNNQ
Elapid_Venom_SVMP_05 267 NGHPCQNNQ