

>RB22

ITILKNIKSYIKIHLYSINLKGIFSILYLVLLFSLLQVFLLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHTINTKKLKIILMVKLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFLTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSKKMMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIYPIINFIFLIIFFYIMLTHLQMKTCKYCCSSGYRKIFLYYLFLGSFSVRGMDGRRVFL  
MNSGFKLTLFMNLNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFSDKHLFFYLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDKQYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRHNQVTLTCIELVHYLFVYKLLPVLHLCIVLVWKLTTQSIEMLTGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLYWLSVSVMFYLMRCHYEVLQLLLVLVYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYCLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIILWLILCKLLLLYLNDDTYYLSMLFDLYLINYVRLCLVLFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHYVNVLYYTLVILLYYLLVTIVLIYI  
NLNYFIKLTGYIKIYIYIFYLRYYFSILGFQFIYIILCITLHLALANLLFPLVWNNDLHWFESKK  
EIRNIFLLLILFLKNIHFAFPSCIKMNDIKNKLYNYSVILSYIATIIRSCINTCTCLISCSCYSC  
KKNYGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSYIRYSISWLCEIRFSRFSKYSSINLINKFSYINSNYDNRKFKFNCL  
YISKSYIYTTFISCVYNNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYIYLFIYMIKDIVNHRCESTKKHMGTHLPLLGESELVSGFMTEHAAVVF  
VFFF LAEYGSIVL MCI L TSILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDLNNSIIE  
GLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTEEGNRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>F-1

ITILKNIKSYIKIHLYSINLKGIFSILYLVLLFSLLQVFLLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHTINTKKLKIILMVKLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFLTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSKKMMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIYPIINFIFLIIFFYIMLTHLQMKTCKYCCSSGYRKIFLYYLFLGSFSVRGMDGRRVFL  
MNSGFKLTLFMNLNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFSDKHLFFYLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDKQYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRHNQVTLTCIELVHYLFVYKLLPVLHLCIVLVWKLTTQSIEMLTGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLYWLSVSVMFYLMRCHYEVLQLLLVLVYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYCLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIILWLILCKLLLLYLNDDTYYLSMLFDLYLINYVRLCLVLFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHYVNVLYYTLVILLYYLLVTIVLIYI  
NLNYFIKLTGYIKIYIYIFYLRYYFSILGFQFIYIILCITLHLALANLLFPLVWNNDLHWFESKK  
EIRNIFLLLILFLKNIHFAFPSCIKMNDIKNKLYNYSVILSYIATIIRSCINTCTCLISCSCYSC  
KKNYGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSYIRYSISWLCEIRFSRFSKYSSINLINKFSYINSNYDNRKFKFNCL

YISKSYLIYTTFISCVYNIFHRIYSDKSSFFSRGPANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIIKLFIDTQFNIIYIYLFIYMIKDIVNHRCESTKKKHMGTHLPLLGESELVSGFMTEHAAVVF  
VFFF LAEYGSIVL MCI L TSIL FIGGY LL FEIS YVFTV VNYIFF ELLF IDVTFVEV QSLY TD FLN NSII E  
GLL YGF NL GLK S SLMIFT FIA RASF PRIR FDQ LM GFC T VLL P INF AII L VPC VLY SFN LL PVN IPLF  
LTHPP ALLP PQG YSTYE EG NR SRT ILV N NYTY T KTI YHT REC NY TL FLY ST LLAY YY LY MI ILL NL  
LGYINKKFVNFFHHFLIQNTNF

>F-2

ITILKNIKSYIKIIHLYSINLGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFYSYNNYRIYIIRKRSNRQQTKIIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIYPIINFIFLIIFFYIMLTHLQMKT RKYCCYSSGYRKIFLYYLFLGSFSVRGYMDGRRVFIL  
MNSGFKLTLFMNLNYNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEIYLRVKNIYI QYIINIVI  
YWYGLNQVYILSF D KHL FFY LLLL CEIN NY NIIL HST Y LGIL SYLA IN DS QI L FSL VWN ND L  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRH NQV T L VT C EILV HYL FV YK L L P VL HLC IIV LV WKL LT QSI EMLIT GDFV IYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLYWLSVSVMFYLM DRCH YEV LQ L L L VLY LEGK I  
LLNSFEVVFLIMPLTDFLHYI LYCLLYLLFCTLHFMILLVQAILL VFQVITIELHLLHIFYLKILLF  
LYLF LYVLLYSLCLMFGIVIIWLJLCKL L L L L NDT Y YLSMLFDLYLINYVRLCLVLFLLCYY  
LLQIVDLEVYNLDH L VKL SEF L L ISFCNV L NTL KIH LY VNV L Y YTL VILL LY YL VTIIVL IYI  
NLNYFIKLT KYIKI IIYI F YL RYY FSIL GFQI IYIILC ITL HLA NLLFPLVWNNDL IHWFFESKK  
EIRNIF L L L IFL KNIHF ALP FSCIKMNDIKNK YL NYSV ILSYIATIIRSCINTCTCLISCSLCYSC  
KKNYGYAKKIRSCC RLLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSYIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFFSRGPANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIIKLFIDTQFNIIYIYLFIYMIKDIVNHRCESTKKKHMGTHLPLLGESELVSGFMTEHAAVVF  
VFFF LAEYGSIVL MCI L TSIL FIGGY LL FEIS YVFTV VNYIFF ELLF IDVTFVEV QSLY TD FLN NSII E  
GLL YGF NL GLK S SLMIFT FIA RASF PRIR FDQ LM GFC T VLL P INF AII L VPC VLY SFN LL PVN IPLF  
LTHPP ALLP PQG YSTYE EG NR SRT ILV N NYTY T KTI YHT REC NY TL FLY ST LLAY YY LY MI ILL NL  
LGYINKKFVNFFHHFLIQNTNF

>H-2

ITILKNIKSYIKIIHLYSINLGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFYSYNNYRIYIIRKRSNRQQTKIIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIYPIINFIFLIIFFYIMLTHLQMKT RKYCCYSSGYRKIFLYYLFLGSFSVRGYMDGRRVFIL  
MNSGFKLTLFMNLNYNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEIYLRVKNIYI QYIINIVI  
YWYGLNQVYILSF D KHL FFY LLLL CEIN NY NIIL HST Y LGIL SYLA IN DS QI L FSL VWN ND L  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRH NQV T L VT C EILV HYL FV YK L L P VL HLC IIV LV WKL LT QSI EMLIT GDFV IYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLYWLSVSVMFYLM DRCH YEV LQ L L L VLY LEGK I  
LLNSFEVVFLIMPLTDFLHYI LYCLLYLLFCTLHFMILLVQAILL VFQVITIELHLLHIFYLKILLF

