

File S1

Protein sequences of PvNF-Ys and AtNF-Ys

>PvNF-YA01

MRSAAAMCFQEHGLAFQVVADGGRGHGGGATAAPWWATTAQGFAAKFPISFSSGSDPPQDHKYHEPSAAGMAAYPELHKYHGPFDLAFGQSMVWSNNAAGAGQRQSYGLYSPYGAQAMHGRVLLPPAVAAKEPVYVNAKQFKGILRRRLARARAARDLRASRNRKPYLHESRHLHALRRARGSGGRFLNTRSLAAGDPAPPGGPEPTEDSASKAATLHPVQDRQDVFHSSLTNMAGDGDGRWACAAPRRCRDLLKA

>PvNF-YA02

MPKLLREVEDHPVHPMSKSNHGFLSGNGHEMKHLGHKIHDKDSSSESGQSHQEAPAVSESSLNENTSTQSDNDEGHGKHNQDTEHSVLSMGKQGS AFLPPKLDYNPSFACLPTAD AYYGGVLPGYPPHAIIVHPQQNHTTNAPVMLPVEAAEEPIYVNAKQYHAILRRRQTRAKLEAQNKLKGRKPYLHESRHRHAMKRARGSGGRFLNNTKQLQEQQHQASGSSSS KFIGNSISSQSDPTPTPSTPASSDTASASRVNQDHNCFPSVGFPRPAMNFSAPGGDGAKLVS

>PvNF-YA03

MLLPSSSSSSASKGNSLRKTVIDNMRSTLSFENKQPLFASQAIDYQPIACISYPYNDSGSGGVWAAYGSRSSSTVFHPQIAGGGTSARIPLPLELAENEPIYVNPQYHGILRRRQFRAKLEAQNKLKARKPYLHESRHLHAMKRARGSGGRFLNNTKQLQQPRNASTRSTNGTASSSGSTHLRLGGGTARDQTM LAPKAMP SQYNSKKAVSSAPGFTVTPMLHRDDTFFQHP SHLSFSGHFGQASQAQAGMHNGTQQRVPV MR

>PvNF-YA04

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>PvNF-YA05

MMSFRSHEGFGQVPAGATSNAAVPPWWAPAPQLLLYGDALGQGVKVPPEQAPCREARFQVVPGAQAPLGPVQPPAKAAAERGLPVLFKFSVAQKGEKGESEHSASVALPSPFAIYNGRFELGLGQSTVSVNSPYVDQHCGLISSYPVGAMPGGCMRIPLNMPTEAPIYVNAKQYEGILRRRRARAKAERENRLVKARKPYLHESRHLHALRRARGSGGRFLNNTKESNTKDAGGDGKAMFSNPLMRQVAPSPSEIQSDLDGNPSSVSSLSGSEVSSIYDHEDVDHFHFSDFHIRTFFFTPLPSIMDSEHG VGNPFKWPIASEGCCDLLRA

>PvNF-YA06

MLPPLHTENGTIMIQFGHQMPDYNPATQSTSESHQEVSVMSEGLNDHNDQSGNHDGYSKSDENKMMSALS LGNPETAYAHPKTDRSQSFAISYPYADSYGGAVAAYGQHAIQMHQPLVSMVSSSRVPLPIEPAEEPIYVNAKQYHAILRRRQLRAKLEAENKLVKSRKPYLHESRHLHAMKRARGTGGFRFLNNTKQSDSPGGTSDAQRMPANGGLFTKHEHSLPPGDRHYHARGGV

>PvNF-YA07

MMPSGNKMLLQEMDGDPFHTMQNYDFLSGNGYSMKQLIHSNSDKDSSSTKSEQRQDLSTVSDSSLNGQHTPTQSDNNDSCGKRDQGMVKTILSFGNPEVAFSTQKFDHSQPFACASYTADPYCGALTGYTSNAIVHPQINVAANSRVPLPIEPAEEPIFVNAKQYHAILRRRQMRRAKLEAQNKLKGRKPYLHESRHRHAMKRVRGPGGRFLNKKELQEQQQKALPSLQTPTGGAGKMALCRNNLCSSENSASHSSSTSSGISIVSNGGGMVAHHEHISFSTSLPGMNFHAENGGEKMAVHGVHRRTPS

>PvNF-YA08

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>PvNF-YA09

MMSFKGHEGLGQVAAGSQASHVAAGAPLPWWAGPQLIYGEPAPLSPEETRRDGHFQVVPGAQGGTDPAPPAATKRGNEVLKFSVVFQGNLESQGGKGDKNPEHSTTIALQSPFPEYNGRFEIGLGQSMVPSNYSCDDQCYGLTTYGMRSMSGGRMMLPLNAPADAPIYVNPQYEGILRRRRARAKAERENRLAKGRKPYLHESRHLHAMRRARGSGGRFVNTKKEGGASANGASKTVSAAAPARLATSPTSTEPRRVPLGKGS DGSNPRCQSRSSVSSLSGSEVSSIYDDHASRHQYGGMEPHLRAPSFFTPLPAIMDGDHGGAAAIPSFKWAASDGCCELLKA

