**Dataset S1.** Nucleotide and amino acid sequences of 40 *CaNF-Y* genes.

>*CaNF-YA01*

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>CaNF-YB08

MAGVREQDQYMPIANVIRIMRRILPSHAKISDDAKETIQECVSEYISFITSEANERCQRE

QRKTVTAEDLLWAMGKLGFDDYVQPLTFYLQRYRESEGEPASVRRTSALAMPPPQIQNAS

FSSIPIPNNNNNNCYSYGYGFDFDNQGFYRDDAGGGATSSNSGGAFIPNFDYCFPNLKRD

N\*

>CaNF-YB09

MEHGSPSSNHSRKAQSSSGSEKLRMPVTHLTRIMQRAIPAQAKISNGAKESMQFCVSEFI

TIITTEASERCKFEHRKIVTAEDLIWAMDKLGFEDYTGPLVFYLDNYRKNEAQFTAMAIA

HGLNKDASNSGSGNDQP\*

>CaNF-YB10

MSEKKKGKLPDRESFYKYNNNFMREEEEEDDDENIIREQDRLLPIANVGRIMKQILPPNA

KISKEAKETMQECVSEFVSFVTGEASDKCHKEKRKTVNGDDVCSAFSTLGFDDYAEPLKR

YLNKFRELDVQRSNQNKGGNIN\*

>CaNF-YB11

MKSGDGEKTLPIANVGRIMKQNLPPNAKISKESKELMQESVTEFISFVTGEASEKCQKEN

RKSVNGDDICWALCSLGFDNYAEAIGKYLYKYRQAQINTQDKIQ\*

>CaNF-YB12

MADATSPPRDHDSGGDQSPRGSSSAAREQDRFLPIANISRIMKKALPSNGKIAKDAKDTM

QECVSEFISFITSEASEKCQKEKRKTINGDDLLWAMATLGFEDYIEPLKVYLARYREIEG

DNKGSVRSGDGSGRRDQVSPVGQNAQLVQQGSFNYNGSQVHPQHLVMPSMQNHE\*

>CaNF-YB13

MEDEGHSNPANGVITSLESPYSKTCNKEQDRFLPIANVGRIMKKAVPSNGKISKDAKEAV

QECVSEFISFVTVEASDKCQKEKRKTVNGDDIIWAITTLGFDDYVDPLKFYLQKYKEIEG

EKLNVPKQQRSEQRLQQQYHTQDQNNVPLYVGDDQLFSLPFSPNSIQKQLQPQDQIDSVG

QWQE\*

>CaNF-YB14

MTGNKRINQTSPVGSPTSGNISDSSSSKEQDRFLPIANVSRIMKRALPANAKISKEAKET

VQECVSEFISFITGEASDKCQREKRKTINGDDLLWAMTTLGFENYVGPLKVYLNNYREIE

GEKSNSMVKQDDSSIEVVNDGVIGGFYSQQVNTNGSSKRFHEIGGGGDVETEHGSGNRII

PPNLCYRVEW\*

>CaNF-YB15

MDDESHNSSLPNGFNKGSPESPCLKTINNNNNNHHDHHNHNSNKEQDRFLPIANVGRIMK

KVIPPNGKISKEAKETVQECVSEFISFVTGEASDKCQREKRKTINGDDVIWAITTLGFED

YVDPLKCYLQKYRDIEGEKVNVPKQQRCEQRLLNQHQHQHHHYLNQDENNQHFNNSVYTS

TNLMSQPPYVTTDQPFPLPFSPNSIQKQLRPQDQIDSLGHWYE\*

>CaNF-YB16

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FISFVTSEASEKCRKERRKTVNGDDICWALGTLGFDDYAEPMRRYLIRYRELEADRNTNN

INVQDRGNSPQENDHELFMFPPRGSN\*

>CaNF-YB17

MRVVEGNGKRGLGSVCCPNRMRARTCSLILSNLLHKFIYQQPCFPSSLSSRISDLQLSLV