LYLFLYVLLYSLCLMFGIVIILWLILCKLLLLYNDTYYLSMLFDLYLINYVLRCVLFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHLYYVNVLVILLYYLLVTIIVLIYLI  
NLNYFIKLTKYIKIIYIFYLRYYSILGFQFIIYIILCITLHLALANLLPFWNNNDLLIHWFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNYSYVILSYIATIIRSCINTCTCLISCSCYSC  
KKNYGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINKFSYINSNYDNRKFKFNCL  
YISKSYIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNRCESTKKKHMGTLPPLLGESELVSGFMTEHAAVVF  
VFFFLAEYGSIVLMCILTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDLNNSIIE  
GLLYGPNLGLKSSLMIFTFIARASFPRIRFDQLMGCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFFHHFLIQNTNF

>Hei-1

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFSLEFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVKLQRQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNSILLY  
KNIYPIINFIFFLIIFFYIMLTHLQMKT KYCCSSGYRKIFLYYLFLLGFSVRGYMDGRRVFL  
MNSGFKLTLFNMNLNNYINVGYDRIMYSLRVKRDPTYNTWFRVEIYLRVKNIYIYQIINIVI  
YWYGLNQVYILSF DKKHLFFYLLLLYCEINNNYIILHSTY LGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKR VNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRH NQVTLVTCEILVHYLFVYKLLPVLHLCIVLVWKL LTQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVL FELLVLLYYWLSVSVMFYLM DRCHYEV LQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIILWLILCKLLLLYNDTYYLSMLFDLYLINYVLRCVLFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHLYYVNVLVILLYYLLVTIIVLIYLI  
NLNYFIKLTKYIKIIYIFYLRYYSILGFQFIIYIILCITLHLALANLLPFWNNNDLLIHWFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNYSYVILSYIATIIRSCINTCTCLISCSCYSC  
KKNYGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINKFSYINSNYDNRKFKFNCL  
YISKSYIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNRCESTKKKHMGTLPPLLGESELVSGFMTEHAAVVF  
VFFFLAEYGSIVLMCILTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDLNNSIIE  
GLLYGPNLGLKSSLMIFTFIARASFPRIRFDQLMGCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFFHHFLIQNTNF

>Hei-3

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFSLEFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVKLQRQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNSILLY  
KNIYPIINFIFFLIIFFYIMLTHLQMKT KYCCSSGYRKIFLYYLFLLGFSVRGYMDGRRVFL

MNSGFKLTLMNMLNNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVRNNFLDQKYFLQKAYAFHFFDKQLLIFGCLVLITKFFQFLYKFKEYKVIH  
YNILTSRMRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLTLTQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMDRCHYEVLQLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYLCLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIILWLICLCKLLLLNDTYYLSMLFDLYLINYVLRCVLFLLCYY  
LLQIVDLEVYNLDHVLKLFSEFLISFCNVNLTKIHLYYVNVLVYIYTIVLVLVLLYLLVTHVLIYLI  
NLNYFIKLTGYIKIIYIFYLRYYSILGFQFIIYIILCITLHLALANLLFPLVWNNDLLIHWFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNSYVILSYIATIIRSCINTCTCLISCSCLCYSC  
KKNGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYIYTTFISCVYNIFHRIYSDKSSFSRGPNLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNHRCESTKKKHMGTLPPLLGESELVSGFMTEHAAVVF  
VFFFЛАЕYGSIVLМСILTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDЛNNSIIE  
GLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEEGNRSRTILVNNYTYTКTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>Hu-1

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFISHFYICSSLSRKIYFRVWFPRAKNTIRYKI  
LYFCFSLEFTFRFRNIINFPRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTКIYTIERLPYR  
VCWNRGFVCLRQKTKPTKGLMGSYKKMITYIYISYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIIYPIINFIFLIIFFYIMLTHLQMKTЫCCYSSGYRKIFLYYLFLGSFSVRGYMDGRRVФIL  
MNSGFKLTLMNMLNNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVRNNFLDQKYFLQKAYAFHFFDKQLLIFGCLVLITKFFQFLYKFKEYKVIH  
YNILTSRMRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLTLTQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMDRCHYEVLQLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYLCLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIILWLICLCKLLLLNDTYYLSMLFDLYLINYVLRCVLFLLCYY  
LLQIVDLEVYNLDHVLKLFSEFLISFCNVNLTKIHLYYVNVLVYIYTIVLVLVLLYLLVTHVLIYLI  
NLNYFIKLTGYIKIIYIFYLRYYSILGFQFIIYIILCITLHLALANLLFPLVWNNDLLIHWFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNSYVILSYIATIIRSCINTCTCLISCSCLCYSC  
KKNGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYIYTTFISCVYNIFHRIYSDKSSFSRGPNLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNHRCESTKKKHMGTLPPLLGESELVSGFMTEHAAVVF  
VFFFЛАЕYGSIVLМСILTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDЛNNSIIE  
GLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEEGNRSRTILVNNYTYTКTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>Hu-2

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLFLLLHFYYSLIK  
NDVVWLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWPFFRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTIIYTIERLPYR  
VCWNRGFVKLRQTKPKTGMGSYKKMITYIYSYYIFTITRIIYIYIILYKIIIIRYNYSILLY  
KNIIYPIINFIFFLIIFFYIMLTHLQMKRTKYCCYSSGYRKIFLYYLFLGSFSVRGYMDGRRVFL  
MNSGFKLTLMNLNYNINVGYDRIMYSLRVKRDPTYNTWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDFKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVMNFDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSRHNQVTLVTCEILVHYLFVKLLPVLHLCIVLVWKLTTQSIEMLTGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLYWLSVSVMFYLMDRCHYEVLQLLLVLVYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYCLYLLFCTLHFMILLVQAILLVFQVITIELHLLHIFYLKILLF  
LYLFYVLLYSLCLMFGIVIIWLILCKLLLLLNDTYYLSMLFDLYLINYVRCLVFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHLYYVNVLYYTLLVILLYYLLTIIVLIYLI  
NLNYFIKLTKYIKIIYIFYLRYYSILGFQFIIYIILCITLHLALANLLFPLVWNNDLLIHWFESKK  
EIRNIFLLLILFLKNIHFAFPSCIKMNDIKNKYLNSYVILSYIATIIRSCINTCTCLISCSCYSC  
KKNGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSYIRYSISWLKCEIRFSRFSKYSSINLINKFSYINSYDNRKFKFNCL  
YISKSYIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILFIDTQFNIYIYLFIYMIKDIVNHRCESTKKHMGTHLPLLGESELVSGFMTEHAAVVF  
VFFF LAEYGSIVL MCI LTSILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDFLNNSIIE  
GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINF AII L VPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>I-1

