```
                   1         10        20        30        40        50        60
H_sapiens          MDD.FERRRELRRQKREEMRLEAERIAYQRNDDDEEEAARERRRRARQERLRQKQEEESLGQVTDQVEVN
G_gallus           MDD.FERRRELRRQKREEMRLEAERLSYQRNDDDEEEAARERRRRARQERLRQKEEGDVSGEVTEKSEVN
caldlb             MNS.Y.......................DDDEEAARERRRRARQERLRNMENEESTSNVTVFSTET
caldla             MDDDFERRRELRRQKREEMRLEAERMAYRRSEEDEEEAARERRRRARQERMRSKDSEDVAFQPETPELNN
consensus>50       M#d.%errrelrrqkreemrleaerlayqrnd#D#EEAARERRRRARQER$Rqk#ee#v.g#vtd.sevn

                 70        80        90       100       110       120       130
H_sapiens          AQNSVPDEEAKTTTTNTQVEGD...DEAAFLERLARREERRQKRLQEALERQKEFDPTITDASLSLPSRR
G_gallus           AQNSVAEEETKRST......D...DEAALLERLARREERRQKRLQEALERQKEFDPTITDGSLSVPSRR
caldlb             SSLINSSEPAED.......D...DDQALLERIAKREERRQKRMKEALERQKELDPTITNGTESTSA..
caldla             SHSVTVSESISTSVLSSSGTGEGDEEEQALLERLAKREERRMRRMKEALERQKE............
consensus>50       aqniv.dEeaktst......g#...##qAlLERlAkREERRqkR$qEALERQKEfdptitdgsls.psrr

                140       150       160       170       180       190       200
H_sapiens          MQNDTAENETTEKEEKSESRQERYEIEETETVTKSYQKNDWRDAEENKKEDKEKEEEEEEKPKRGSIGEN
G_gallus           EVNNVEENEITGKEEKVETRQGRCEIEETETVTKSYQRNNWRQDGEEEGK.KEEKDSEEEKPKEVPTEEN
caldlb             ...ATENEPNTRRDDQESSRN....DLTSTETNSWKEKEELKVEEKLQE..RNVDVEETVPVQEETVPE
caldla             ..........................DEEESSSSSLRRGRSYEPEEHHNNNNNQEEKEEEKQEEEEEEED
consensus>50       ..nd..ene.t.keek.esrqer.ei#etetvtkSyqrndwrd.eEn.qedkeee#.EEekpkeeetee#

                210       220       230       240       250       260       270
H_sapiens          QVEVMVEEKTTESQEETVVMSLKNGQISSEEPKQEEEREQGSDEISHHEKMEEEDKERAEAERARLEAEE
G_gallus           QVDVAVEKST...DKEEVVETKTLAVNAENDTNAMLEGEQSITDAA......DKEKEEAEKEREKLEAEE
caldlb             EPKASLEEINKPDDEDRPTRSYLREQESMEEKPKEPTNKEESVSAIIEIK.EQTNRDLASADLELKKVED
caldla             VRCREEEEEEEQRVEEKQQRSYLRERESVEEISKIPD...........EGNNERDAVASSEVREV..
consensus>50       qvev.vEe.n.e.de#.vvrsylreqes.##..kepe.eq.s.ea....k.eee#keeAeaere.levee

                280       290       300       310       320       330       340
H_sapiens          RERIKAEQDKKIADERARIEAEEKAAAQERERRREAEERERMREEEKRAAEERQRIKEEEKRAAEERQRIK
G_gallus           KERLKAEEEKKAAEEKQKAE.EEKKAAEERERAKAEE.......EKRAAEERERAKAEEERKAAEERAKA
caldlb             QSLIPEPANENKIEVEVKMEADTPKIEEEKLVMKEDVEK....PEEKLVEAKAQIQDEAPVKKEIEKLVK
caldla             .ILNEDVNDSQVVLEPDVENDASSVHQE...............................
consensus>50       .erikeeq#ek.ieee.kiEa#ekkia#Erer.kaee.......ekraaeerqrikeee.rkaeee..ik

                350       360       370       380       390       400       410
H_sapiens          EEEKRAAEERQRIKEEEKRAAEERQRARAEEEEKAKVEEQKRNKQLEEKKHAMQETKIKGEKVEQKIEGK
G_gallus           EEERKAAEERAKA.EEERKAAEER..AKAEKERKA.AEERERAKAEEKRAAEEKARLEAEKLKEK...K
caldlb             EQEK.PSEIVEETPKKSIKEIEVKAKIPKKEEEKPQLKKEFVEKPSTPLKKVEEKPLTPKKEAEEKI...
caldla             ....SSEIERLTENGVDEMREAENFEKDEAE.............................
