

(A)

FSHB

<i>M. rufoniger</i>	RVPGCAHHADSXYMYPVATECHCGKCNRDSTDCTVQGLGPSYCSFSEIKE	129
<i>M. davidii</i>	RVPGCAHHADSVYTYPIATECHCGKCNRDSTDCTVQGLGPSYCSFSEIKE	
<i>M. brandtii</i>	RVPGCAHHADSIYTYPVATECHCGKCNRDSTDCTVQGLGPSYCSFSEIKE	
<i>M. lucifugus</i>	RVPGCAHHADSVYTYPVATECHCGKCNRDSTDCTVQGLGPSYCSFSEIKE	
<i>E. fuscus</i>	RVPGCAHQADSVYTYPVATECHCGKCNRDSTDCTVQGLGPSYCSFSEIKE	
<i>P. alecto</i>	KVPGCAHHANSLYAYPVATECHCGKCDSDNTDCTVRGLGPSYCSFSEMKE	
<i>P. vampyrus</i>	KVPGCAHHANSLYAYPVATECHCGKCDSDNTDCTVRGLGPSYCSFSEMKE	
<i>R. aegyptiacus</i>	KVPGCAHHANSLYAYPVATECHCGKCDSDNTDCTVRGLGPSYCSFSEMKE	
<i>B. taurus</i>	KVPGCAHHADSLYTYPVATECHCSKCDSDSTDCTVRGLGPSYCSFREIKE	
<i>E. caballus</i>	KVPGCAHHADSLYTYPVATAACHCGKCNDSSTDCTVRGLGPSYCSFGDMKE	
<i>M. musculus</i>	RLPGCARHSDSLYTYPVATECHCGKCDSDSTDCTVRGLGPSYCSFSEMKE	
<i>H. glaber</i>	RVPGCAHHADSLYTYPVATKCHCGKCDSDSTDCTVRGLGPSYCSFSEMA-	
<i>H. sapiens</i>	RVPGCAHHADSLYTYPVATQCHCGKCDSDSTDCTVRGLGPSYCSFGEMKE	
<i>M. domestica</i>	SLPGCANQADSLYSYPVATAACHCGSCDSTDSTDCTVRGLGPSYCSFNERKE	

(B)

GHR

<i>M. rufoniger</i>	QMSVPCEEDFRFPWFLIIIFGMFGLTVI-FLFMFSKQQR IKMLILPPVP	301
<i>M. davidii</i>	QMSVPCEEDFRFPWFLIVIFGMFGLTVI-FLFMFSKQQR IKMLILPPVP	
<i>M. brandtii</i>	QMSVPCEEDFRFPWFLIIIFGMFGLTVI-FLFVFSKQQR IKMLLLPPVP	
<i>M. lucifugus</i>	YEILFSCVSDFRFPWFLIIIFGMFGLTVI-FLFMFSKQQR IKMLLLPPVP	
<i>E. fuscus</i>	QMSVPCEEDFQFPWFLIIIFGMFGLTVI-FLFMFSKQQR IKMLILPPVP	
<i>P. alecto</i>	QMSPLACEEDFRFPWFLIIIFGIFGLTVILFLFIFSKQQR IKMLILPPVP	
<i>P. vampyrus</i>	QMSPLACEEDFRFPWFLIIIVGIFGLTVILFLFIFSKQQR IKMLILPPVP	
<i>R. aegyptiacus</i>	QMSPLACEEDFRFPWFLIIIFGIFGLTVILFLFIFSKQQR IKMLILPPVP	
<i>B. taurus</i>	QMNPSACEEDFQFPWFLIIIFGILGLAVTLYLLIFSKQQR IKMLILPPVP	
<i>E. caballus</i>	QMSPLACEEDFQFPWFLIIILGIFGLTVILFLFIFSKQQR IKMLILPPVP	
<i>M. musculus</i>	--ILEACEEDIQFPWFLIIIFGIFGVAVMLFVVIFSKQQR IKMLILPPVP	
<i>H. glaber</i>	QLSSFTCEEEFQFPWFLIIMIFGIFGLMVMLLVVIFSKQQR IKMLILPPVP	
<i>H. sapiens</i>	QMSQFTCEEDFYFPWLLIIIFGIFGLTVMLFVFLFSKQQR IKMLILPPVP	
<i>M. domestica</i>	S-ECEEKINDFRFPWFLIIIFGILGLTVVLFVFLSKQQR IKLLILPPVP	