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLFLLLHFYYSLIK  
NDVVWLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWPFFRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTIIYTIERLPYR  
VCWNRGFVKLRQTKPKTGMGSYKKMITYIYSYYIFTITRIIYIYIILYKIIIIRYNYSILLY  
KNIIYPIINFIFFLIIFFYIMLTHLQMKRTKYCCYSSGYRKIFLYYLFLGSFSVRGYMDGRRVFL  
MNSGFKLTLMNLNYNINVGYDRIMYSLRVKRDPTYNTWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDFKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVMNFDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSRHNQVTLVTCEILVHYLFVKLLPVLHLCIVLVWKLTTQSIEMLTGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLYWLSVSVMFYLMDRCHYEVLQLLLVLVYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYCLYLLFCTLHFMILLVQAILLVFQVITIELHLLHIFYLKILLF  
LYLFYVLLYSLCLMFGIVIIWLILCKLLLLLNDTYYLSMLFDLYLINYVRCLVFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHLYYVNVLYYTLLVILLYYLLTIIVLIYLI  
NLNYFIKLTKYIKIIYIFYLRYYSILGFQFIIYIILCITLHLALANLLFPLVWNNDLLIHWFESKK  
EIRNIFLLLILFLKNIHFAFPSCIKMNDIKNKYLNSYVILSYIATIIRSCINTCTCLISCSCYSC  
KKNGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSYIRYSISWLKCEIRFSRFSKYSSINLINKFSYINSYDNRKFKFNCL  
YISKSYIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP

NKYIILKFIDTQFNIYIYLFIYMIKDIVNRCESTKKKHMGTHLPLLGESELVSGFMTEHAAVVF  
VFFFLAEYGSIVLMCILTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDLNNSIIE  
GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNYTAKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFFHHFLIQNTNF

>LZJ-32-5

ITILKNIKSYIKIHLYSINLGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIIILMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSCLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTIIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILYKIIIIRYNYSILLY  
KNIIYPIINFIFLFLIIFFYIMLTHLQMCKRTKYCCYSSGYRKIFLYLFLLGSFSVRGYMDGRRVFI  
MNSGFKLTLFMNLNNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEIYLRVKNIYIQQIINIVI  
YWYGLNQVYILSFDFKHLFFYLLLLCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKV  
YNILTSMRHNVQTVLTCEILVHYLFVYKLLPVLHLCIVLVWKLITQSIEMLTGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMDRCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYCLYLLFCTLHFMILLVQAILVFQVITIELHLLHIIYLKILLFL  
YFLYVLLYSLCLMFGIVIIWLILCKLLLLYLNDDYYLSMLFDLYLINYVRLCLVLFLLCYYL  
LQIVDLEVYNLDHLVKLSEFLLISFCNVNLTKIHLYYYNVLYYTLVLLLYLLVTIIVLIYLIN  
LNYFIKLTGYIKIYIYIFYLRYYFSILGFQFIIILCITLHLALANLLFPLVWNNDLIIHWFFESKKEIR  
NIFLLLLLFLKNIHFALPFSCIKMNDIKNKYLNSYVILSYIATIIRSCINTCTCLISCSLCYSCKK  
NYGYAKKIRSCCRLLWTIASICCLKTFRICSSYTIYCSFLRSCCNFKNFCIIRLRCYTLWSWFRDK  
RHEFRYILHVSCVIFSYIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCLYISK  
SYLIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIPNKYI  
IKLFIDTQFNIYIYLFIYMIKDIVNRCESTKKKHMGTHLPLLGESELVSGFMTEHAAVVFVFFFL  
AEYGSIVLMCILTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDLNNSIIEGLLY  
GFNLGLKSSLMIFTFIARASFPRIRFDQLMGCTVLLPINFAIIILVPCVLYSFNLLPVNIPLFLTHPP  
ALLPQGYSTYEENRSRTILVNNYTAKTIYHTRECNYTLFLYSTILAYYYLYMIIILLNLGYIN  
KLVNFFFHHFLIQNTNF

>MT-14-2

ITILKNIKSYIKIHQYSINLGIFSILYLVLSSSLQGFLLGSLLNRWYARLLIKVISFYLLQYLV  
EEFIKKCSSIHLTISTKKLKIIILMVKLLIETIKHMNLIQMSLCLVLWQLFLHHFYYSCLIKND  
VVWVLYWYNLYLTINEYDIYRVCISNSYIIFSYFICSSLSRKIYFRVWFPPRAKNTIRYKILYIC  
FSLFTFRFRNIINFSFRCVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTIIYTSKREIPYVRNRG  
FVKLRQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILYKIIIIRYNYSILLYKNIYPIIN  
FIFFLIIFFYIMLTHLQMCKRTKYCCYSSGYRKIFLYLFLLGSFSVRGYMDGRRVFILMSGFKL  
TLFMNLNNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEIYLRVKNIYIQQIINIVIYWYGLN  
QVYILSFDFKHLFFYLLLLCEINNNIILHSTYLGILSYLATNESQNFSLVWNNDLIIHWFFDS  
KKRVNNILAEKYYFLQKAYAFHFFDKQLLIFDCLAVLTITKFNQVLSKFKEYKVHYNILILSM  
RHNQVILVTVYEILVHYLFVYKLLQVLHLCIVLVWKP LIQNIEMLTDDFVIYIVIQPQHSFSCIYT  
VEVYIMDHIELLVLYELLVLYWPSVSVMFYLMKDCHYEVLQLLILLVSLSEDKILLNLFEE  
VFLLIMPLTDFLHYIYLYLLYCTHFTIQLVLVTFQVIMIELHLLHIIYLKILLFLYLYVHL  
YSLCLMFGIVIIWLILCKLLLLCLNDIYLSMLFDLYLINYELLCLVQFLCYLLQIVDLEVY

