TRPA1 Protein Sequences

House mouse:

1 mkrglrrill peerkevqgv vyrgvgedmd cskesfkvdi egdmcrledf iknrrklsky

61 edenlcplhh aaaegqvelm eliingssce vlnimdgygn tplhcaaekn qvesvkflls

121 qganpnlrnr nmmsplhiav hgmynevikv ltehkatnin legengntal mstcakdnse

181 alqillekga klcksnkwgd ypvhqaafsg akkcmelila ygekngysre thinfvnhkk

241 asplhlavqs gdldmikmcl dngahidmme nakcmalhfa atqgatdivk lmissytgss

301 divnavdgnq etllhraslf dhhdlaeyli svgadinstd segrsplila tasaswnivn

361 lllckgakvd ikdhlgrnfl hltvqqpygl rnlrpefmqm qhikelvmde dndgctplhy

421 acrqgvpvsv nnllgfnvsi hskskdkksp lhfaasygri ntcqrllqdi sdtrllnegd

481 lhgmtplhla aknghdkvvq lllkkgalfl sdhngwtalh hasmggytqt mkvildtnlk

541 ctdrldeegn talhfaareg hakavamlls ynadillnkk qasflhialh nkrkevvltt

601 irnkrwdecl qvfthnspsn rcpimemvey lpecmkvlld fcmipstedk scqdyhieyn

661 fkylqcplsm tkkvaptqdv vyepltilnv mvqhnriell nhpvcreyll mkwcaygfra

721 hmmnlgsycl glipmtllvv kiqpgmafns tgiingtsst heeridtlkr nyfldynnal

781 ewviyttsii fvlplflnip aymqwqcgai aiffywmnfl lylqrfencg ifivmlevif

841 ktllrstgvf iflllafgls fyvllnfqda fstpllsliq tfsmmlgdin yrdafleplf

901 rnelaypvlt fgqliaftmf vpivlmnlli glavgdiaev qkhaslkria mqvelhtnle

961 kklplwylrk vdqrstivyp nrprhgrmlr ffhyflnmqe trqevpnidt clemeilkqk

1021 yrlkdltsll ekqhelikli iqkmeiiset edednhcsfq drfkkerleq mhskwnfvln

1081 avktkthcsi shpdf

Thirteen-lined ground squirrel

1 mkrslrkmlr pgekepqdvv yqgveddmde skdsfkvvfe gnahrlqnfi knrrklskyd

61 dtnasplhha aaegqvelmk tiisgsscav lnvmddygnt plhwateknq vesvkfllsq

121 ganpnlrngn mmaplhiaaq gmyneiikvl tehrstninl egengntall ttcakdnsea

181 lqillnkgak lcksnkwgdf pvhqaafsga kkcmeiilkh geehgysrqs hinfvnnkkv

241 splhlavqsg dlemikmcld ngahielven gkcmalhfaa tqgateivkl missysgdsn

301 ivnaldgnce tllhraslfd hhelaeylis agadinstds egrsplilat asaswnivnl

361 llskgarvdi kdhlgrnflh ltvqqpyglk nlqpefmqmq hikelvmded ndgctplhya

421 crqgvpvsvn nllgfnvsih skskdkkspl hfaasygrin tcqrllqdis dtrllnegdl

481 hgmtplhlaa knghdkvvql llkkgalfls dhngwtalhh asmggytqtm kvildtnlkc

541 tdrldeegnt alhfaaregh akavalllsh daeiilnkqq asflhialhn krkevvltti

601 rskrwdeclq vfthhspsnr cptmemveyl pecmkvlldf cmipstedks crdyhieynf

661 rylqcplelt khttpiqgvi yeplsvlnvm vqhnrielln hpvckeyllm kwcaygfrah

721 mmnlgsyclg lipmtllvvn vkpgmafnst giinetsdhl eildstnsya iqvcmilvfl

781 ssifgyckev vqifqqkrny fldynnalew liyttsiifv lplfvnvpan vqwqcgaiai

841 yfywmnflly lqrfencgif ivmlevilkt llrstvvfvf lllafglsfy vllniqdafs

901 spllsiiqtf smmlgdinyr daflepflrn elaypflsfa qlivftmfvp ivlmnlligl

961 avgdiaevqk haslkriamq velhtslekk lplwflrkvd qkstivypnr prggkilrlf

1021 hylfgsheir qeisntdtcl eiemlkqkyr lkdltsllek qhelikliiq kmeiiseted

1081 ednhcsfqdk fkkerlelms srwnsvlrav ktktqclepr p

Chinese Hamster (Cricetulus griseus)

