

Identity

1 10 20 30 40

Fukomys anelli
Heterocephalus glaber
Octodon degus MCYYLHS
Mus musculus
Rattus norvegicus
Cricetulus griseus MCVASWACAL TCHWYLFKRFTTIPYSSINTPSNTFFS FVNQDHLHS
Otolemur garnettii MCYYLPSY
Gorilla gorilla
Pan troglodytes
Homo sapiens MOGQGRRRGTCKDIFCS
Canis lupus MCVHFFPS
Bos taurus
Ovis aries
Sus scrofa
Equus caballus
Orcinus orca MCYYPPS
Echinops telfairi

Identity

50 60 70 80 90

Fukomys anelli MSIFLYI THFLLGLHAT TNGAPPRSSSEGGKVTTCYIP OOND TLYKM
Heterocephalus glaber MSVFLYI TFLVGLHAT TNGAPPSSEGGKVTTCYIP OOND TLYKM
Octodon degus RMSIFLYI TFLVGLHAK ISGGLPSRSEGGKVTTCYIP OOND TLYKM
Mus musculus MSVFFYI FVLLVGLQAT THCAPHNSSSEGGKVTTCYIP OONATLYKM
Rattus norvegicus LVLGLQAT THCAPHNSSSEGGKVTTCYIP OONATLYKM
Cricetulus griseus RMSVFLYI FLLVFLQDT TNC AQYNSSEGGKVTTCYIP OONATLYKM
Otolemur garnettii KMSLFLYI TLLVGLHVT THCAPLNSSEGGKITTCYIP OONATLYKM
Gorilla gorilla MSPFLYI VLLVGLHAT THCA --- SP EGKVTACHSSOPNATLYKM
Pan troglodytes MSPFLYI VLLVGLHAT THCA --- SP EGKVTACHSSOPNATLYKM
Homo sapiens KMASYLYGVI FAVGLCAPTYCVSP -ANAPSAAYPRPSS TKSTPASQV
Canis lupus KMPFLYI AALLVGLHCASSI --- RSEGGKVTTCNSPPKNA TFYKM
Bos taurus MPLFFSI VLLVGLHCAPPN --- SCEGGKITTSCLSP OONATLYKM
Ovis aries MPLFFSI VLLVGLHCAPPN --- SCEGGKITTSCLSP OONATLYKM
Sus scrofa MPLFFSI VLLVGLHCAPPN --- SCEGGKITTSCLSP OONATLYKM
Equus caballus MPLFFSI VLLVGLHCAPPN --- SCEGGKITTSCLSP OONATLYKM
Orcinus orca KMPFLFFYLV FLLVGLHCAPPN --- SCEGGKITTSCLSP OONATLYKM
Echinops telfairi MPPSLLYKV FLLVGLHVT THCAPSNSSSEGGVTTCYIP OHNV TLYKM

Identity

100 110 120 130 140

Fukomys anelli SSINADFA FNL YRKF TWE TPDONIFFS PVS ISAALAMLS FGAGSST
Heterocephalus glaber SSINADFA FNL YRKF FAV ETPDONIFFS PVS ISAALAMLS FGAGSST
Octodon degus SSINADFA FNL YRKF FAV ETPDONIFFS PVS ISVALAMLS FGAGSST
Mus musculus PSINADFA FNL YRRLF S M ENPDINIFFS PVS ISVALAMLS FGAGSST
Rattus norvegicus PSINADFA FNL YRRLF S M ENPDINIFFS PVS ISAALAMLS FGAGSST
Cricetulus griseus PFINADFA FNL YRRLF S M ENPDWNIFFS PVS ISAALAMLS FGAGSST
Otolemur garnettii SSINADFA FNL YRRLF T ETPDRNIFFS PVS ISAALAMLS FGAGSST
Gorilla gorilla SSINADFA FNL YRRLF T ETPDKNIFFS PVS ISAALVMLS FGAGCST
Pan troglodytes SSINADFA FNL YRRLF T ETPDKNIFFS PVS ISAALVMLS FGAGCST
Homo sapiens YSLNTDF FNL YRRLF T ETPSQNIFFS PVS MSTSLAMLS LGHGSMT
Canis lupus SSINADFA FNL YRRLF TWE TPDNRNIFFS PVS ISAALAMLS FGACYSST
Bos taurus SSINADFA FNL YRRLF TWE TPDONIFFS PVS ISAGLAMLS LGACSSST
Ovis aries SSINADFA FNL YRKF TWE TPDONIFFS PVS ISAGLAMLS LGACSSST
Sus scrofa SSINADFA FNL YRRLF TWE TPDONIFFS PVS ISAALAMLS FGACSSST
Equus caballus SSINADFA FNL YRRLF TWE TPDNRNIFFS PVS ISAALAMLS LGACSSST
Orcinus orca SSINADFA FNL YRRLF TWE TPDONIFFS PVS ISAALAMLS TGACSSST
Echinops telfairi SSINADFA FNL YRRLF TWE TPDONIFFS PVS ISAALAMLS HGASSNT