NLDHLVKLSEFLLISYCNVLNTKIHLYYVNVLFTLVTLYYLLVTIIVQIYLINLNYYIKLTKFIK  
IIYIFYLRYYFSILGFQFIIYIILCITLHLALGNPLFPLVWNNDLLIHWFDSKKEIRNNLLLILFL  
KNIFALPFSCIKMNDIKNQYLNYSYVILPYFTAIFRSYINTCTCLVSCSLCYSSKKNYGYAKKIR  
SRCRLLWTTTSICCLKTFIKRICSSYTIVSFLFRSSYYFNICITRLCCYTIWTWFRIKRYEFRYLLY  
VSCVIFSYIYFISRLKCQICISRFSKYSSINLINKSHINSNYDNRKFKFNCMYISKSCLINIAIISC  
IYNIFYRIYSNKSSFSRGPNILVWSGYMSQIAGKPFYFKNKRQLAGNLIPNKYIILFIDTQFNIY  
IYLFYMIKDIVNHRCESTKKKHMGTPLLGESELVSGFMTEHAAVVFVFFLAEYGSIVLMCI  
LTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFIEIQSLYTDLNNSVIEGLLYGFNLGLKSSLMI  
FTFIARASFPRIRFDQLMAFCTVLLPINFAIIILVPCVLYSFNLLPINIPLFLTHPPALLPQGYSTYEE  
GNRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNLGYINKFVNFFHHFLI  
QNTNF

>R01-1

ITILKNIKSYIKIILHYSINLKIGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHTINTKKLKIILMVKLLIETIKYMLNLIQMLCLVLWQLFLLHFYYSCLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFYSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNSILLY  
KNIYPIINFIFLIIFFYIMLTHLQMKTCKYCCYSSGYRKIFLYYLFLGSFSVRGMDGRVFIL  
MNSGFKLTLFMNLNNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEYIYLRVKNIYIQYIINVI  
YWyGLNQVYIISFDKHLFFYLLLLYCEINNNYIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTLSMRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLLTQSIEMLTGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRCHYEVLQLLLILLVYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYCLYLLFCTLHFMILLVQAILLVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIWLILCKLLLLYLNDDTYYLSMLFDLYLINYVLRCLVLFLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHLYYVNVLYYTUVLIVLLYLLVTIIVLIYI  
NLNYFIKLTGYIKIYIYIFYLRYYFSILGFQFIIYIILCITLHLALANLLFPLVWNNDLLIHWFESKK  
EIRNIFLLLILFLKNIFALPFSCIKMNDIKNQYLNYSYVILSYIATIIRSCINTCTCLISCSLCYSC  
KKNYGYAKKIRSCCRLWTIASCCLKTFIKRICSSYTIVCSFLFRSCNNFNCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSYIYRYSISWLCEIRFSRFKSYSSINLINKFSYINSNYDNRKFKFNCL  
YISKSYIYTTFISCVYNIFHRIYSDKSSFSRGPNLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILFIDTQFNIYIYLFYMIKDIVNHRCESTKKKHMGTPLLGESELVSGFMTEHAAVVF  
VFFF LAEYGSIVLMCILTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFEVQSLYTDLNNSIIE  
GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGCTVLLPINFAIIILVPCVLYSFNLLPVNIPL  
LTHPPALLPQGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKFVNFFHHFLIQNTNF

>S1

ITILKNIKSYIKIILHYSINLKIGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHTINTKKLKIILMVKLLIETIKYMLNLIQMLCLVLWQLFLLHFYYSCLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFYSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNSILLY  
KNIYPIINFIFLIIFFYIMLTHLQMKTCKYCCYSSGYRKIFLYYLFLGSFSVRGMDGRVFIL  
MNSGFKLTLFMNLNNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEYIYLRVKNIYIQYIINVI

YWYGLNQVYILSFDKHLFFYLLLLYCEINNNYIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVLTITKFFQFLYKFKEYKVIH  
YNILTSMRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLTLTQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRDCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYLCLYLLFCTLHFMILLVQAILVFQVITIELHLLHIIYLKILLFL  
YLFYVLLYSLCLMFGIVIIIWLILCKLLLLYLNDDTYYLSMLFDLYLINYVRCLVLFLLCYYL  
LQIVDLEVYNLDHLVKLSEFLLISFCNVNLTKIHLYYVNVLYYTLVILLLYLLVTIVLIYLN  
LNYFIKLTGYIKIIYIFYLRYYFSILGFQFIIYIILCITLHLALANLLFPLVWNNDLLIHWFESKKEI  
RNIFLLLILFLKNIHFALPSCIKMNDIKNKYLNYSYVILSYIATIIRSCINTCTCLISCSLCYSCKK  
NYGYAKKIRSCCRLWTIASICCLKTIFKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSWFRD  
KRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCLYIS  
KSYLIYTTFISCVYNIFHRIYSDKSSFSRGPNLVWSGYMSIARKPFYFKNKRQLAGNLIPNK  
YIILKFIDTQFNIYIYLFIYMIKDIVNRCESTKKKHMGTLLGESELVSGMTEHAAVVFVFF  
FLAEYGSIVLMLCILTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDFLNNSIIEGL  
LYGFNLGLKSSLMIIFTFIARASPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLFLT  
HPPALLPQGSTYEEGNRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNLLG  
YINKKFVNFFFHHFLIQNTNF

>Su-1

ITILKNIKSYIKIIHLYSINLKIGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLFLLLHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFYSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIRYNYSILLY  
KNIIYPIINFIFLIIFFYIMLTHLQMKTQYCCSSGYRKIFLYYLFLLLGSFSVRGYMDGRRVFIL  
MNSGFKLTLFMNLNYNINVGYDRIMYSLRVKRDTPTYNTYWFRVEYIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDKHLFFYLLLLYCEINNNYIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVLTITKFFQFLYKFKEYKVIH  
YNILTSMRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLTLTQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRDCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYLCLYLLFCTLHFMILLVQAILVFQVITIELHLLHIIYLKILLFL  
YLFYVLLYSLCLMFGIVIIIWLILCKLLLLYLNDDTYYLSMLFDLYLINYVRCLVLFLLCYYL  
LQIVDLEVYNLDHLVKLSEFLLISFCNVNLTKIHLYYVNVLYYTLVILLLYLLVTIVLIYLN  
LNYFIKLTGYIKIIYIFYLRYYFSILGFQFIIYIILCITLHLALANLLFPLVWNNDLLIHWFESKKEI  
RNIFLLLILFLKNIHFALPSCIKMNDIKNKYLNYSYVILSYIATIIRSCINTCTCLISCSLCYSCKK  
NYGYAKKIRSCCRLWTIASICCLKTIFKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSWFRD  
KRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCLYIS  
KSYLIYTTFISCVYNIFHRIYSDKSSFSRGPNLVWSGYMSIARKPFYFKNKRQLAGNLIPNK  
YIILKFIDTQFNIYIYLFIYMIKDIVNRCESTKKKHMGTLLGESELVSGMTEHAAVVFVFF  
FLAEYGSIVLMLCILTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDFLNNSIIEGL  
LYGFNLGLKSSLMIIFTFIARASPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLFLT  
HPPALLPQGSTYEEGNRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNLLG  
YINKKFVNFFFHHFLIQNTNF