(C)

IGF1R

<i>M. rufoniger</i>	AAYD S HAHLVIALP I IVLTVLGLAL T LYI IHRKR - -N R MGN G VLY	974
<i>M. davidii</i>	AAYD S HAHLVIALP I IVLTVLGLAL T LYI IHRKR - -N R MGN G VLY	
<i>M. brandtii</i>	AAYD S HAHLVIALP I IVLTVLGLAL T LYV IHRKR - -N R MGN G VLY	
<i>M. lucifugus</i>	AAFD S HAHLVIALP I IVLTVLGLAL T LYI IHRKR - -N R MGN G VLY	
<i>E. fuscus</i>	AAMD N YAHLVIALP I IVLIVCGLA V TLYI IHRKR - -N R MGN G VLY	
<i>P. alecto</i>	TTYENFMHLI IALP I AILLIVGGLVIMLYVFHRKRNSNRLGNGVLY	
<i>P. vampyrus</i>	TTYENFMHLI IALP I AILLIVGGLVIMLYVFHRKRNSNRLGNGVLY	
<i>R. aegyptiacus</i>	ATYENF T HLVIALP V AILLIVAGLVIMLYVFHRKRNSNRLGNGVLY	
<i>B. taurus</i>	TTYENFIHLMIALP I AVLLIVGGLVIMLYVFHRKRNS S RLGNGVLY	
<i>E. caballus</i>	TTYENFIHLI IALP V AVLLIVGGLVIMLYVFHRKRNS S RLGNGVLY	
<i>M. musculus</i>	TTYENFMHLI IALP V AILLIVGGLVIMLYVFHRKRNS S RLGNGVLY	
<i>H. glaber</i>	TTYENFIHLI IALP V AILLIVGGLVIMLYVFHRKRNS S RLGNGVLY	
<i>H. sapiens</i>	TGYENFIHLI IALP V AVLLIVGGLVIMLYVFHRKRNS S RLGNGVLY	
<i>M. domestica</i>	QDYENFLHLMIALP I AGLFIVGGLLIMWYVF N KKRNSDRLGNGVLY	

(D)

TP53

<i>M. rufoniger</i>	ALPTNTDSSPP-PKXPVDXEXFTLQIRGRERFETFRLNE	378
<i>M. davidii</i>	ALPTNTDSSPP-PKKPADEEYFTLQIRGRERFETFRLNE	
<i>M. brandtii</i>	ALPTNTDPSPP-PKKPADEEYFTLQIRGRERFETFRLNE	
<i>M. lucifugus</i>	ALPTNTDPSPP-PKKPADEEYFTLQIRGRERFETFRLNE	
<i>E. fuscus</i>	ALPTDSDSSPP-PKMPVDGEYFTLQIRGRARFEMFRELNE	
<i>P. alecto</i>	ALPTDTSSSSPKMPPLDEEYFTLQIRGRKNFEILRELNE	
<i>P. vampyrus</i>	ALPTDTSSSSPKMPPLDEEYFTLQIRGRKNFEILRELKE	
<i>R. aegyptiacus</i>	ALPTNTTSSSPKMPPLDEEYFTLQIRGRKNFEMLRELNE	
<i>B. taurus</i>	ALPTNTSSSPQPKKPLDGEYFTLQIRGFKRYEMFRELND	
<i>E. caballus</i>	VLSSNTSSSPQPKKPLDGEYFTLQIRGRERFEMFRELNE	
<i>M. musculus</i>	ALPTCTSASPPQPKKPLDGEYFTLKIRGRKRFEMFRELNE	
<i>H. glaber</i>	ALPTGTNSSPQPKKPLDGEYFTLKIRGRERFEMFRELNE	
<i>H. sapiens</i>	ALPNNTSSSPQPKKPLDGEYFTLQIRGRERFEMFRELNE	
<i>M. domestica</i>	ALPTTPGSTPKAKKKLVEGEYFTLQIRGRQRYELLREINE	