consensus>50       eeek.aaeever..eeeikeaeerq.a.aeeeeka..eeq.rnk..eekk.aeek.....ek.eeki..k

                420       430       440       450       460       470       480
H_sapiens          WVNEKKAQEDKLQTAVLKKQGEEKGTKVQAKREKLQED.KPTFKKEEIKDEKIKKDKEPKEEVKSFMDRK
G_gallus           KMEEKKAQEEKAQANLLRKQEEDKEAKVEAKKESLPEKLQPTSKKDQVKDNK.DKEKAPKEEMKSVWDRK
caldlb             .VAPKKAVEEKTVTQ..KKEVEEKTFIPKKEVEEKPKWKKEAEEAKAKVEEKVKSKKEEVVEEKSKPSFL
caldla             .VSENEALMED.................................EDVMRKNKQP..............
consensus>50       .vnekkAqe#k.qtn.lkkq.eek..kvqak.e.lpe..kpt.kkeeik##kikkdKepkee.ks..drk

                490       500       510       520       530       540       550
H_sapiens          KGFTEVKSQNGE..FMTHKLKHTENTFSRPGGRASVDTKEAEGAPQVEAGKRLEELRRRRGETESEEFEK
G_gallus           RGVPEQKAQNGERELTTPKLKSTENAFGR.........SNLKGAANAEAGS.................EK
caldlb             RDRLKVSTKPQDLPDSTAKAKKQESTLS.PSRLRSPETEKQDPIAKLEAERKLQELKRRRNETDSEALEK
caldla             ..........NGGVCEDSPPKHKKAERTFSRGSLRSPEAPDADDEDARLEAERKLEELKRRRDEMESEEFEK
consensus>50       rg..evk.qnge.edstpKlKktEntfsrps.r.s.dteeqdgaaqlEAerkleelkrrrnetesee fEK

                560       570       580       590       600       610       620
H_sapiens          LKQKQQEAALELEELKKKREERRKVLEEEEQRRKQEEADRKLREEEEKRRLKEEIERRRAEAAEKRQKMP
G_gallus           LKEKQQEAAVELDELKKRREERRKILEEEEQKKKQEEAERKIREEEEKKRMKEEIERRRAEAAEKRQKVP
caldlb             MKQKQQTAEAELEELRKKREERKKVLEEEEKQKKQQQADKRAKEEEERRKMKEEIERRRAEAAEKKKQKE
caldla             MRQKQQEAEVELEELKRKREERRKVLEEEERRRKQDEADRKTREEEERRKRMKEEIEKRRAEAAEKRQKVE
consensus>50       $k#KQQeAevEL#ELkkkREERrK!LEEEEqrkKQ##A#rk.rEEEEkrr$KEEIErRRAEAAEKrqkve

                630       640       650       660       670       680       690
H_sapiens          EDGLSDDKKPFKCFTPKGSSLKIEERAEFLNKSVQKSSGVKSTHQAAIVSKIDSRLEQYTSAIEGTKSAK
G_gallus           EDGVSEEKKPFKCFSPKGSSLKIEERAEFLNKSAQKS.GMKPAHTTAVVSKIDSRLEQYTSAVVGNKAAK
caldlb             E...SKEGSKVAFIAPKGASAKIGEKAEFLNKSALKS.PIKTSH.TPLVCKIGNRLEQYTSAVQTKEVTK
caldla             DSVDGEARKPFKCVSPRGSSLKIGERAEFLNRSAQKS.SVKASH.TPVVSKIDNRLEQYTTAVQGNKEVR
consensus>50       #dg.seekkpfkcisPkGsSlKIeErAEFLNkSaqKS.gvK.sH.tavVsKIdnRLEQYTsA!qgnk.ak

                700       710       720       730       740       750
H_sapiens          PTKPAASDLPVPAEGVRNIKSMWEKGNVFS...SPTAAGTPNKETAGLKVGVSSRINEWLTKTPD...GN
G_gallus           PAKPAASDLPVPAEGVRNIKSMWEKGNVFS...SPGGTGTPNKETAGLKVGVSSRINEWLTKTPE...GN
caldlb             SPKSPV.DVPV.AEGLRSIKSMWEKGNVVNPTPSPASPPVATKETAGLNIGVAGRINSWKTKTPEPKPAE
caldla             SPRSGAIDLPMVTDGIRNIKSMFEKGNVFS...SGGSPASTNKDAAGIKVGVAGRINDWLNKTPE...TG
consensus>50       ppkpaasDlPvpa#GvRnIKSMwEKGNVfs...Spgspgtpnk#tAGlk!GVagRINeWltKTP#...gn

                760       770       780       790
H_sapiens          KSPAPKPSDLRPGDVSSKRNLWEKQ.SVDK.VTSPTKV.....................
G_gallus           KSPAPKPSDLRPGDVSGKRNLWEKQ.SVEKPAASSSKVTATGKKSETNGLRQFEKEP
caldlb             PKPAPEPEKTPAKTEQKPAEVTKPRGSWETKGSTPAKVFAAKSKFVTNGTRK.....
caldla             KMSGGRPADLKPGDVTSKRSLWENKGSSATKLSPS.........................
consensus>50       kspapkPsdlrpgdvsskrnlwekqgSvekk.ssp.kv.a...k..tng.r......
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