

	First 23 amino acids removed from dataset	A39P	F53Y	K51R	V65M	K66E	V83L	V93I	T94I	M97L	R119W
human	MDPYMIQMSS KGNLPSILDV HVNIGGRSSV PGKMKGRKAR WSVRPSDMAK KTFNPPIRAIV DMNKVKPNPN KTMISLSIGD PTVFGNLPTD PEVTQAMKDA LSGKYNGYA PSIGFLSSRE										[120]
mouse	MDSYVIQTNV NDSLPSVLVD RVNIGGRSSV QGRAKGRKAR WNRVPSDSMN KTFNPPIRAIV DMNKVKPNPN KTVISLSIGD PTVFGNLPTD PEVTQAMKDA LSGKYNGYA PSIGYLSSRE										[120]
rat	MDSYVIQTDV DDSLSSVLDV HVNIGGRNSV QGRKKGRKAR WDVRPSDSMN KTFNPPIRAIV DMNKVKPNPN KTVISLSIGD PTVFGNLPTD PEVTQAMKDA LSGKYNGYA PSIGYLSSRE										[120]
cow	MDPYVIQMDF HGSLPSVLVD HVNAGRSSLV LGKVKSRKAR WSVRPSDSMN KTFNPPIRAIV DMNKVKPNPN KTMIALSIGD PTVFGNLPTD PEVTQAMKDA LSGKFNGVY PSIGYLSSRE										[120]
dog	MDPYVIQMNS NSNLPSVLVD HVNIGGRSSL PGKMKGRKAR WSVRPSDSMN KTFNPPIRAIV DSSKVKPNNP KATIALSIGD PTVFGNLPTD PEVTQAMKDA LSGKYNGYA PSIGYLSSRE										[120]
pig	MDPYVIQMHS HGNLPSVLVD HVNTAGRIPV PGKMKGRKAR WSVRPSDSMN KTCNPPIRAIV DSMKVKPNNP KTTISLSIGD PTVFGNLPTD QEVTVQAMKDA LSGKYNGYA PSIGYLSSRE										[120]
panda	MDPYVIQMNS NSNLPSVLVD HVNIGGRSSL PGKMKGRKAR WSVRPSDSMN KTFNPPIRAIV DSMKVKPNNP KTMIALSIGD PTVFGNLPTD PEVTQAMKDA LSGKYNGYA PSIGYLSSRE										[120]
horse	MDPYVIQMGT SGNLPSVLDM HVNISGRSSA PGKMKGRKAR WSVRPSDSMN KTFNPPIRAIV DMNKVKPNPN KTMIALSIGD PTVFGNLSTD PEVTQAMKDA VDSGKYNGYA PTIGYLLSRE										[120]
<i>Cynopterus sphinx</i>	MD-----S NGDLPSILGV HMHINGRSSA PEVKGRKPR WSVKPSDMAN RTYNPIRAIV DSMKMEPNPD KTTITLSIGD PTLGNPLTD PEIIQALKDA LSGKYNGYA PSIGYLSSRE										[120]
<i>Rousettus leschenaultii</i>	MD-----S DGDLPLFLLDV HVSVNGRSSV PEVKGRQPG WSVRPSDMAN RTYNPIRAIV DMNKLEPNPD KPMISLSLGD PTLGNPLTD PEIIQALKDA LSGKYNGYA PSIGYLSSRE										[120]
<i>Eonycteris spelaea</i>	MD-----S SSDLPFLLDV HVSVGRSPV PEVKGRKTE WSVRPSDMAN RTYNPIRAIV DSMKMEPNPD KTTIALSIGD PTLGNPLTD PEIIQALKDA LSGKYNGYA PSIGYLSSRE										[120]
<i>Pteropus vampyrus</i>	MD-----S KGDLPSVLVD HININGRSSV SEKVGRKPR WSVRPSDMAN RTYNPIRAIV DSMKMEPNPD KTTIPLSIGD PTLGNPLTD PEIIKALKDA LSGKYNGYA PSIGYLSSRE										[120]
<i>Rhinolophus ferrumequinum</i>	MDPYVIQMNG NSNLPSVLVD HVNIGGKNSK QEKGKGRKAR WSVRPSDMAN NTFPNPIRTIV DMNKVKPNPD KTMIALSIGD PTVFGNLPTD PEVTQAMKDA LSGKYNGYA PSIGYLSSRE										[120]
<i>Rhinolophus pusillus</i>	MDPYMIQMNG NGNLPSVLVD HVNIGGKNSK QEKGKGRKAR WSVRPSDSMN KTFNPPIRTIV DMNKVKPNPD KAMIALSIGD PTVFGNLPTD PEVTQAMKDA LSGKYNGYA PSIGYLSSRE										[120]