Identity

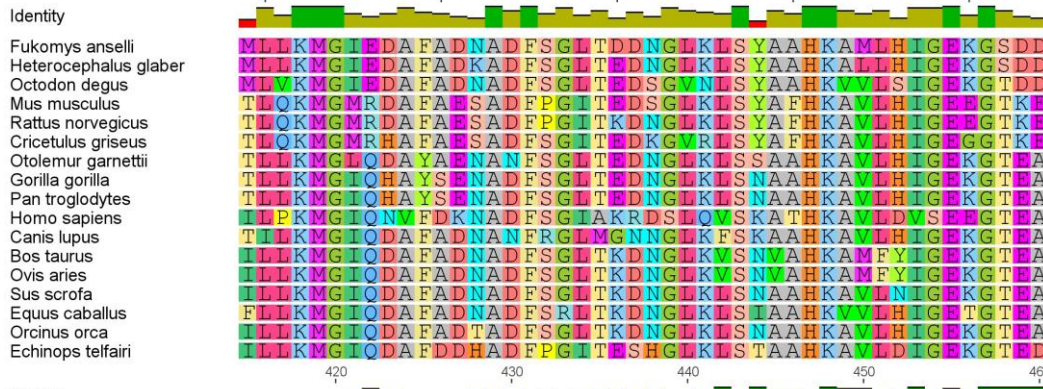
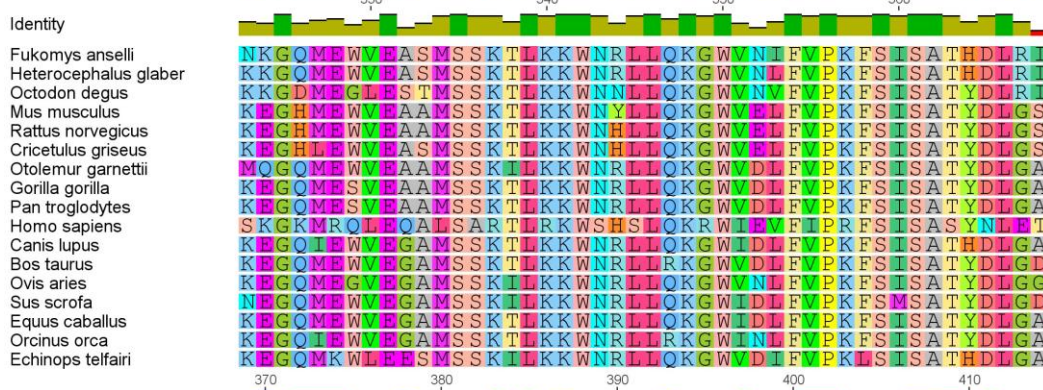
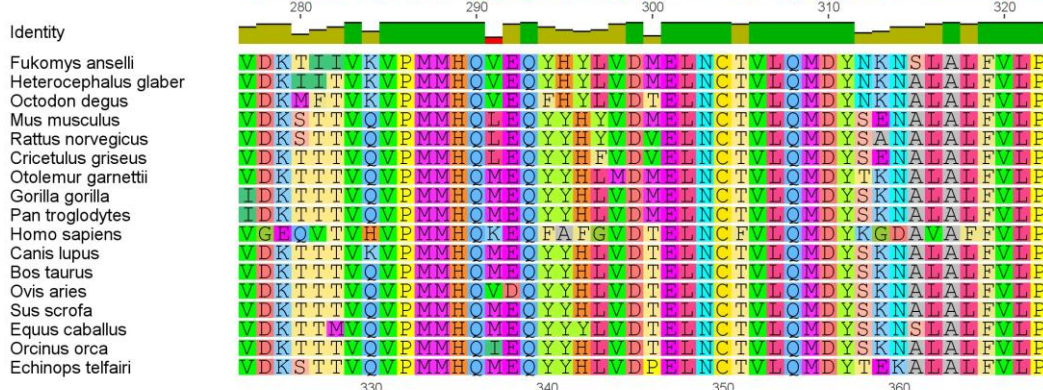
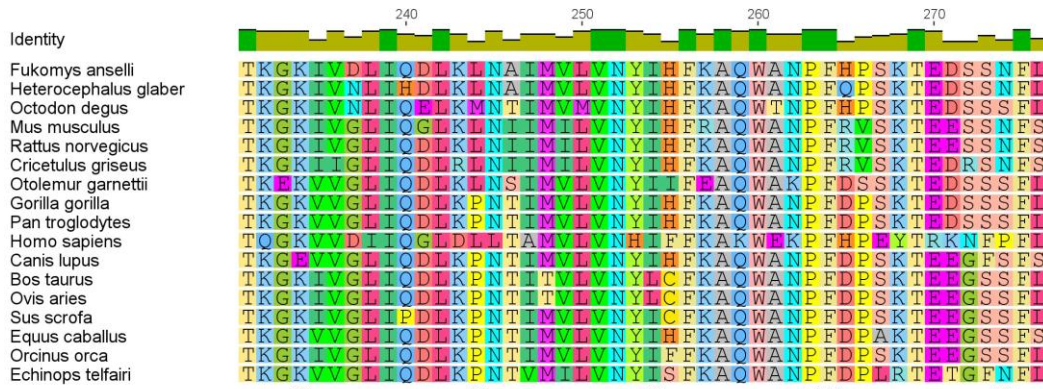
140 150 160 170 180