>T-3

ITILKNIKSYIKIIHLYSINLKIGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV

LEGFIILKKCSFIHTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLFLLLHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFLSFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTKIIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIIYPIINFIFLIIFFYIMLTHLQMKTCKYCCYSSGYRKIFLYYLFLGSFSVRGMDGRRVFL  
MNSGFKLTLFMNLNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFSDKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDKQYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRHNVQVTLTCEILVHYLFVYKLLPVLHLCIVLVWKLLTQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLYWLSVSVMFYLMRDCHYEVLQLLLVLVYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYCLLYLLFCTLHFMILLVQAILLQVQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIWLILCKLLLLLNDTYYLSMLFDLYLINYVLRCVLFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHLYYVNVLYYTLVILLLYLLVIIYIYI  
NLNYFIKLTKYIKIIYIFYLRYYFSILGFQFIYIILCITLHLALANLLFPLVWNNDLIIHWFFESKK  
EIRNIFLLLILFLKNIFALPFSCIKMNDIKNKYLNYSVILSYIATIIRSCINTCTCLISCSCYSC  
KKNYGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIIKLFIDTQFNIYIYIYLFIYMIKDIVNHRCESTKKHMGTHLPLLGESELVSGFMTEAAVVF  
VFFF LAEYGSIVL MCLTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDLNNSIIE  
GLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPGYSTEEGNRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN010

ITILKNIKSYIKIIHLYSINLKIGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLFLLLHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFLSFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTKIIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIIYPIINFIFLIIFFYIMLTHLQMKTCKYCCYSSGYRKIFLYYLFLGSFSVRGMDGRRVFL  
MNSGFKLTLFMNLNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFSDKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDKQYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRHNVQVTLTCEILVHYLFVYKLLPVLHLCIVLVWKLLTQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLYWLSVSVMFYLMRDCHYEVLQLLLVLVYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYCLLYLLFCTLHFMILLVQAILLQVQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIWLILCKLLLLLNDTYYLSMLFDLYLINYVLRCVLFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHLYYVNVLYYTLVILLLYLLVIIYIYI  
NLNYFIKLTKYIKIIYIFYLRYYFSILGFQFIYIILCITLHLALANLLFPLVWNNDLIIHWFFESKK  
EIRNIFLLLILFLKNIFALPFSCIKMNDIKNKYLNYSVILSYIATIIRSCINTCTCLISCSCYSC  
KKNYGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIIKLFIDTQFNIYIYIYLFIYMIKDIVNHRCESTKKHMGTHLPLLGESELVSGFMTEAAVVF

VFFFLAEYGSIVLMCILTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDFLNNNSIIE  
GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEEGNRSRTILVNNTYTKTIYHTRECNYTLFLYSTLLAYYLYMIIIILLNL  
LGYINKKFVNFFFHHFLIQNTNF

>YN029

>YN030

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLLGSLLNRWYARLLKVISFYLLQYLV  
LEGFIIILKKCSFIHLTINTKKLKIILMVKLIELTIKYMLNLIQMLCLVLWQLFLLLHFYYSCLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSSLSRKIYFRVWFPPFFRAKNTIRYKI  
LYFCFSLEFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVKLRQKTKPTKGLMGSYKKMITYIYSYYIFTTRIIYIYIILLYIKIIIIRYNYSILLY  
KNIIYPIINFIFFLIIIFFYIMLTHLQMKRKTGYCCYSSGYRKIFLYLFLLGSFSVRGYMDGRRVFIL  
MNSGFKLTLMNLNYNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEYIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDKHLFFYLLLLYCEINNNYIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRNVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTLSMRHNQVTLVTCEILVHYLFVYKLLPVHLHCIIVLVWKLLTQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMDRCHYEVLQLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYLCLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIILWLILCKLLLLYLNDDTYYLSMLFDLYLINYVLRCVLFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTKIHLYYVNVLYYTLVILLLYLLVTIVLIYLI

NLNYFIKLTGYIKIIYIFYLRYYFSILGFQFIIYIILCITLHLALANLLPJVWNNDLIHWFFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNSYVILSYIATIIRSCINTCTCLISCSLCYSC  
KKNGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNHRCESTKKKHMGTLPPLLGESELVSGFMTEHAAVVF  
VFFF LAEYGSIVL MCI L TSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDFLNNSIIE  
GLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFFHHFLIQNTNF

>YN040

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHTINTKKLKIILLMVKLIETIKYMLNLIQMLCLVLWQLFLLHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLSFSYFNFYSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGVKL RQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIYPIINFIFLIIFFYIMLTHLQM KRTKYCCSSGYRKIFLYYLFL LGFSVRG YM DGR RVFIL  
MNSGFKLTLFMNLNYNINVGYDRIMYSLRVKRDTP TYWFRVEYIYLRVKNIYI QYIINIVI  
YWYGLNQVYILSF D KHLFFYLLLYCEINN YNIILHSTY LGILS YLAINDSNQILFSLVWNNDL  
LIHWFFDSKKR VNNFLDQKYYFLQKAYAFHFDKQLLIFGCLL TITKFFQFLYKFKEYKVIH  
YNI LTLSMRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLLTQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVL FELLVLLYYWLSVSVMFYLM DRCHYEV LQ LLLL VLYLEGK I  
LLNSFEVVFL LIMPLTD FLHYI LYCL YLLFCTLHFMILLVQAIL VFQVITIELHLLHIF YLKILLF  
LYLFYVLLYSLCLMFGIVIIILWLILCKL LLLYLN DTY YLSMLFDLYLINYVLRCLVFL CYY  
LLQIVDLEVYNLDH LVKLSEFLLISFCNVL NTLKIHLYYVNVLYYTLVILLLYLLVTIIVLIYLI  
NLNYFIKLTGYIKIIYIFYLRYYFSILGFQFIIYIILCITLHLALANLLPJVWNNDLIHWFFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNSYVILSYIATIIRSCINTCTCLISCSLCYSC  
KKNGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNHRCESTKKKHMGTLPPLLGESELVSGFMTEHAAVVF  
VFFF LAEYGSIVL MCI L TSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDFLNNSIIE  
GLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFFHHFLIQNTNF

>YN047

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHTINTKKLKIILLMVKLIETIKYMLNLIQMLCLVLWQLFLLHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLSFSYFNFYSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGVKL RQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIYPIINFIFLIIFFYIMLTHLQM KRTKYCCSSGYRKIFLYYLFL LGFSVRG YM DGR RVFIL  
MNSGFKLTLFMNLNYNINVGYDRIMYSLRVKRDTP TYWFRVEYIYLRVKNIYI QYIINIVI  
YWYGLNQVYILSF D KHLFFYLLLYCEINN YNIILHSTY LGILS YLAINDSNQILFSLVWNNDL

LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLVLITKFFQFLYKFKEYKVIH  
YNILTLMSMRHNQVTLVTCEILVHYLFVKLLPVLHLCIIVLVWKLTLTQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDIELLVLFELLVLLYYWLSVSVMFYLMDRCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYLCLLYLLFCTLHFMILLVQAILLVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIILWLICLCKLLLLNNDTYYLSMLFDLYLINYVLRCVLFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVNLNTLKIHLYYVNVLVILLLYLLVTHVLIYLI  
NLNYFIKLTGYIKIHHYIFYLRYYSILGFQFIYIILCITLHLALANLLFPLVWNNDLIIHWFFDSKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNYSVILSYIATIIRSCINTCTCLISCSCYCSC  
KKNGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNHRCESTKKKHMGTLPPLLGESELVSGFMTEHAAVVF  
VFFF LAEYGSIVL MCLTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDFLNNSIIE  
GLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFFHHFLIQNTNF

>YN084

ITILKNIKSYIKIHHYISINLGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIIILKKCSFIHLTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPRSVCWYLSFSYFNFSYFNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVCLRQKTKPTKGLMGSYKKMITYIYSSYYIFTITRIIYIYIILLYKIIIRYNSILLY  
KNIIYPIINFFLIIFFYIMLTHLQMKT KYCCYSSGYRKIFLYYLFLGSFSVRGYMDGRRVFILE  
MNSGFKLTLFMNLNNYINVGYDRIMYSLRVKRDPTYNTWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDKHLFFYLLLLCEINNNYIILHSTY LGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLVLITKFFQFLYKFKEYKVIH  
YNILTLMSMRHNQVTLVTCEILVHYLFVKLLPVLHLCIIVLVWKLTLTQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDIELLVLFELLVLLYYWLSVSVMFYLMDRCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYLCLLYLLFCTLHFMILLVQAILLVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIILWLICLCKLLLLNNDTYYLSMLFDLYLINYVLRCVLFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVNLNTLKIHLYYVNVLVILLLYLLVTHVLIYLI  
NLNYFIKLTGYIKIHHYIFYLRYYSILGFQFIYIILCITLHLALANLLFPLVWNNDLIIHWFFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNYSVILSYIATIIRSCINTCTCLISCSCYCSC  
KKNGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNHRCESTKKKHMGTLPPLLGESELVSGFMTEHAAVVF  
VFFF LAEYGSIVL MCLTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDFLNNSIIE  
GLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFFHHFLIQNTNF

>YN093

ISILKNIKSYIKIHHYISINLGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIIILKKCSFIHLTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK

NDVVVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPFRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTIIYTIERLPYR  
VCWNRGFVKLRQTKPKTGMGSYKKMITYIYSYYIFTITRIIYIYIILYKIIIIRYNYSILLY  
KNIIYPIINFIFFLIIFFYIMLTHLQMKTCKYCCYSSGYRKIFLYLFLLGSFSVRGYMDGRRVFIL  
MNSGFKLTLFMNLNYNINVGYDRIMYSLRVKRDTPTYNTWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDFKHLFFYLLLLYCEINNNYIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVRNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLTTQSIEMLTGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMDRCHYEVLQLLLVLVLEGKI  
LLNSFEVVFLIMPLTDFLHYIYLCLYLLFCTLHFMIILVQAILVFQVITIELHLLHIFYLKILLF  
LYLFYVLLYSLCLMFGIVIILWLILCKLLLLNNDTYYLSMLFDLYLINVLRCLVFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHLYYVNVLVYTLVILLYYLLVIIIVLIYLI  
NLNYFIKLTKYIKIYYIFYLRYYSILGFQFIIYIILCITLHLALANLLPVLVWNNDLIIHWFFESKK  
EIRNIFLLLFLKNIHFALPFSCIKMNDIKNKYLNYSVILSYIATIIRSCINTCTCLISCSCYSC  
KKNGYAKKIRSCCRLWTIASCCLKTFIKRICSSYTIYCSFLFRSCNNFNCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKEIRFSRFSKYSSINLINIKFSYINSYDNRKFKFNCL  
YISKSYIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILFIDTQFNIYIYLFIYMIKDIVNHRCESTKKHMGTHLPLLGESELVSGFMTEHAAVVF  
VFFF LAEYGSIVLMCILTSILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDLNNSIIE  
GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNYTYTCTIYHTRECNYTLFLYSTLLGYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN094