(E)

MDM2

<i>M. rufoniger</i>	ENSDEL S GERQ R K R H R S D S I S F SFDESLALCVIREIRCER	210
<i>M. davidii</i>	ENSDEL S GERQ R K R H R S D S I S F SFDESLALCVIREIRCER	
<i>M. brandtii</i>	ENSDEL S GERQ R K R H R S D S I S F SFDESLALCVIREIRCER	
<i>M. lucifugus</i>	ENSDEL S GERQ R K R H R S D S I S F SFDESLALCVIREIRCER	
<i>E. fuscus</i>	GNSDEL S CERQ R K R H R S D S I S F SFDESLALCVIREIRCER	
<i>P. alecto</i>	DNSDEL P GERQ R K R H K S D S I S F SFDESLALCVIREIRCER	
<i>P. vampyrus</i>	DNSDEL P GERQ R K R H K S D S I S F SFDESLALCVIREIRCER	
<i>R. aegyptiacus</i>	DNSDEL P GERQ R K R H K S D S I S F SFDENLALCVIREIRCER	
<i>B. taurus</i>	ENSDEL P GERQ R K R H K SDNI S LSFDESLALCVIREICCER	
<i>E. caballus</i>	ENSDEL P GERQ R K R H K SDSV S LSFDEGLALCVIREICCDG	
<i>M. musculus</i>	ENTDEL P GERH R K R R R R- - - -SLSFDPSLGLCELREMCSSG	
<i>H. glaber</i>	ENSDEL S GERQ R K R H K S D S I S L SFDESLALCVIRELCCER	
<i>H. sapiens</i>	ENSDEL S GERQ R K R H K S D S I S L SFDESLALCVIREICCER	
<i>M. domestica</i>	ENLDEL P GERH R K R H K S D S I S L PFDESCALCVI S EICCER	

(F)

SLC45A2

<i>M. rufoniger</i>	YRCLCISHLIGWTAFLSNMLFFTFDMGRIVYHGPNPYSAHNSTEFLIYERG	214
<i>M. davidii</i>	YRCLCISHLIGWTAFLSNMLFFTFDMGRIVYHGPNPYSAHNSTEFLIYERG	
<i>M. brandtii</i>	YRCLCISHLIGWTAFLSNMLFFTFDMGRIVYHGPNPYSAHNSTEFLIYERG	
<i>M. lucifugus</i>	YRCLCISHLIGWTAFLSNMLFFTFDMGRIVYHGPNPYSAHNSTEFLIYERG	
<i>E. fuscus</i>	YRCLCISHLIGWTAFLSNMLFFTFDMGRIVYHGPNPYSAHNSTEFLIYERG	
<i>P. alecto</i>	HRCLCISHLIGWTAFLCNMLFFTFDMGQIVYHGDPYSAHNSTEFLIYERG	
<i>P. vampyrus</i>	YRYLCISHLIGWTAFLCSMLFFTFDMGQIVYHGDPYSAHNSTEFLIYERG	
<i>R. aegyptiacus</i>	YRCLCISHLIGWTAFLSNMLFFTFDMGQIVYHGDPYSAHNSTEFLIYERG	
<i>B. taurus</i>	YRCLCISHLIGWTAFLSNMLFFTFDMGQIVYHGDPYGAHNSTEFLIYQRG	
<i>E. caballus</i>	YRYLCISHLIGWTAFLSNMLFFTFDMGQIVYHGDPYSAHNSTEFLIYQRG	
<i>M. musculus</i>	YRCLCVSHLIGWTAFLSNMLFFTFDMGQIVYHGDPYGAHNSTEFLIYERG	
<i>H. glaber</i>	YRCLCISHLIGWTAFLSNMLFFTFDMGQIVYRGDPYSAHNSTEFLIYERG	
<i>H. sapiens</i>	YRYLCISHLIGWTAFLSNMLFFTFDMGQIVYRGDPYSAHNSTEFLIYERG	
<i>M. domestica</i>	YRYLCVSHLIGWTAFLSNMLFFTFDMGQIVYHGDPYAPHNSTSFLIYERG	