>PvNF-YA10

MRSAAAMGFQEHGLAFQVITDGGGGATAAPWWAAAAAPQGFAAKFPISSGSDPPQDLYHEPLAAAMAAYPELHKYHGPFDLALGQSMVWSNNAAGAGQRQSFGLYSPYGAQAMHGRVLLPPAIAAEEPVYVNAKQFKGILRRRLARARAARDLRASRNRKPYLHESRHLHALRRARGSGGRFLNTRSLAAGDPPPQLASTPLGGPEPTEGGASKAARLHPAKERQEDVFLSSLTNMAGDGDGKARWVGAAPRGCCDLLRA

>PvNF-YA11

MPKLLREVEDHPVHPMSKSNHGFLSGNDHEMKHLGHKIHDKDLSSESGQSHQEAPAVSESSLNENTSTQSDNDEGHGKHNQD TVHTVLSMGKQGS AFLPPKLDYNRSFACLPTAD AYYGGVLTGYPPHAVAHPQQNHTTNAPVMLPAEPAEEPIYVNAKQYHAILRRRQTRAKLEAQNKLKGRKPYLHESRHRHAMKRARGSGGRFLNNTKQLQQTQQHQASGSSSS KVIGNSISSQSDPTPAPSTSTPSDTASASRANQDRTCFPVGLRPAMNFSAPGGEGAKLVR

>PvNF-YA12

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>PvNF-YA13

MLPPLHIENGTIMIQFGHQMPDYDSPATQSTSESHQEVSVMSEGLNDHNDQSGNHDGYSKSDENKMMSALS LGNPETAYAHPKPDRSQSFAISYPYADSYGGAVAAYGQHAIMHPQLVGMMPSSSRVPLPIEPAEEPIYVNAKQYHAILRRRQLRAKLEAENKLVKSRKPYLHESRHLHAMKRARGTSGRFLNNTKQSDSPGGSSDAQRMPANGGLFTKHEHSHPPGDRHYHARGGA

>PvNF-YA14

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>PvNF-YA15

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>PvNF-YA16

MMSFRSHEGFGQVPAGASSNGPAVPPWWAPAPQLLLYGEALGQGVKVPPEASPCREARFQVAPGAQAPLGPVPPPPPAKAAAERGLPEVLKFSVAQKGEKGS GHSAATAALPSPFAIYNGHFELGLGQSTVSANNLYVDQHCGLSPYPMGATPGGCMRIPLNMPTEAPIYVNAKQYEGILRRRRARAKAERENRLVKARKPYLHESRHLHALRRARGSGGRFLNNTKESNSKDAVGDGKAMFSNPLMRQVAPSPSEIQSDLDGNPSSVSSLSGSEVSSIYDHEDVDHYHSFDHLRTPFFFTPLPSIMDSEHG VGI PFKWPTASEGCCDLLRA

>PvNF-YA17

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>PvNF-YB01

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>PvNF-YB02

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MTTLGFAYVGPLKSYLNRYREAEGEKA AVGGARHGDGADEGPLGAGAVAAAAADRAGHHDAGGSMDVGLLMGVGAGGFGAGGGTSSYSAAAGRAYGGDGSKVLEFDGE
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>PvNF-YB03

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AARRA

GSRRY

>PvNF-YB04

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>PvNF-YB05

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>PvNF-YB06

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>PvNF-YB07

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>PvNF-YB08

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>PvNF-YB09

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>PvNF-YB10

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>PvNF-YB11

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RYREFEGEARGVVGLGVPGAARGGDHHHHPMALKSRAPGAMSPPHHDMQLHASMYGGPPAMP PPPGGPHGHGFVGMPPHHGGGGGGGGGHQSYPYEAAYAGEHAM
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>PvNF-YB12

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>PvNF-YB13

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>PvNF-YB14

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>PvNF-YB15

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>PvNF-YB16

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>PvNF-YB17

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>PvNF-YB18

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>PvNF-YC01

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>PvNF-YC02

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>PvNF-YC03

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>PvNF-YC04

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>PvNF-YC05

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>PvNF-YC06

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>PvNF-YC07

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>PvNF-YC08

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>PvNF-YC09

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>PvNF-YC10

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ENKRRTLQRNDVAAAARTDVFDFLVDIVPREEAKKEEPSALGFAAAAGAGAVGGGAPGGAPAAAGMPYYPPMGQPAPMMPAWHVPAPWPAWQQGAAADVDQSGSFGGEEGQG
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>PvNF-YC11

