Glycoprotein B alignments

>Mouse gB

MSRRNERGCRSSSWYAMSTALAVTIWCLLACTSEVIAAASTPGTTPKAKTDTSSETASAETETATSGAATGKKEATPTQASKITGTTIVPFVNETEDMVSVDIDKYPYRVCMAVSTDLVRFGKSIDCINHTPKTPVQEGIMVVYKENIVAYTFEVITYHKDAIFQRSYADTTTNYFLGTSVTKMAFPIWELDEVNRNNRCYSAASRILNGEVYVAYHEDSYRNYTMVLVEDDYRSKNSKRYVTTKSRYHKGAWTWRYTESCNMNCVVVVTKARSNTPYEFFVLSSGEVVEISPFYNGENSEPFEEDTRNFWIRKNYTMKTYFGELAAPKKVVPLMAFLEREDMTIGWEIFPKQNVTCDWKKWQTVSRAIRTDTNTSYHFVSKSLTATFVASKRKIDYNTTTEGKNYNTFRCVYDEFVEEVNRVFEDEYNETHVKDGELEMYRTTGGLIVLWQGLKAKSLHNLEKFAALNNVSVATASPPVTTAATENGTTVRSRRKRSFDNLDDVVTDISYAQLQFTYDVLKDYINDALRNIMDAWCRDQKRTAEMLKELSKINPSNILSAIYERPVTAKLAGDVIAMSECVKVDQSSVKVLKDMRIFQDGKVVNCYSRPLVVFQFINSTKLESGQLGENNEIMLGTFRTENCDTNSRKIFVVGTVGYEYRDYRFRNVTSLEHIDLVDTLIGLDIEPLENTDFKVLELYSKGELRASNVFSLDEIMREYNSQKQHIRTLSAKVNDNTPSYLLGLDTFMQGLGVAGKGIGVAIGAVGGAVSSVVNAVTGFLTNPFGGFTTILLVIGVLAVVYLIFTRQRSAAARPVEYFFPYATQTAVQYAPPGGAHGGLESGPPGAPGLHRRVNAGGSDDSGKAWTSDKKGLERTYTEQDALLILRALKQLDDSQRNEKAQQKATRLPTGILDRLKGNDTSGYQRLPAEDSDFEY

>Guinea Pig gB

MRPVRGIARSRILSCSWRGTWTSALTILYLGVYCESTTVTPTTVEDTTVSNGNHSDASRNNTVIRNLTASVDFSQRKLYPYRICSMSMGTDLVRFARTIQCVPFNPRVNSEEGIMLIYKRNILPYVFTAYTYQKELLFQRSYKYVTYDYLLGYSREFVALPMWEIFLVNSRGQCYTSHQRVIGADRYIAYHNDNEVNETMWLMRDDMGNDDTYRYITVKEHARTPGSVWLYKETCSMNCIVTKTKGKSKFPYDMFVLPSGVIVNISPFYNGSNGKTFREQREKFHIWSNYSILKDFGSRALEARIVPKMAFYEREDVVIGWEVNDQSNVTCEMILWETVDRAIRTEYENAFHYVARTLTSTFVENKYSPDNNLTEDDIKCFKNDAQKKIEEVFLRDYNETYDMDGNATYHVTTGGLVIVWQGLKQKSLKALEIAANESAVSATGSNSRRKRSLPDESTGDISYAQLQFAYDTLRTYINQALGHIAEAWCLDQKRTAEVLHELSKINPSNILSAIFGVPVAARVVGDVISLAKCIEVNQSTVLIKGDMRKFSDDGKLEGCYSRPVVWFSMKNSTEVRLGQLGEDNEILLGTHRMETCQTQDYRIFVAGDIGYEFQQYVFTKKINLSEIDIIDTMIALKTEPLENIDFKVLELYSRDELAQANVFDLESIMREYNYQKKRLDFVVERVINPIPPALKGLDEMMNGMGAIGKGIGEAVGAVGGAIGSFIGALVTFVTNPFGAFVVFLFCVGCITLVITVYRRQRRAMQRPFDYFFPYASQTITSSVADSSIAVAYPGPEGTSGDAPPPYPGEAPYGYKDLSVDADTRVSSSSAGAGADFNEEDAVRMLRAIKRLDDKKRQEIEKSSKDSASNKNSETRRRPGIMDRLRRRGGYQKLNTEDDVHV