(G)

RGS7BP

<i>M. rufoniger</i>	TRTKGCEMARQAHQKLAAI SGPEGGE IHPEICRLYIQLQCCEMYTTEML	140
<i>M. davidii</i>	-----MISCLPPLYQHPLP	
<i>M. brandtii</i>	TRTKGCEMARQAHQKLAAI SGPEGGE IHPEICRLYIQLQCCEMYTTEML	
<i>M. lucifugus</i>	TRTKGCEMARQAHQKLAAI SGPEGGE IHPEICRLYIQLQCCEMYTTEML	
<i>E. fuscus</i>	TRTKGCEMARQAHQKLAAI SGPEGGE IHPEICRLYIQLQCCEMYTTEML	
<i>P. alecto</i>	TRTKGCEMARQAHQKLAAI SGPEDGE IHPEICRLYIQLQCCEMYTTEML	
<i>P. vampyrus</i>	TRTKGCEMARQAHQKLAAI SGPEDGE IHPEICRLYIQLQCCEMYTTEML	
<i>R. aegyptiacus</i>	TRTKGCEMARQAHQKLAAI SGPEDGE IHPEICRLYIQLQCCEMYTTEML	
<i>B. taurus</i>	TRTKGCEMARQAHQKLAAI SGPEDGE IHPEICRLYIQLQCCEMYTTEML	
<i>E. caballus</i>	TRTKGCEMARQAHQKLAAI SGPEDGE IHPEICRLYIQLQCCEMYATEML	
<i>M. musculus</i>	TRTKGCEMARQAHQKLAAI SGPEDGE IHPEICRLYIQLQCCEMYTTEML	
<i>H. glaber</i>	TRTKGCEMARQAHQKLAAI SGPEDGE IHPEICRLYIQLQCCEMYTTEML	
<i>H. sapiens</i>	TRTKGCEMARQAHQKLAAI SGPEDGE IHPEICRLYIQLQCCEMYTTEML	
<i>M. domestica</i>	TRTKGCEMARQAHQKLAAI SGPEDGE IHPEICRLYIQLQCCEMYTTEML	

(H)

RHO

<i>M. rufoniger</i>	PLNYILLNLAVANLFMVFGGFTTTLYTSMHGYFVFGATGCNLEGGFFATLG	120
<i>M. davidii</i>	PLNYILLNLAVANLFMVFGGFTTTLYTSMHGYFVFGATGCNLEGGFFATLG	
<i>M. brandtii</i>	PLNYILLNLAVANLFMVFGGFTTTLYTSMHGYFVFGATGCNLEGGFFATLG	
<i>M. lucifugus</i>	PLNYILLNLAVANLFMVFGGFTTTLYTSMHGYFVFGATGCNLEGGFFATLG	
<i>E. fuscus</i>	PLNYILLNLAVANLFMVFGGFTTTLYTSMHGYFVFGATGCNLEGGFFATLG	
<i>P. alecto</i>	PLNYILLNLAVADLFMVFGGFTTTLYTSLHGYFVFGPTGCNLEGGFFATLG	
<i>P. vampyrus</i>	-----MRQGSNQSLADCLA	
<i>R. aegyptiacus</i>	PLNYILLNLAVADLFMVFGGFTTTLYTSLHGYFVFGPTGCNLEGGFFATLG	
<i>B. taurus</i>	PLNYILLNLAVADLFMVFGGFTTTLYTSLHGYFVFGPTGCNLEGGFFATLG	
<i>E. caballus</i>	PLNYILLNLAVADLFMVFGGFTTTLYTSLHGYFVFGPTGCNVEGGFFATLG	
<i>M. musculus</i>	PLNYILLNLAVADLFMVFGGFTTTLYTSLHGYFVFGPTGCNLEGGFFATLG	
<i>H. glaber</i>	PLNYILLNLAVADLFMVICGFTTTLYTSMHGYFVFGATGCNMEGGFFATLG	
<i>H. sapiens</i>	PLNYILLNLAVADLFMVLGGFTSTLYTSLHGYFVFGPTGCNLEGGFFATLG	
<i>M. domestica</i>	PLNYILLNLI VADLFMVFGGFTMTLYTSLHGYFVFGPTGCNLEGGFFATLG	