<i>Hipposideros armiger</i>	MDPYVIQMNS NGNFPVLVD HVNIGGKNSK QGKVKGRKAR WSVKSEMSN KTFNPPIRTIV DGMKVKPNNP KTMISLSIGD PTVFGNLPTD PEVTQAMKDA LSGKYNGYA PSIGYLSSRE										[120]
<i>Hipposideros pratti</i>	MDPYVIQMNS NGNFPVLVD HVNIGGKNSQ QGKVKGRKAR WSVKSEMSN KTFNPPIRTIV DGMKVKPNNP KTMISLSIGD PTVFGNLPTD PEVTQAMKDA LSGKYNGYA PSIGYLSSRE										[120]
<i>Megaderma lyra</i>	MDPYVIQMNG NGNLPSVLVD HVNIGGRSSM PGKVKGRKAR WSVKPSDMN KTFNPPIRTIV DSMKVKPNNP KAMIALSIGD PTVFGNLPTD PEVTQAMKDA LSGKYNGYA PSIGYLSSRE										[120]
<i>Megaderma spasma</i>	MDPYVIQMNG NGNLPSVLVD HVNIGGRSSM PGKVKGRKAR WSVKPSDMN NTFPNPIRTIV DSMKVKPNNP KAMIALSIGD PTVFGNLPTD PEVTQAMKDA LSGKYNGYA PSIGYLSSRE										[120]
<i>Myotis ricketti</i>	MDPYVIEMND SGDLPSVLVD HVNVGGRSTT PGKAKGRKAR WSVKPSDMN NTFPNPIRAIV DSMKVKPNNP KTMISLSIGD PTVFGNLPTD PEVTQAMKDA LSGKYNGYA PSIGYLSSRE										[120]
<i>Pipistrellus abramus</i>	MDPYVIEMNG SGD----- HVSVGGRSTT LGKAKGRKAR WSVKPSDMAN NTFPNPIRAIV DSMKVKPNNP KTMISLSIGD PTVFGNLPTD PEVTQAMKDA LSGKYNGYA PSIGYLSSRE										[120]
<i>Scotophilus kuhlii</i>	MDPYMIETNG SGDLPSVLVD H-----VGGRSTT PGKGRKAR WSVKPSDMN NTFPNPIRAIV DSMKVKPNNP KAMISLSIGD PTVFGNLPTD PEVTQAMKDA LSGKYNGYA PSIGYLSSRE										[120]
<i>Miniopterus fuliginosus</i>	MDPYVIQMNG NGNLPSVLVD HVNIGGKNSM PGKAKGRKAR WSVKPSDMN KTFNPPIRAIV ESMKVKPNNP KTMISLSIGD PTVFGNLPTD PEVTQAMKDA LSGKYNGYA PSIGYLSSRE										[120]
<i>Tadarida plicata</i>	MDPYVIQMNG NGNLPSVLVD HVNIGGKNSQ PGKAKGRKAR WSVKPSDMN NTFPNPIRTIV DSMKVKPNNP KAMISLSIGD PTVFGNLPTD PEVTQAMKDA LSGKYNGYA PSIGYLSSRE										[120]
<i>Mormoops megalophylla</i>	MDPYVIQMNG NGNLPSVLVD HVNIGGKNSL PGKAKGRKAR WSVKPSDMN NTFPNPIRTIV DSMKVKPNNP KAMISLSIGD PTVFGNLPTD PEVTQAMKDA LSGKYNGYA PSIGYLSSRE										[120]
<i>Pteronotus parnellii</i>	MDPYVIQMNG NGNLPSVLVD HVNIGGKNSL PGKAKGRKAR WSVKPSDMN NTFPNPIRTIV DSMKVKPNNP KAMISLSIGD PTVFGNLPTD PEVTQAMKDA LSGKYNGYA PSIGYLSSRE										[120]
<i>Desmodus rotundus</i>	MDPYVIQMNG NGNLPSVLVD HVNIGGKNSL PGKAKGRKAR WSVKPSDMN NTFPNPIRAIV DSMKVKPNNP KTMISLSIGD PTVFGNLPTD PEVTQAMKDA LSGKYNGYA PSIGYLCSRE										[120]
<i>Leptonycteris yerbabuena</i>	MDPYVIQMNG NGNLPSVLNV HVNIGGKNSL PGKAKGRKAR WSVKPSAMAN NTFPNPIRAIV DSMKVKPNNP KTMISLSIGD PTVFGNLPTD PEVTQAMKDA LSGKYNGYA PSIGYLSSRE										[120]
<i>Artibeus lituratus</i>											