>Human gB

MESRIWCLVVCVNLCIVCLGAAVSSSSTRGTSATHSHHSSHTTSAAHSRSGSVSQRVTSSQTVSHGVNETIYNTTLKYGDVVGVNTTKYPYRVCSMAQGTDLIRFERNIVCTSMKPINEDLDEGIMVVYKRNIVAHTFKVRVYQKVLTFRRSYAYIHTTYLLGSNTEYVAPPMWEIHHINSHSQCYSSYSRVIAGTVFVAYHRDSYENKTMQLMPDDYSNTHSTRYVTVKDQWHSRGSTWLYRETCNLNCMVTITTARSKYPYHFFATSTGDVVDISPFYNGTNRNASYFGENADKFFIFPNYTIVSDFGRPNSALETHRLVAFLERADSVISWDIQDEKNVTCQLTFWEASERTIRSEAEDSYHFSSAKMTATFLSKKQEVNMSDSALDCVRDEAINKLQQIFNTSYNQTYEKYGNVSVFETTGGLVVFWQGIKQKSLVELERLANRSSLNLTHNRTKRSTDGNNATHLSNMESVHNLVYAQLQFTYDTLRGYINRALAQIAEAWCVDQRRTLEVFKELSKINPSAILSAIYNKPIAARFMGDVLGLASCVTINQTSVKVLRDMNVKESPGRCYSRPVVIFNFANSSYVQYGQLGEDNEILLGNHRTEECQLPSLKIFIAGNSAYEYVDYLFKRMIDLSSISTVDSMIALDIDPLENTDFRVLELYSQKELRSSNVFDLEEIMREFNSYKQRVKYVEDKVVDPLPPYLKGLDDLMSGLGAAGKAVGVAIGAVGGAVASVVEGVATFLKNPFGAFTIILVAIAVVIITYLIYTRQRRLCTQPLQNLFPYLVSADGTTVTSGSTKDTSLQAPPSYEESVYNSGRKGPGPPSSDASTAAPPYTNEQAYQMLLALARLDAEQRAQQNGTDSLDGRTGTQDKGQKPNLLDRLRHRKNGYRHLKDSDEEENV

>Chimpanzee gB

MWAKIWCLVVCVSLLRTPSSGGVYGAPSSSSTSGQPPTPSVPGGSSSSGRTTTRTTQQESTTNGTEYIFNTTLRPDDVIGVNISKYPYRVCSMAQGTDLIRFDRNIHCTSVKPTKEDLDEGMMVVYKRNIQAHTFKVRVFQKVLTFRRSYAYIYSTYLLGSNTEYVPPPMWEVHFINNNGQCYNSYSKVMGDTVFVAYHEDSYENKTMKLIPDDYSNTHSTRYVTVKEQYHTRGSTWLYRETCSLNCMVTVTTARSKYPYHFFATSTGDVVDISPFYNKTNGKYFGENADKFYLIANYSMVEDYGQWNSHKKTHKLVAFLERGDSVLSWDVEDENTTCQYAYWESSDRTIRAETHDSLHFTSSKMTATFLSKKTPVNISDPGLACIKDKALTQLETMFNSSYNETYVKHGKVEVFETTGGLVVFWQGIKQKSLADLEDFAKIQNETLERMRNGTRHKRDTSTSQLSYNSTDVIHNVMYAQLQFTYDTLRNYINKALAQIAEAWCVDQRRTLEVFKELSKINPSAILSAIYDKPIAARFMGDVLGLAQCVNINQTSVKVLRDMHTKEKGRCYSRPVVMFTFVNSSHVQYGQLGEDNEILLGNHRTEECQLPSLKIFIAGNSSYEYVDYMFKRMIDLSTIATVDSMIALDINPLENTDFRALELYSQQELRSSNVFDLEDIMREFNSYKQRVKYVEDKVVNPLPPYLKGLDDLMSGLGSAGKAVGTAIGAVGGAVASVVEGVAAFLKNPFGAFTIILVALAVLVIIYLIYTRQRRMYMQPLEQLFPYMIQSRSSSTTVTSTSDAPSSSNQAPPSYEDSVYNSGHKSATTSVQPYTTEQAFQMLLALQRLDAQHRPQKHKGAPNIVVAPSAPPMSRDNNGASSEDNSSNKKQQPQQKPPKPNLLDRIRHRKNGYQHLGSEEDV

>Rhesus gB

MSKNWFPLLCASVLVVYVAIASSSTGTASGAVTPTSPTENTTGPLIENTTLRTHEVFQINMSKFPYRVCSMAQGTDLLRFEQNINCDSFKPTKEDFEEGIMVVYKRDIRPYTFKVHMYQKILTFRQSYSFIRENHLLGFSQEHLAVPMWEVHYINKLNRCYNSVVRNVAGATYVNYHRDSYVNETMLLVEDDFSNTHSSRFVTVKELWHKPGSTWLYTTSCNVNCMVTVTTARSKYPYDFFVTSDGKFVDISPFYNGSNDKHFGENRDKFSVRKNYSMIAYYGRDNAPEVAHPLVGFFERPDVLMSWDIVEEANHTCEYTFWEQSERTIRSEADDTYHYTSSSMTATFLTSKEELNESDPSFQCIKDKANEQLQRIFNTSYNETYVQSGNVSMYATTGGLIVFWLPVKEKSIVEMEELTTEYYKNNTSSSTRRKRSTDSGAESNKTSEEVLKSIVYAQLQYTYDTLRNYINRALRQIAEAWCKDQRRTLEVFKELSKINPSAMLSAIYDKPIAARFVGDVISLAKCVEVDQNSVKVLRDMRTKESGVCYSRPVVLYTFKNSSHVQYGQLGEYNEILLGRHRTEACEYPSLKIYIAGNSSYEYVDYLYKRMIPLDSISTVDTMISLDIDPLENTDFKALELYSEDELRSSNVFDLEDIMREFNTYKQRMIHVEGKVFDKVPGYLRGLDDMMSGLGSAGKALGVAIGAVGGAVASFVEGVVGFIKNPFGSFTVILFLLAVLGVIYLIYMRQKRAYEKPFEHFFPYVVPPTTVKEAPPSYEQSQYENIKEKAASATKEFSLEEAYQMLLALQKLDQEKRRKAEADDEDFASNGQSAGFLDRLRNRRRGGYQKIQNEYEV