<i>M. rufoniger</i>	241	ATTQKAEKEVTRMVI IMVVAFLICWLPYASVAFYIFTHQG	280
<i>M. davidii</i>		ATTQKAEKEVTRMVI IMVVAFLICWLPYASVAFYIFTHQG	
<i>M. brandtii</i>		ATTQKAEKEVTRMVI IMVVAFLICWLPYASVAFYIFTHQG	
<i>M. lucifugus</i>		ATTQKAEKEVTRMVI IMVVAFLICWLPYASVAFYIFTHQG	
<i>E. fuscus</i>		ATTQKAEKEVTRMVI IMVVAFLICWLPYASVAFYIFTHQG	
<i>P. alecto</i>		ATTQKAEKEVTRMVI IMVIAFLICWLPYAGVAFYIFTHQG	
<i>P. vampyrus</i>		ATTQKAEKEVTRMVI IMVIAFLICWLPYAGVAFYIFTHQG	
<i>R. aegyptiacus</i>		ATTQKAEKEVTRMVI IMVIAFLICWLPYAGVAFYIFTHQG	
<i>B. taurus</i>		ATTQKAEKEVTRMVI IMVIAFLICWLPYAGVAFYIFTHQG	
<i>E. caballus</i>		ATTQKAEKEVTRMVI IMVIAFLICWVPYASVAFYIFTHQG	
<i>M. musculus</i>		ATTQKAEKEVTRMVI IMVIFFLICWLPYASVAFYIFTHQG	
<i>H. glaber</i>		ATTQKAEKEVTRMVI IMVIAFLICWVPYASVAMYIFTHQG	
<i>H. sapiens</i>		ATTQKAEKEVTRMVI IMVIAFLICWVPYASVAFYIFTHQG	
<i>M. domestica</i>		ATTQKAEKEVTRMVI IMVIAFLICWLPYAGVAFYIFTHQG	

(I)

OPN1SW

<i>M. rufoniger</i>	PWDGPQYHXAPVWAFHLQAAFMGFVFFAGTPLNATVLVATLRYKKLRQPL	70
<i>M. davidii</i>	PWDGPQYHIAPVWAFHLQAAFMGFVFFAGTPLNATVLVATLRYKKLRQPL	
<i>M. brandtii</i>	PWDGPQYHIAPVWAFHLQAAFMGFVFFAGTPLNATVLVATLRYKKLRQPL	
<i>M. lucifugus</i>	PWDGPQYHIAPVWAFHLQAAFMGFVFFAGTPLNATVLVATLRYKKLRQPL	
<i>E. fuscus</i>	PWDGPQYHIAPVWAFHLQAAFMGFVFFAGTPLNATVLVATLRYKKLRQPL	
<i>P. alecto</i>	PWDGPQHIIAPVWAFHLQAAFMGFVFFVGTPLNATVLVATLRYRKLQRPL	
<i>P. vampyrus</i>	PWDGPQHIIAPVWAFHLQAAFMGFVFFVGTPLNATVLVATLRYRKLQRPL	
<i>R. aegyptiacus</i>	PWDGPQYHVAPVWAFHLQAAFMGFVFFVGTPLNATVLVATLRYRKLQRLL	
<i>B. taurus</i>	PWDGPQYHLAPVWAFHLQAAFMGFVFFVGTPLNATVLVATLRYRKLQRPL	
<i>E. caballus</i>	PWDGPQYHIAPVWAFRLQAAFLGIVFLVGMPLNSLVLVATLRYKKLRQPL	
<i>M. musculus</i>	PWDGPQYHLAPVWAFRLQAAFMGFVFFVGTPLNAIVLVATLHYKKLRQPL	
<i>H. glaber</i>	PWDGSQYHIAPIWAFHLQAAFMGLVFFVGTPLNAIVLVATLQYKKLRQPL	
<i>H. sapiens</i>	PWDGPQYHIAPVWAFYLQAAFMGTVFLIGFPLNAMVLVATLRYKKLRQPL	
<i>M. domestica</i>	PWDGPQYHIAPAWAFHFQTVFMGFVFCAGTPLNAVVLVATLRYKKLRQPL	