SGSIMEPMDIVGKSKEDASLPKATMTKIIKEMLPPDVRVARDAQDLLIECCVEFINLISS

ESNEVCNREDKRTIAPEHVLKALQVLGFSEYIEEVYAAYEQHKLETMDSLKGGKWSNAAE

MTEEEALAEQQRMFAEARARMNGGAIATKQPNGDQSLDT\*

>CaNF-YB18

MGESDDESGGQGSSGYRESLQERLLPIANVGRIMKKALPAKAKISKEAKETMQECVSEFI

SFITGEASEKCQKEKRKTINGDDLVWAMTTLGFEEYADSLKIYLLKYREIEGDKNLSVAI

IGKEHQATTTHRFFQR\*

>CaNF-YB19

MESSGGFHGYRKLPNTTTSGVIAGTLKLSMSEMNTRQQVGEQNNHTTTEQDNECTVREQD

RFMPIANVIRIMRKILPPHAKISDDAKETIQECVSEYISFITGEANERCQREQRKTITAE

DVLWAMSKLGFDDYIEPLTMYLHRYRELEGDRTTMRVETLGKRTSAMEYGSLGGFVPQFH

IGHPNGGYYGNPAPTMGNYNHHHTHTNNNNNNNATNAAGSSHSSHGGGIGNAEANGHHHH

HQYK\*

>CaNF-YB20

MADSDNDSGGPHNGGGSNAHGEMSPREQDRFLPIANVSRIMKKALPANAKISKDAKETVQ

ECVSEFISFITGEASDKCQREKRKTINGDDLLWAMTTLGFEEYVEPLKVYLQRFREMEGE

KCVAARDKDAPQSSNNVSNSSFESGSYGGGIMMHQGHVYGSGGFHQVGGTTVMGKGGPGY

SGPGSNAGRPR\*

>CaNF-YB21

MERGDSFIHYGQNSNSDSGSFMLQQSDVPSITEAPKNDGSVPQVAMQDKSTLPIKNVTTI

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NDYIEGLTLYAQRYRCSNGLGPMQPVVESPKPTLPSLPPSPDDVGPNSSMSPNTTIEMYD

AMDLDEFWAGLDDLGIGPSDNASTSFDTSVEFNFDSMFGEENDEMNH\*

>CaNF-YC01

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PTVPMVASGTPSIPDSVLQLAKQPEKHFHHQQKQQNPQQLQMMWENQMQEIQQIVDFKSF

TIPIGRIKRIMKADEDVRMIAQEALVVFVKACEMVTLELTLRSWIHAQEKKRNTLQKNDI

AAAIKSNYAFDFLEYSIPFPSGKLKEKAVVIANDTIPIMDPPSDLPYYHGPPQYPVGPTG

MIMGNPVSQAALNATQQPQLPVPFMPWLHAYPQQPQPPLPFMPWPYEHPQQQQQQPQ\*

>CaNF-YC02

MRQAGEYSSLLCGGMSRRTGPHSLPLARIKKIMKKSNEDVKMISGVAPIVFSKACELFIE

ELTKSSWNIAIDGKRRTLNKDDVASAVIATDNFDFLITLVSNSNSTLMEMENIT\*

>CaNF-YC03

MNQKRQEEEEEGNEETQSESESKQIVAISRPLIQTPGASAFSCYLNRDKLPKYFRHSILQ

QQKQQELKKKLENFWINQNHEIEESNNLGNHCLPLARIKKVMKSDEQVSMISAEVPVLFA

KACEMFIMEMTMRSWAHAEMNQKKTIQKSDIASAISSTDVFDFLVDIVPREEDTMDHEIF

RRRESVPYYYVPLPPHHAAPPGMFMGTPELLPNPNQENGDSSD\*

>CaNF-YC04

MDHQGHNQNPPMGVVGSGGQMTYGSNPYQPNQMTGAPGSVVTSVGGMQSAGQPAGAQLGQ

HQLAYQHIHQQQQQQLQQQLQAFWANQYQEIEKVTDFKNHSLPLARIKKIMKADEDVRMI