human	EIASYYHCPE APLEAKDVL TSGCSQAIDL CLAVLANPGQ NILVPRPGFS LYKTLAESMG IEVKLYNLL EKSWEIDLQK LEYLIDEKTA CLIVNNPSNP CGSVFSKRHL QKILAVAARQ	C151Y	V164A	L171P	L201R	*	P220S	K232D			
mouse	EVASYYHCPE APLEAKDVL TSGCSQAIDL CLAVLANPGQ NILVPRPGFS LYKTLAESMG IEVKLYNLL EKSWEIDLQK LESLIDEKTA CLVNNPSNP CGSVFSKRHL QKILAVAERQ										[240]
rat	EVASYYHCPE APLEAKDVL TSGCSQAIDL CLAVLANPGQ NILVPRPGFS LYKTLAESMG IEVKLYNLL EKSWEIDLQK LESLIDEKTA CLVNNPSNP CGSVFSKRHL QKILAVAERQ										[240]
cow	EVASYYHCPE APLEAKDVL TSGCSQAIDL CLAVLANPGQ NILVPRPGFS LYKTLAESMG IEVKLYNLL EKSWEIDLQK LESLIDEKTA CLVNNPSNP CGSVFSKRHL QKILAVAERQ										[240]
dog	EVASYYHCPE APLEAKDVL TSGCSQAIDL CLAVLANPGQ NILVPRPGFS LYKTLAESMG IEVKLYNLL EKSWEIDLQK LESLIDEKTA CLVNNPSNP CGSVFSKRHL QKILAVAERQ										[240]
pig	EVASYYHCPE APLEAKDVL TSGCSQAIDL CLAVLANPGQ NILVPRPGFS LYKTLAESMG IEVKLYNLL EKSWEIDLQK LESLIDEKTA CLVNNPSNP CGSVFSKRHL QKILAVAERQ										[240]
panda	EVASYYHCPE APLEAKDVL TSGCSQAIDL CLAVLANPGQ NILVPRPGFS LYKTLAESMG IEVKLYNLL EKSWEIDLQK LESLIDEKTA CLVNNPSNP CGSVFSKRHL QKILAVAERQ										[240]
horse	EVASYYHCPE APLEAKDVL TSGCSQAIDL CLAVLANPGQ NILVPRPGFS LYKTLAESMG IEVKLYNLL EKSWEIDLQK LESLIDEKTA CLVNNPSNP CGSVFSKRHL QKILAVAERQ										[240]
<i>Cynopterus sphinx</i>	EIASYYHCPE APLEAKDVL TSGCSQAIDL CLAVLANPGQ NILVPRPGFA LYRTLAESMG IEVKCYNLL EKSWEIDLQK VESLDEKTA CLIVNNPSNP CGSVFSKRHL QKILAVAARQ										[240]
<i>Rousettus leschenaultii</i>	EVASYYHCPE APLEAKDVL TSGCSQAIDL CLAVLANPGQ NILVPRPGFS PYRTLAESMG IKIKNLYNLL EKSWEIDLQK LESLIDEKTA CLIVNNPSNP CGSVFSKRHL QDILAVAARQ										[240]
<i>Eonycteris spelaea</i>	EIASYYHHRPE APLEAKDVL TSGCSQAIDL CLAVLANPGQ NILVPRPGFS PYRTLAESMG IEVKLYNLL EKSWEIDLQK LESLIDEKTA CLIVNNPSNP CGSVFSKRSHL QKILAVAARQ										[240]
<i>Pteropus vampyrus</i>	EIASYYHHRPE APLEAKDVL TSGCSQAIDL CLAVLANPGQ NILVPRPGFS PYRTLAESMG IEVKLYNLL EKSWEIDLQK LESLIDEKTA CLVNNPSNP CGSVFSKRSHL QKILAVATRQ										[240]
<i>Rhinolophus ferrumequinum</i>	EIASYYHHRPE APLEAKDVL TSGCSQAIDL CLAVLANPGQ NILVPRPGFS PYRTLAESMG IEVKLYNLL EKSWEIDLQK LESLIDEKTA CLVNNPSNP CGSVFSKRSHL QKILAVAAQK										[240]
<i>Rhinolophus pusillus</i>	EIASYYHHRPE APLEAKDVL TSGCSQAIDL CLAVLANPGQ NILVPRPGFS PYRTLAESMG IEVKLYNLL EKSWEIDLQK LESLIDEKTA CLVNNPSNP CGSVFSKRSHL QKILAVAAQK										[240]
<i>Hipposideros armiger</i>	EIASYYHHRPE APLEAKDVL TSGCSQAIDL CLAVLANPGQ NILVPRPGFS PYRTLAESMG IEVKLYNLL EKSWEIDLQK LESLIDEKTA CLVNNPSNP CGSVFSKRSHL QKILAVAAQK										[240]