<i>M. rufoniger</i>	81	GFLFCIFSFTVFIASCQGYFVFRHVCALAEFLGSTAGL	120
<i>M. davidii</i>		GFLFCIFSFTVFIASCQGYFVFRHVCALAEFLGSTAGL	
<i>M. brandtii</i>		GFLFCIFSFTVFIASCHGYFVFRHVCALAEFLGSTAGL	
<i>M. lucifugus</i>		GFLFCIFSFTVFIASCQGYFVFRHVCALAEFLGSTAGL	
<i>E. fuscus</i>		GFLFCIFSFTVFIASCQGYFIFGRHVCALAEFLGSTAGL	
<i>P. alecto</i>		GFLFCIFSFTVFIASCQGYFVFGPHVCALAEFLGSTAGL	
<i>P. vampyrus</i>		GFLFCIFSFTVFIASCQGYFVFRHVCALAEFLGSTAG-	
<i>R. aegyptiacus</i>		GFLFCIFSFTVFIASCQGYFVFRHVCALAEFLGSAAGL	
<i>B. taurus</i>		GFICYIFSFTVFIITSCYGYFVFRHVCALAEFLGCTAGL	
<i>E. caballus</i>		GFLVCIFSFLIVFINSCHGYFVFGPHVCAFESFLGTAVAGL	
<i>M. musculus</i>		GFLFCIFSFTVFIASCHGYFLFRHVCALAEFLGSAAGL	
<i>H. glaber</i>		GFLFCIFSFTVFIASCHGYFFFGRHVCALAEFLGSAAGL	
<i>H. sapiens</i>		GFLLCIFSFPVFAVASCNGYFVFRHVCALAEFLGTAVAGL	
<i>M. domestica</i>		GFIFCLFAVFTVFISSSQGYFIFGRHVCALAEFLGSAAGL	

(J)

CNGB3

<i>M. rufoniger</i>	FFEFNHRLESIMNRAYIYRVARTAGCLLFALHVNACIYYWASDHQIGTT	430
<i>M. davidii</i>	FFEFNHHLESIMNRAYIYRVARTAGCLLFALHVNACIYYWASDHQFGST	
<i>M. brandtii</i>	FFEFNHCLESIMNRAYIYRVARTAGCLLFALHVNACIYYWASDHQIGTT	
<i>M. lucifugus</i>	FFEFNHRLESIMNRAYIYRVARTAGCLLFALHVNACIYYWASNHQIGTT	
<i>E. fuscus</i>	FFEFNHRLESIMDKAYIYRVARTAGCLLFALHVNACIYYWASDHQIGTT	
<i>P. alecto</i>	FFEFNHRLESAMDKAYVYRVFRTTGYYLLFTLHINACIYYWASAYEGLGTT	
<i>P. vampyrus</i>	FFEFNHRLESAMDKAYVYRVFRTTGYYLLFTLHINACIYYWASAYEGLGTT	
<i>R. aegyptiacus</i>	FFEFNHRLESVMDKAYIYRVLRRTTGYYLLFTLHINACIYYWASAYEGLGTT	
<i>B. taurus</i>	-----	
<i>E. caballus</i>	FFEFNHHLESIMDKAYIYRVIRTTGYYLLFTLHINACIYYWASNYEGIGTT	
<i>M. musculus</i>	FFEFNHHLESIMDKAYVYRVIRTTGYYLLFLLHINACVYYWASDYEGIGST	
<i>H. glaber</i>	FFEFNHHLESIMDKVYIYRVIRTTGYYLLFILHINACIYYWASNYEGIGTT	
<i>H. sapiens</i>	FFEFNHHLESIMDKAYIYRVIRTTGYYLLFILHINACVYYWASNYEGIGTT	
<i>M. domestica</i>	FFEFNDRLESRMDNAYIYRVIRTTGYYLLFVLHVNACIYSLASDYEGIGST	