SAEAPVIFARACEMFILELTLRSWNHTEENKRRTLQKNDIAAAITRTDIFDFLVDIVPRE

DLKDEVLTSIPRGTMPVGGPADSLPYCYMPPQHAPQVGTAGVIMGKPVMDPNMYAQQPHP

YMAPQMWPQPPDQRPPSPDH\*

>CaNF-YC05

MDHQGHGQNPSMGVVGSGQMATYGSNPYQPNHLTGSPGMVVPSVGTIQSTGQPDGSQLGQ

HQLAYQHMHQQQQQQQQQQLQAFWGNQYQEIEKVTDFKNHSLPLARIKKIMKADEDVKMI

SAEAPVVFARACEMFILELTLRSWNHTEENKRRTLQKNDIAAAITGTDIFDFLVDIVPRE

DLKDEVLASIPRGTMPVAGPVDGLPYCYMPPQHAQQPGTAGLMMHNPNVYAPQSHPYMAP

QMWPQPPDQQQSSSDH\*

>CaNF-YC06

MENNNNNQQQYPTPQPSAVTPAAPFQHLLQQQQQQLQMFWSYQRQDIEHVNDFKNHQLPL

ARIKKIMKADEDVRMISAEAPILFAKACELFILELTIRSWLHAEENKRRTLQKNDIAAAI

TRTDIFDFLVDIVPRDEIKDESTIVGATASGVPYYYPPMGQPAGMMIGRPAVDPATGVYV

QPPSQAWQSVWQTGADDSSYTAAGSSGQPNADG\*

>CaNF-YC07

MKKKLDTRFPAARIKKIMQADEDVGKIALAVPVLVSKALELFLQDLCDRTYEITLQRGAK

TMNALHLKHCVQSYNVFDFLRDIVGRVPDYGHGHSHSEAGADDRAVPKRRKAAAGDDGND

SDEETKRSKMLELSHTGGTGRGRGRGRGRGRGRGARTAEKETFHQQVESEPCTSIQQSSK

EVPDASMAIDNVPEQKDLPKENNNAVHEESTQSLRNIDLNANLHENEDKLNTDTTITQAS

LPEPAATTTTDMQHEEIPGWSLSDVDKMAIDTLQLAANINSRIEEDEEDYDEEEG\*

>CaNF-YC08

MVVVMAEEEEKTLSIEPEFPRSRVKKIMTLDEDVKRVSSEALFLVSRSTELFLHLLAEKS

AQVAIEKKRKTVKLEHIRIAVKRHRPISDFLLDSLPMPSETVKSDKPVQDADRPKSVPDG

TRRIDHIFRKSEAQAQVEAQEPEPEPMEES\*

>CaNF-YC09

MLIRPSIRFETRFEQKAKNKNPVFETMTVVRKVLLSSSSSMASSNNSIAENKKSKNTETS

TPTSKIKKERDIEKSKEKKKNSKNKKLKLSNGNSKEHEEDKGKQREHEVEEGGGEGEEEA

KTHVFPMNRIRTILKGEISDLRVSQEAILAINKATEKFLEQLAQEAYACSVQNRKKSLSY

NHLSHVVSKQRRYDFLSDFVPEKVKAEDALRETDSRGNR\*

>CaNF-YC10

MRQAGAYSKLLCGGISRRTGPHSLPLARIKKIMKKSSEDVKMISGVAPIVFSKACELFIE

ELTRRSWNIAIDGKRRTLNKDDVASAVIATDLFDFLIDLVSNSHANLVAGECVASNTNVF

DSIF\*

>CaNF-YC11

MKKKLDTRFPAARIKKIMQADEDVGKIALAVPVLVSKALELFLQDLCDRTYEITLQRGAK

TMNSLHLKHCVQSYNVFDFLKDVVSKVPDYGHGHGHTDAGAADDQAISKRRKAIGDDCND

SDEEAKRGKMVELSHASPTGRGRGRGRGRGRGRGRGSRATLREGHLPETESEPFPPVQQV

NQHTTDTNVEGKHDDVTHSESKEELPKENIVAPVENSDSLRNIDLNANMNETDDKKASAV

ANPAPAATNPAPTTANTSLSEPPHIDDSNHEEMPGWSLSEVDKMAIDSMQLAQLGTRMEE

DDEDYDEEG\*