>Baboon gB

MNKNWFRLLYVSLWAACVVSVASTTNTSNASVATSTHAASLNSASQLSSTTPRPINMTTGPLIDNTTIRTHEVIKANVSKFPYRVCSIAKGTDFLRFEQNIQCESFKPTKDDFDEGIMVVYKRDIRAYTFKVNVYRKVLTQRQSYSYIYMNYMLGQTVEHLPIPMWEVHYVNRINRCYNSVKRQLAGEWYEVYHKDSYVNETMLLLEDYSNTHSSRYVTVKELWHKPGSTWLYTTSSNVNCMVTVTTARSKYPYDYFVTSSGEVVDISPFYNGSNNKHFGENRDKFHVIKNYSMVQYYGRENVPLVAHDLVAFFERADSMMSWDVLDEGNSTCQFTFWEKSDRTIRSEAEDTYHFTSNSMTATFLTKKTPVNDSDPALNCIKEQAEKKIEEIFNTTYNSTYVKAGNVTIYETTGGLIVFWLPVKEKSIWDMKKLADGYANITNATASSRVKRSTDDSTLLNNTEVIHNIVYAQLQFTYDTLRNYINRALRQIAEAWCKDQKRTLEVLKELSKINPTAMLSAIYDKPVAARYAGDVISLAKCVEVNQTTVQVMRDMHVKDQQGLCYSRPVVLYRFYNSSHVQYGQLGENNEILLGRHRTEACEIPSVKIFIAGNTSYEYVDYLFKREVPLNSIPVVETMISLDIDPLENTDFKALELYSEDELRASNVFNLEEIMQEFNAYKQRVVHVEGKVFDTVPTYLRGLDDLMSGLGVAGKALGVAIGAVGGAVASFVEGIVGFIKNPFGSLTVILFLLAVLGVIYLIYMRQKRVYQQPIQQLFPYIAPPPAPAKETTPPPSYEESLYASIKEKSSSVKEFSSEEAFQMLLALHKLDVEKREKLKEESEKAASQSGKVGLLDRVRHRRRGYKPVEENEYEV

AD6 alignments

>Human AD6

VIFNFANSSYVQYGQLGEDNEILLGNHRTEECQLPSLKIFIAGNSAYEYVDYLFKRMIDLSSISTVDSMIALDIDPLENTDFRVLELYSQKELRSSNVFDLEEIMREFNSYKQRVKYVEDKVVDPLPPYLK

>Chimpanzee

VMFTFVNSSHVQYGQLGEDNEILLGNHRTEECQLPSLKIFIAGNSSYEYVDYMFKRMIDLSTIATVDSMIALDINPLENTDFRALELYSQQELRSSNVFDLEDIMREFNSYKQRVKYVEDKVVNPLPPYLK

>Rhesus

VLYTFKNSSHVQYGQLGEYNEILLGRHRTEACEYPSLKIYIAGNSSYEYVDYLYKRMIPLDSISTVDTMISLDIDPLENTDFKALELYSEDELRSSNVF DLEDIMREFNTYKQRMIHVEGKVFDKVPGYLR

>Baboon

VLYRFYNSSHVQYGQLGENNEILLGRHRTEACEIPSVKIFIAGNTSYEYVDYLFKREVPLNSIPVVETMISLDIDPLENTDFKALELYSEDELRASNVFNLEEIMQEFNAYKQRVVHVEGKVFDTVPTYLR

>Mouse

VVFQFINSTKLESGQLGENNEIMLGTFRTENCDTNSRKIFVVGTVGYEYRDYRFRNVTSLEHIDLVDTLIGLDIEPLENTDFKVLELYSKGELRASNVFSLDEIMREYNSQKQHIRTLSAKVNDNTPSYLL

>Guinea pig

VWFSMKNSTEVRLGQLGEDNEILLGTHRMETCQTQDYRIFVAGDIGYEFQQYVFTKKINLSEIDIIDTMIALKTEPLENIDFKVLELYSRDELAQANVFDLESIMREYNYQKKRLDFVVERVINPIPPALK

Sequence alignment

1. Find sequences from GenBank search for glycoprotein B below
2. Put it into Aliview
3. Align sequence
4. IQtree
5. Figtree for phyolgentic tree