Fukomys anelli QTOILEV LGFNLT DTSMAEIQOGFOHLICSLNFPKKELELOMGNAL
Heterocephalus glaber QTOILEV LGFNLT DTSMAEIQOGFOHLICSLNFPKKELELOMGNAL
Octodon degus QTOILEV LGFNLT DTSMAEIQOGFOHLICSLNFPKKELELOMGNAL
Mus musculus QTOILEV LGFNLT DTPMTELQOGFOHLICSLNFPKNELELOMGNAL
Rattus norvegicus QTOILEV LGFNLT DTPMTELQOGFOHLICSLNFPNNELELOMGNAL
Cricetulus griseus QTOILEV LGFNLT DTPMTELQOGFOHLICSLNFPKNELELOMGNAL
Otolemur garnettii QTOILEV LGFNLT DTPMTELQOGFOHLICSLNFPKNELELOMGNAL
Gorilla gorilla QTEIVV T LGFNLT DTPMTELQOGFOHLICSLNFPKKELELOMGNAL
Pan troglodytes QTEIVV T LGFNLT DTPMTELQOGFOHLICSLNFPKKELELOMGNAL
Homo sapiens KTOILVQ LGFNLT DTPMTELQOGFOHLVHSITVPSKDI T LKMSAAL
Canis lupus QTOILEV LGFNLT DTPMTELQOGFOHLICSLNFPKKELELOMGNAL
Bos taurus QTOILEV LGFNLT DTPMTELQOGFOHLICSLNFPKKELELOMGNAL
Ovis aries QTOILEV LGFNLT DTPMTELQOGFOHLICSLNFPKKELELOMGNAL
Sus scrofa QTOILEV LGFNLT DTPMTELQOGFOHLICSLNFPKKELELOMGNAL
Equus caballus QTOILEV LGFNLT DTPMTELQOGFOHLICSLNFPKKELELOMGNAL
Orcinus orca QTOILEV LGFNLT DTPMTELQOGFOHLICSLNFPKKELELOMGNAL
Echinops telfairi QTOILEV LGFNLT VV S M A E I Q O G F O H L I C S L N F P K K E L E L O M G N A I