<i>Hipposideros pratti</i>	EIASYYHHRPE APLEAKDVL TSGCSQAIDL CLAVLANPGQ NILVPRPGFS PYRTLAESMG IEVKLYNLL EKSWEIDLQK LESLIDEKTA CLVNNPSNP CGSVFSKRSHL QKILAVAAQK										[240]
<i>Megaderma lyra</i>	EIASYYHHRPE APLEAKDVL TSGCSQAIDL CLAVLANPGQ NILVPRPGFS PYRTLAESMG IEVKLYNLL EKSWEIDLQK LESLIDEKTA CLVNNPSNP CGSVFSKRSHL QKILAVAAQK										[240]
<i>Megaderma spasma</i>	EIASYYHHRPE APLEAKDVL TSGCSQAIDL CLAVLANPGQ NILVPRPGFS PYRTLAESMG IEVKLYNLL EKSWEIDLQK LESLIDEKTA CLVNNPSNP CGSVFSKRSHL QKILAVAAQK										[240]
<i>Myotis ricketti</i>	EIASYYHHRPE APLEAKDVL TSGCSQAIDL CLAVLANPGQ NILVPRPGFS PYRTLAESMG IEVKLYNLL EKSWEIDLQK LESLIDEKTA CLVNNPSNP CGSVFSKRSHL QKILAVAAQK										[240]
<i>Pipistrellus abramus</i>	EIASYYHHRPE APLEAKDVL TSGCSQAIDL CLAVLANPGQ NILVPRPGFS PYRTLAESMG IEVKLYNLL EKSWEIDLQK LESLIDEKTA CLVNNPSNP CGSVFSKRSHL QKILAVAAQK										[240]
<i>Scotophilus kuhlii</i>	EIASYYHHRPE APLEAKDVL TSGCSQAIDL CLAVLANPGQ NILVPRPGFS PYRTLAESMG IEVKLYNLL EKSWEIDLQK LESLIDEKTA CLVNNPSNP CGSVFSKRSHL QKILAVAAQK										[240]
<i>Miniopterus fuliginosus</i>	EIASYYHHRPE APLEAKDVL TSGCSQAIDL CLAVLANPGQ NILVPRPGFS PYRTLAESMG IEVKLYNLL EKSWEIDLQK LESLIDEKTA CLVNNPSNP CGSVFSKRSHL QKILAVAAQK										[240]
<i>Tadarida plicata</i>	EIASYYHHRPE APLEAKDVL TSGCSQAIDL CLAVLANPGQ NILVPRPGFS PYRTLAESMG IEVKLYNLL EKSWEIDLQK LESLIDEKTA CLVNNPSNP CGSVFSKRSHL QKILAVAAQK										[240]
<i>Mormoops megalophylla</i>	EIASYYHHRPE APLEAKDVL TSGCSQAIDL CLAVLANPGQ NILVPRPGFS PYRTLAESMG IEVKLYNLL EKSWEIDLQK LESLIDEKTA CLVNNPSNP CGSVFSKRSHL QKILAVAAQK										[240]
<i>Pteronotus parnellii</i>	EIASYYHHRPE APLEAKDVL TSGCSQAIDL CLAVLANPGQ NILVPRPGFS PYRTLAESMG IEVKLYNLL EKSWEIDLQK LESLIDEKTA CLVNNPSNP CGSVFSKRSHL QKILAVAAQK										[240]
<i>Desmodus rotundus</i>	EIASYYHHRPE APLEAKDVL TSGCSQAIDL CLAVLANPGQ NILVPRPGFS PYRTLAESMG IEVKLYNLL EKSWEIDLQK LESLIDEKTA CLVNNPSNP CGSVFSKRSHL QKILAVAAQK										[240]
<i>Leptonycteris yerbabuena</i>	EIASYYHHRPE APLEAKDVL TSGCSQAIDL CLAVLANPGQ NILVPRPGFS PYRTLAESMG IEVKLYNLL EKSWEIDLQK LESLIDEKTA CLVNNPSNP CGSVFSKRSHL QKILAVAAQK										[240]
<i>Artibeus lituratus</i>											
human	CVPILADEIY GDMVFSDCY EPLATLSTDV PILSCGGAK RWLVPGRWL RILIHDRDI FGNEIRDGLV KLSQRILGPC TIVQGALKSI LCRTPGEFYH NTLSFLKSNA DLCYGAIAAI	S258T	L263I	S268R	L273P	*	D307N	L317M</td			