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>PvNF-YC12

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AGQYDDDDGALE

>AtNF-YA01

MDKKVSFTSSVAHSTPPYLSTISWGLPTKSNVGTESLSLKVV DARPERLINTKNISFQDQDSSSTLSSAQSSNDVTSSGDDNPSRQISFLAHSVDVCKGFEETQRKRFAIKSGSSTAGIADIH
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>AtNF-YA02

MTSSIHESLSDNIGSHEKQEQRDSHFQPPIPSARNYESIVTSLVYSDPGTTNSMAPGQYPYDPYYSIFAPPQPYTGLMGVQQQGVPLPSDAVEEPVFNQKQYHGILRRRQSRARLES
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>AtNF-YA03

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>AtNF-YA04

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>AtNF-YA05

MTSSVHELSDNNESHAKKERPDSQTRPQVPSGRSSESIDTNSVYSEPMAGHLYPYPDPYYSVFAQQAYLPHYPYGVQLQLMGMQQPGVPLQCDAVEEPVFNQKQYHGILRRRQSR
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>AtNF-YA06

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>AtNF-YA07

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>AtNF-YA08

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AIK

>AtNF-YA09

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SGRVMIPKMETEEDGTIYVNSKQYHGIIRRRQSRAKAEKLSRCRKPYPMHHSRHLHAMRRRPRGSGGRFLNTKTADAQSKSPNSQSSEVFHPENETINSSREANESNLSDSAVTSMD
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>AtNF-YA10

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>AtNF-YB01

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>AtNF-YB02

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AEDILWAMSKLGFNDYVDPLTVFINRYREIETDRGSALRGEPPSLRQTYGGNGIGFHPGSHGLPPPYPYGYGMLDQSMVMGGGGRYYQNGSSGQDESSVGGGSSSSINGMPAFDHYGQ
YK

>AtNF-YB03

MTEESPEEDHGSPGVAETNPGSPSKTNNNNNNNKEQDRFLPIANVGRIMKKVLPNGKISKDAKETVQECVSEFISFVTGEASDKCQREKRKTINGDDIIWAITTLGFEDYVAPLKVY
LCKYRDTEGEKVNNSPKQQQRQQQQIQQNNHHNYQFQEQQNNNNMSCTSYISHHHSPFLPVDHQPPNIAFSPKSLQKQFPQQHDNNIDSIHW

>AtNF-YB04

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>AtNF-YB05

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>AtNF-YB06

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>AtNF-YB07

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>AtNF-YB08

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>AtNF-YB09

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>AtNF-YB10

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>AtNF-YB11

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>AtNF-YB12

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>AtNF-YB13

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>AtNF-YB14

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DVLWAMSKLGFDDYIEPLTLYLHRYRELEGERGVSCSAGSVSMTNGLVVKRPNGTMTEYGAYGPVPGIHMAQYHYRHQNGFVFCNEPNSKMSGSSGASGARVEVFPTQQHKY

>AtNF-YC01

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>AtNF-YC02

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QEN

>AtNF-YC03

MDQQGQSSAMNYGSNPYQTNAMTTTTPTGSDHPAYHQIHQQQQQQQLTQQLQSFWETQFKEIEKTTDFKNHSLPLARIKKIMKADEDVRMISAEAPVVFARACEMFILELTLRSWNHT
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>AtNF-YC04

MEQSEEGQQQQQGVMDYVPPHAYQSGPVNAASHMAFQQAHHFHQQQQQQQLQMFWANQMQEIEHTTDFKNHTLPLARIKKIMKADEDVRMISAEAPVIFAKACEMFIL
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>AtNF-YC05

MDTNNQQPPPSAAGIPPPPGTTISAAGGGASYHLLQQQQQLQLFWTYQRQEIEQVNDFKNHQLPLARIKKIMKADEDVRMISAEAPILFAKACELFILELTIRSWLHAEENKRRT
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>AtNF-YC06

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>AtNF-YC07

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>AtNF-YC08

MEEEGSIRPEFPGRVKKIMKLDKDKINSEALHVITYSTELFLHFLAEKSAVVTAEKKRKTVNLDHLRIAVKRHQPTSDFLDLSLPLPAQPVKHTKSVSDKKIPAPPIGTRRIDDFFSK
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>AtNF-YC09

MEENNGNHNHYLPQPSSQLPPPPLYYSMPLPSYSLPLPYSQMRNYWIAQMGNATDVKHHAFPLTRIKKIMKSNPEVNMVTAEPVLISKACEMLILDLTMRSLHTVEGGRQTL
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>AtNF-YC10

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>AtNF-YC11

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>AtNF-YC12

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