Identity

190 200 210 220 230

Fukomys anelli FIGKKLKP LK PFLDVK TLYETDVFSTDFS NVSAAQQA INSVKQR
Heterocephalus glaber FIGKKLKP LK PFLDGVK TLYETDVFSTDFS NVSAAQA INSVKQR
Octodon degus FIGKQLKP LK PFLDAMK TLYETVVFSTDFS NVSAAQA EINSVYKQR
Mus musculus FIGQQLKP LAK FLDDVK TLYETEVVFSTDFS NVSAAQHQ INSVYKQR
Rattus norvegicus FIGQQLKP LAK FLDDVK TLYETEVVFSTDFS NVSAAQA EINSVYKQR
Cricetulus griseus FIGQHLP LK PFLDVK TLYETEVVFSTDFS NVSAAQA EINSVYKQR
Otolemur garnettii FIGQQLKP LAK FLDDAK LYE T D V F S T D F S N V S A A Q Q E I N S V M E K K
Gorilla gorilla FIGKHLKP LAK FLDDVK TLYETEVVFSTDFS NISAAQA EINSHVEMO
Pan troglodytes FIGKHLKP LAK FLNDVK TLYETEVVFSTDFS NISAAQA EINSHVEMO
Homo sapiens FMKKFLQ LQA N FLGNV K R L Y E A E V F S T D F S N P S I A Q A R I N S H V K K K
Canis lupus FIGKQLKP LK PFLDDVKS LYE T E V F S T D F S N V S A A Q Q L I N S H V Y K Q R
Bos taurus FIGKQLKP LK PFLDDVKS LYE T E V F S T D F S N V S A A Q Q E I N S V M E K K
Ovis aries FIGKQLKP LK PFLDDVKS LYE T E V F S T D F S N V S A A Q Q E I N S H V E R Q
Sus scrofa FIGKQLKP LK PFLDDVKS LYE T E V F S T D F S N V S A A Q Q E I N S H V E R Q
Equus caballus FIGKQLKP LK PFLDDVKS LYE T E V F S T D F S N I S T A Q Q E I N S H V Y K Q R
Orcinus orca FIGKQLKP LK PFLDDVKS LYE T E V F S T N F S N V S A A Q Q E I N S H V Y K R K
Echinops telfairi FIGKQLKP LK PFLDDVKS LYE T E V I S T D F S N V S A A Q Q E I N S H V D K Q



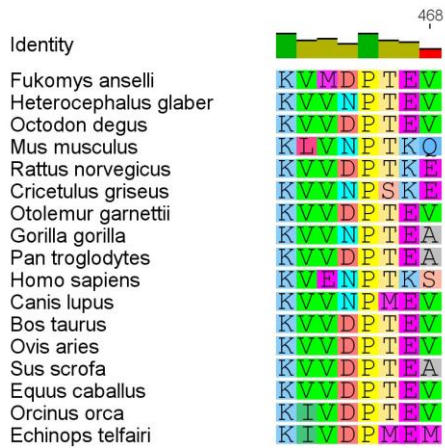


Figure S9. Protein alignment of thyroxine-binding globin (TBG) from different mammal species.

The mRNA sequence of *F. ansellii* was obtained from RNA-seq and subsequently translated, other sequences were retrieved from NCBI databases with the following accession numbers: *Heterocephalus glaber* (EHB09876), *Octodon degus* (XP_004646260), *Mus musculus* (P61939), *Rattus norvegicus* (AAA42205), *Cricetulus griseus* (ERE65740), *Ootlemur garnettii* (XP_003801681), *Gorilla gorilla* (XP_004064693), *Pan troglodytes* (NP_001009109), *Homo sapiens* (NP_783866), *Canis lupus* (XP_538128), *Bos taurus* (AAI03464), *Ovis aries* (NP_001094390), *Sus scrofa* (Q9TT35), *Equus caballus* (XP_001493492), *Orcinus orca* (XP_004285286), *Echinops telfairi* (XP_004710081).