1 mkcslkrmlr peerkelqgv vyrgveedmd yskdsfkvdi egdryrlehf mkhrrklsky

61 edenisplhh aaaegqvelm kmiihgssce vlnimdssgn tplhwaaekn qvesvkflls

121 qganpnlrnn nmmaplhiav qasynemtkv lvehtttnin legengntal mstcakdnse

181 alqillekga klcksnkwgd ypvhqaafsg akkcmelilk ygeehgykre fhinfvnhkk

241 asplhlangk cmalhfaatq gatdivklmi ssytgsndiv navdgnhetl lhrqgadins

301 tdsegrspli latasaswni vnlllskgak vdikdhlgrn flhltvqqpy glknlqpefm

361 qmqhikelvm dedndgctpl hyacrqgvpv svnnllgfnv sihskskdkk splhfaasyg

421 rintcqrllq disdtrllne gdlhgmtplh laaknghdkv vqlllkkgal flsdhngwta

481 lhhasmggyt qtmkvildtn lkctdrldee gntalhfaar eghakavaml lsynadilln

541 kqhasflhia lhnkrkevvl ttirskrwde clqvfshysp snrcpitemv eylpecmkvl

601 ldfcmipste dkscqdyhie ynfkylqcpl sltkkvtptq dvvyepltil nvmvqhnrie

661 llnhpvckey llmkwcaygf rahmmnlgsy clglipmtfl vvkikpglaf nstgiinett

721 dhletvdtln sfpikvcmil vflsslfgyc kevvqifqqk rnyfldynna lewviyttsi

781 vfvlplflni paymqwqcga iaiffywmnf llylqrfenc gifivmlevi fktllrstgv

841 fiflllafsl sfyvllnfqd afsspllsli qtftmmlgdi nyrdaflepl lkkelaypil

901 tfgqlilftm fvpivlmnll iglavgdiae vqkhaslkri amqvelhtnl ekklplwylr

961 kvdqkstivy pnrprhgrml rffhyflwtq etrqevpntd mclemeilkq kyrlkdltsl

1021 lekqhelikl iiqkmeiise tedednhcsf qdkfkkerle qmqskwnfvl navktkth

Guinea pig (Cavia porcellus):

1 mkrslrkllr sgetepqgav yqgvddsmpd skdfkvvfeg necrlqhiik nrwklnkyee

61 envsalhhaa gegqlelmkm iisgsscevl nlmdnygntp mhwaaennqv esvkfllihg

121 anpnlrnnnm maplhiavqg mhnemakvli ehsstninle gengntavmi tctkdnseil

181 eillkkgakl cksnkwgdfp vhqaafsgak kcmelilkfg eedgysrqch infvnnkqvs

241 plhlavqsgn lemikmcldn gahiekieng kcmalhfaat qgateivklm lssysgnsni

301 inavdgnhet llhraslfdh heladylisv gadinitdse grtplvlata saswnivnll

361 lskgarvdik dylgrnflhf tvqqpyglkn lrpefmqmqe ikalvmdedn dgctplhyac

421 kqgvhvsvnn llgfnvsiys kskdkksplh faasygrint cqrllqdisd trllnegdlh

481 gmtplhlaak nghdkvvqll lkkgalflsd hngwtalhha smggytqtmk vildtnmkct

541 drldeegnta lhfaaregha kavalllnhd adivlnkqqa sflhialhnk rkevvittir

601 nkrwdeclkv fthcspsnrc pitemieylp ecmkilldfc mipstedksc qdyhieynfr

661 ylqcplqftr klpaeqevhy eplstlnvmv qhnriellnh pvckeyllmk wcaygfrahm

721 mnlgsyclgl ipmtllvini kpgtafnstg iinethnqtd ttnsypikvc milvflssif

781 gyckeviqif qqkrnyfldy nnalewviyt ksiifvlplf vsipayvqwq cgaiaiflyw

841 mnflmylqrf enwgifivml evifrtllrs tgvfifllla fglsfyvlln aqdafrspll

901 slvqtftmml gdvnyrdtyl qpflknelty pvlsfvqlia ftmfvpivlm nlliglavgd

961 iaevqkhasl kriamqvelh tslekklpiw flrrvdqkst ivypnrpryg pvlrlfhyff

1021 gvqetrqelp ntdtclelem lkqkyrlkdl tsllekqhel ikliiqkmei isetedednh

1081 ssfqdrfkke rleqmnskwn fvlravktkp h

Beaver (Castor canadensis):

1 mkrslrkmlr paekkepqgv nyqgvgdsmd dsfkvdfegn tyrlqnfikn lkkvgkyedt

61 svsplhhaaa egqvelmrmi isgsscevln amddygntpl hwaaennqve svkfllsqga

121 npnlrnshmm aalhiavqgm hnemtkvlte hsstnvdleg engntavltt ctkdnsealq

181 illnkgaklc ksnkwgdypv hqaafsgatk cmelilkyge kcgysrqshi nfvnnkkasp

241 lhlavqsgdl emikmcldng ahidlkengk cmalhfaatq gateivklmi ssysgssdiv

301 navdgnhetl lhraslfdhh dladylisvg adinitdseg rsplilatas aswnivnlll

361 skgakvdikd hlgrnflhlt vqqpyglknl rpeflqmqhi kelvmdednd gctplhyacr

421 qgvpvsvnnl lgfnvsihsk skdkksplhf aasygrintc qrllqdisdt rllnegdlhg

481 mtplhlaakn ghdkvvqlll kkgalflsdh ngwtalhhas lggytqtmkv ildtnlkctd

541 rldeegntal hfaareghak avalllnyda dillnkqqas flhialhnkr kevvlttirs

601 krwdeclkvf mhcspcnkcp imemveylpe cmkflldfcm ipstedkscr dyhieynfry

661 lqcpleftrn ekpthevrye plsilnvmvq hnriellnhp vckeyllmkw caygfrahmm

721 nlgsyclgli pmtllvvnik pgmafnstgi inetnnhlek ldttnsypik vcmvlvflss

781 ifgyckeviq ifqqkrnyfl dynnalewii yttsiifvlp lfvsipayvq wqcgaiaiff

841 ywmnfllylq rfencgifiv mlevifktll rstgvfifll lafglsfyvl lnlqdafssp

901 llsivqtfsm mlgdinyrda flepflrkql ayptlsfaql ivftmfvpiv lmnlliglav

961 gdiaevqkha slkriamqve lhtslekklp lwflrkvdqk stivypnrpr hgkilrlfny

1021 ffgtqetrqe ipnadtclem eilkqkyrlk dltsllekqh elikliiqkm eiiseteded

1081 nhcsfqdrfk kerleqmnsk wnfvlkavkt kthspkh

Hedgehog (Echinops telfairi)

1 mkislstkvg dkqakvtfgk sacrlqsflk krcrsrgydd tdasplhhaa eagelelmem

61 ilnescceel nvmdnygntp lywatdknqv ksiqfllsrg anpnirnynm maplhiavqr

121 gynelvkvlv ehgstninle gengntavmf acskdnseal qfllnkgakp ciqnkwgcfp

181 ihqaafsgak kcmeiilkfg edhghsrnnh infvnngkhs plhmavqsgd lemikmcldn

241 gaqielmeng kctalhfaat qgateivklm iasysgdsdi vnavdgnqet llhraslfdh

301 helaeylisv gadinsidce grsplllata saswnivnll lskgahvdik dflgrnflhl

361 tvqqshglkn lqpefmqmkh ikelvmdedn ngctplhyac rqgvpvsvnn llhfnvsins

421 kskdkksplh faasygrint cqrllqdisd mrllnegdlh gmtplhlaak nghdkvvhll

481 lkkgalflsd hygwtalhha smggytqtmk vilntnlkct drldeegnta lhfaaregha

541 kavalllscg adivlnkqda sflhvaihnk rkdvvltair sqrweecfkv fshrsqsnkc

601 pvmemveylp ecmkvlldlc mlhstedksc rdyhieynfk ylqcpleftq tvrpekdvty

661 eplatlnamv qhnriellnh pvckeylcmk wlaygfkahi vnlgsyclgl mpmtflvvni

721 kpgmgfnstg iingtsdhse ildtqnsypi kvcmilvfls silgyckevs qifqqkmsyf

781 wdhsngvewi iyttslifvl plftgvpayi qwqcaaiaif fywmnfllyl qrxnqlesrl

841 qllhillsfy iffxflnvvf hfyivvfsxd afshpllsii qtfsmmlgdi nyrdsflepf

901 lrdelaypll sfiqlitftl fvpivlmnll iglavgdiae vqkhaslkri amqvklhtsl

961 ekklplcflq kvdqesiivy pnrprydggv irclfqyifs iketgqeapn vdtsleteil

1021 kqkyrlkdlt sllekqheli kliiqkmeii setededshs sfqdkfkkeq leqrnskwnc

1081 llkavksqgs

Ferret (Mustela putorius furo)

1 mrrslrkmls pgkqeepqga vyqgvendmd dskdslkvvf egstcrlknl lkkrkklsky

61 ddmnasplhh aaaeghvelm emiindssfe vlnvmddygn tplhwaaekn qvesvkflls

121 kganpnlrns smmaplhiav qslhnevmkv ltehsstdin legengntav iiacskdnse

181 alrillnkga qpcksnkwgc fpihqaafsg akkcmeiilk fgeehgysrq shinfvnngk

241 asplhmavqs gdlemikmcl dngaqlelme ngkctplhfa atqgateivk lmlssysgss

301 divnavdgnh etllhraslf dhhelagyli svgadinstd segrsplila tasaswnivn

361 lllskgarvd ikdhlgrnfl hltvqqphgl knlqpefmqm qhikqlvmde dddgctplhy

421 acrhgipvsv nnlldfnvsi hskskdkksp lhfaasygri ntcqrllqdm sdtrllnegd

481 lhgmtplhla aknghdkvvq lllkkgalfl sdhngwtalh haslggytqt mkvildtnlk

541 ctdqldeegn talhfaareg hakavallls ydadvvlnkq qasflhvaih nkrkevvltt

601 iknkrweecl kvfshyspsn kcpvmemvey lpecmkvlld cciipstgdk sckdyhieyn

661 ftylqcplef tkklipaqdv tyeplttlnv mvqhnriell nhpvckeyll mkwlaygfra

721 hvmnlgsyci gllpmtflvt sikpgmafns tgiinethdh seildtknsy fikvcmilvf

781 lssifgycke vvqifqqkrn yildnanave wiiyttsiif vsplfvgipa svqwqcgaia

841 iyfywmnfll ylqrfencgi fivmlevivk tllrstvvfv flllafglsf yvllslqdaf

901 stpllsiiqt fsmmlgdiny rdaflepflr nelaypvlsf iqiiaftmfv pivlmnllig

961 lavgdiaevq khallkriam qvelhtslek klplwflrrv dqksiivypn rprcsgllri

1021 fhflfhtket rqeipnvdts leieilkqky rlkdltslle kqheliklii qkmeiisete

1081 dednhssfqd rfkkeqleqr nskwnsvlka vktkthsplp

Chinchilla (Chinchilla lanigera)

1 mkrslrkllr sgekepqgva yqgvedgmpd skdfkvvfeg necrlqqfik nrwklnkyee

61 envsalhhaa gegelelmkm iisgsscevl nvmdnygntp mhwaaennqv esikfllsrg

121 anpnlrnssm maplhiavqg mhnemakvlt ehsstnvnle gengntavmi tcakdnseal

181 eillkkgakl cksnkwgdfp vhqaafsgak kcmelilkfg eedgysrqsh infvnnkqas

241 plhlavqsgn lemikmcldn gahiekteng kcmalhfaat qgateivklm issysgssdi

301 vnaldgnhet llhraslfdh heladylisv gadinitdse grsplvlata saswnivnll

361 lskgakvdik dhlgrnflhf tvqqpyglkn lrpefmqmqe ikalvmdedd dgctplhyac

421 kqgvhvsvnn llgfnvsihs kskdkksplh faasygrint cqrllqdisd trllnegdlh

481 gmtplhlaak nghdkvvqll lkkgalflsd hngwtalhha smggytqtmk vildtnlkct

541 drldedgnta lhfaaregha kavalllnyd anivlnkqka sflhialhnk rkevvittir

601 nkrwdeclkv fthsspsnkc pimemieylp ecmkilldfc mipstedksc qdyhiqynfr

661 ylqcpleltk tltsdqevqy eplailnvmv qhsriellnh pvckeyllmk wcaygfrahm

721 mnlgsyclgl ipmtllvini kpgtafnstg iinetcdhle vldttnsypi kvcmilvfls

781 sifgyckevv qifqqkrnyf ldynnalewi iytksiifvl plfvnipayv qwqcgaiaif

841 lywmnflmyl qrfencgifi vmlevifrtl lrsagvfifl llafglsfyv llnvqdafst

901 pllslvqtft mmlgdvnyrd aylepflrne laypvlsfaq liaftmfvpi vlmnlligla

961 vgdiaevqkh aslkriamqv dlhtslekkl piwflrkveq rsivvypnrp rygrmlrlfh

1021 yffgiqetkq eipntdtcle lemlkqkyrl kdltsllekq helikliiqk meiiseteda

1081 dnhssfqdrf kkerleqmns kwnfvlravk tkphspkd

**Training Dataset:**

Mouse vs. Squirrel

Mouse vs. Beaver

Mouse vs. Guinea pig

Mouse vs. Hamster

Mouse vs. Hedgehog

**Test Dataset:**

Mouse vs. Chinchilla

Mouse vs. Ferret