ITILKNIKSYIKIHLYSINLKGIFSILYLVLLFSLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVVVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPFRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTIIYTIERLPYR  
VCWNRGFVKLRQTKPKTGMGSYKKMITYIYSYYIFTITRIIYIYIILYKIIIIRYNYSILLY  
KNIIYPIINFIFFLIIFFYIMLTHLQMKTCKYCCYSSGYRKIFLYLFLLGSFSVRGYMDGRRVFIL  
MNSGFKLTLFMNLNYNINVGYDRIMYSLRVKRDTPTYNTWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDFKHLFFYLLLLYCEINNNYIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVRNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLTTQSIEMLTGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMDRCHYEVLQLLLVLVLEGKI  
LLNSFEVVFLIMPLTDFLHYIYLCLYLLFCTLHFMIILVQAILVFQVITIELHLLHIFYLKILLF  
LYLFYVLLYSLCLMFGIVIILWLILCKLLLLNNDTYYLSMLFDLYLINVLRCLVFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHLYYVNVLVYTLVILLYYLLVIIIVLIYLI  
NLNYFIKLTKYIKIYYIFYLRYYSILGFQFIIYIILCITLHLALANLLPVLVWNNDLIIHWFFESKK  
EIRNIFLLLFLKNIHFALPFSCIKMNDIKNKYLNYSVILSYIATIIRSCINTCTCLISCSCYSC  
KKNGYAKKIRSCCRLWTIASCCLKTFIKRICSSYTIYCSFLFRSCNNFNCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKEIRFSRFSKYSSINLINIKFSYINSYDNRKFKFNCL  
YISKSYIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILFIDTQFNIYIYLFIYMIKDIVNHRCESTKKHMGTHLPLLGESELVSGFMTEHAAVVF  
VFFF LAEYGSIVLMCILTSILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDLNNSIIE

GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEEGNSRTILVNNYTYTCTIYHTRECNYTLFLYSTLLGYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN097

ITILKNIKSYIKIIHLYSINLKIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSCLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWPFFRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTIIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILYIKIIIIRYNYSILLY  
KNIIYPIINFIFLIIFFYIMLTHLQMKRTKYCCYSSGYRKIFLYYLFLGSFSVRGYMDGRRVFL  
MNSGFKLTFMNLNNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDFDKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLTTQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRDCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYCLLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIILWLILCKLLLLYNDTYYLSMLFDLYLINYVLRCLVFLLCYY  
LLQIVDLEVYNLDHVLVKLSEFLLISFCNVLNTLKIHLYYVNVLYYTLVILLYYLLVTIVLIYLI  
NLNYFIKLTGYIKIIYIYFLRYYFSILGFQFIIYIILCITLHLALANLLFPLVWNNDLLIHWFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNYSVILSYIATIIRSCINTCTCLISCSLCYSC  
KKNYGYAKKIRSCCRLWTIASCCLKTFIKRICSSYTIYCSFLFRSCNNFNCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSYIRYSISWLCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYFLYMIKDIVNHRCESTKKHMGTHLPLLGESELVSGFMTEHAAVVF  
VFFF LAEYGSIVL MCI LTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDFLNNIIIE  
GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEEGNSRTILVNNYTYTCTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN137

ITILKNIKSYIKIIHLYSINLKIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSCLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWPFFRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTIIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILYIKIIIIRYNYSILLY  
KNIIYPIINFIFLIIFFYIMLTHLQMKRTKYCCYSSGYRKIFLYYLFLGSFSVRGYMDGRRVFL  
MNSGFKLTFMNLNNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDFDKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLTTQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRDCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYCLLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIILWLILCKLLLLYNDTYYLSMLFDLYLINYVLRCLVFLLCYY  
LLQIVDLEVYNLDHVLVKLSEFLLISFCNVLNTLKIHLYYVNVLYYTLVILLYYLLVTIVLIYLI  
NLNYFIKLTGYIKIIYIYFLRYYFSILGFQFIIYIILCITLHLALANLLFPLVWNNDLLIHWFESKK

EIRNIFLLLLLFLKNIHFALPFSCIKMNDIKNKYLNYSYVILSYIATIIRSCINTCTCLISCSCLCYSC  
KKNYGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSYIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFFSRGPANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIIKLFIDTQFNIIYIYLFIYMIKDIVNHRCESTKKKHMGTHLPLLGESELVSGFMTEHAAVVF  
VFFFLLAEYGSIVLMCILTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDFLNNSIIE  
GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNTYTKIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFFHHFLIQNTNY

>YN153

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSSLNRWYARLLIKVISFYLLQYLV  
LEGFIIIKKCSFIHTINTKKLKIILLMVKLLETIKYMLNLIQMLCLVLWQLFLLLHFYYSCLIK  
NDVWVLYWYNLYLAINEYDIYRVCICSYFIFSHFYICSSSLSRKIYFRVWFPPFFRAKNTIRYKI  
LYFCFSLEFTFRFRNIINFPRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVKLRQKTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIIYPIINFIFFLIIIFFYIMLTHLQMCKRTKYCCYSSGYRKIFLYYLFLLGFSVRGYMDGRRVFILE  
MNSGFKLTLFMNLNYNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEYIYLRLVKNIYIQYIINIVI  
YWYGLNQVYILSFDFKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVMNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLLTQSIEMLITGDFVIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRCHYEVLQLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDLHYILYCLLYLLFCTLHFMILLVQAILL VFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIILWLILCKLLLLYLNDDTYYLSMLFDLYLINYVRLCLVLFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHLYYVNVLYYTLVILLLYLLVTIIVLIYI  
NLNYFIKLTGYIKIIYIFYLRYYFSILGFQFIYIILCITLHLALANLLFPLVWNNDLLIHWFESKK  
EIRNIFLLLLLFLKNIHFALPFSCIKMNDIKNKYLNYSYVILSYIATIIRSCINTCTCLISCSCLCYSC  
KKNYGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSYIRYSISWLKCEIRFSRFSKYSSINLINKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRGPNLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFYMIKDIVNHRCESTKKKHMGTFLPLLGESELVSGFMTEHAAVF  
VFFFЛАЕYGSIVLМСILTSILFIGGYLLFEISYVFTVNYIFFELFFIDVTFVEVQSLYTDFLNNSIIЕ  
GLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEEGNRSRTILVNNYTYTKIYHTRECNYTLFLYSTLLAYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNY

>YN154

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIIILKKCSFIHTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLFLLLHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICSYFIFSHFYICSSSLSRKIYFRVWFPPFRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVKLRQKTKPTKGLMGSYKKMITYIYIISYYIFTITRIIYIYIILLYIKIIIIIRYNYSILLY  
KNIIYPIINFIFFLIIFFYIMLTHLQMKRKYCCYSSGYRKIFLYYLFLGSFSVRGYMDGRRVFILE  
MNSGFKLTLFMNLNNYINYINVGYDRIMYSLRVKRDPTYNTYWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDKHLFFYLLLLYCEINNNYIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LJHWFFDSKKRVMNNFLDOKYYFLOKAYAFHFFDKOLLLIGCLLVLTITKFFOFLYKFKEYKVIH

YNILTLSMRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLTLQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYLCLYLLFCTLHFMILLVQAILLVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIILWLILCKLLLLLNDTYYLSMLFDLYLINYVLRCVLFLLCYY  
LLQIVDLEVNLVDHLVKLSEFLISFCNVLNTLKHLYVNVLYYTIVLVLVLLYLLVTHVLIYI  
NLNYFIKLTGYIKIIYIFYLRYYFSILGFQFIYIILCITLHLALANLLFPLVWNNDLIIHWFFESKK  
EIRNIFLLLILFLKNIHFALPSCIKMNDIKNKYLNYSVILSYIATIIRSCINTCTCLISCSCYSC  
KKNYGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNHRCESTKKHMGTHLPLLGESELVSGFMTEHAAVVF  
VFFF LAEYGSIVL MCLTSILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDLNNSIIE  
GLYGFNLGLKSSLMIFTFIARASFPRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN157

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFSLFTFRFRNIIIFPFRSVCWYLWSFSYFNFYSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIIYPIINFIFLIIFFYIMLTHLQM KRTKYCCSSGYRKIFLYYLFLLLGSFSVRGYMDGRRVFIL  
MNSGFKLTLFMNLNYNINVGYDRIMYSLRVKRDTPTYWFRVEYIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDKHLFFYLLLLYCEINNNYIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTLSMRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLTLQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYLCLYLLFCTLHFMILLVQAILLVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIILWLILCKLLLLLNDTYYLSMLFDLYLINYVLRCVLFLLCYY  
LLQIVDLEVNLVDHLVKLSEFLISFCNVLNTLKHLYVNVLYYTIVLVLVLLYLLVTHVLIYI  
NLNYFIKLTGYIKIIYIFYLRYYFSILGFQFIYIILCITLHLALANLLFPLVWNNDLIIHWFFESKK  
EIRNIFLLLILFLKNIHFALPSCIKMNDIKNKYLNYSVILSYIATIIRSCINTCTCLISCSCYSC  
KKNYGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNHRCESTKKHMGTHLPLLGESELVSGFMTEHAAVVF  
VFFF LAEYGSIVL MCLTSILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDLNNSIIE  
GLYGFNLGLKSSLMIFTFIARASFPRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN158

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI

LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTKIIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIRYNYSILLY  
KNIIYPIINFIFLIIFFYIMLTHLQMKTCKYCCSSGYRKIFLYYLFLGSFSVRGMDGRRVFL  
MNSGFKLTLFMNLNYNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFSDKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRHNVQVTLTCEILVHYLFVYKLLPVLHLCIIVLVWKLTTQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRCHYEVLQFLLEGKI  
LLNSFEVVFLIMPLTDFHYIYCLLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIIWLILCKLLLLYLDTYYLSMLFDLYLINYVRLCLVFLLCYY  
LLQIVDLEVNLHDHVKLSEFLLISFCNVLNTLKHLYYVNVLYYTLVILLYYLLVIIYIYI  
NLNYFIKLTGYIKIIYIFYLRYYFSILGFQFIYIILCITLHLALANLLFPLVWNNDLIIHWFFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKLYNNSYVILSYIATIIRSCINTCTCLISCSCYSC  
KKNGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSYIRYSISWLCEIRFSRFSKYSSINLINKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYIYLFIYMIKDIVNHRCESTKKHMGTLPGESELVSGFMTEAAVVF  
VFFF LAEYGSIVL MCLTSILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDLNNSIIE  
GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPGYSTEEGNRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN161

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTKIIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIRYNYSILLY  
KNIIYPIINFIFLIIFFYIMLTHLQMKTCKYCCSSGYRKIFLYYLFLGSFSVRGMDGRRVFL  
MNSGFKLTLFMNLNYNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFSDKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRHNVQVTLTCEILVHYLFVYKLLPVLHLCIIVLVWKLTTQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRCHYEVLQFLLEGKI  
LLNSFEVVFLIMPLTDFHYIYCLLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIIWLILCKLLLLYLDTYYLSMLFDLYLINYVRLCLVFLLCYY  
LLQIVDLEVNLHDHVKLSEFLLISFCNVLNTLKHLYYVNVLYYTLVILLYYLLVIIYIYI  
NLNYFIKLTGYIKIIYIFYLRYYFSILGFQFIYIILCITLHLALANLLFPLVWNNDLIIHWFFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKLYNNSYVILSYIATIIRSCINTCTCLISCSCYSC  
KKNGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSYIRYSISWLCEIRFSRFSKYSSINLINKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYIYLFIYMIKDIVNHRCESTKKHMGTLPGESELVSGFMTEAAVVF  
VFFF LAEYGSIVL MCLTSILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDLNNSIIE  
GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF

LTHPPALLPQGYSTYEEGNSRTILVNNYTYTKIYHTRECNYTLFLYSTLLGGYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN166

ITILKNIKSYIKIHHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILMVKLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFLFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIYPIINFIFLIIFFYIMLTHLQMKRTKYCCSSGYRKIFLYYLFLGSFSVRGYMDGRRVFL  
MNSGFKLTLFMNLNYNINVGYDRIMYSLRVKRDTPTYNTYWFRVEIYLRVKNIYIQLYIINIVI  
YWYGLNQVYILSFSDKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRHNVQTVLTCIELVHYLFVYKLLPVLHLCIVLVWKLITQSIEMLTGDFVYIIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLYWLSVSVMFYLMRDCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYCLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIILWLILCKLLLLYLDTYYLSMLFDLYLINYVRLCLVFLLCYY  
LLQIVDLEVYNLDHVLVKLSEFLLISFCNVLNTLKIHYVNVLYYTLVILLLYLLVTIIVLIYI  
NLNYFIKLTGYIKIYIYIFYLRYYFSILGFQFIYIILCITLHLALANLLFPLVWNNDLHWWFESKK  
EIRNIFLLLILFLKNIHFAFPSCIKMNDIKNKYLNYSYVILSYIATIIRSCINTCTCLISCSLCYSC  
KKNYGYAKKIRSCCRLWTIASCCLKTFIKRICSSYTIYCSFLFRSCNNFNCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSYIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFYMIKDIVNHRCESTKKHMGTHLPLGESELVSGFMTEHAAVF  
VFFF LAEYGSIVL MCI L TSILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDLNNSIIE  
GLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEEGNSRTILVNNYTYTKIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN179

ITILKNIKSYIKIHHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILMVKLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFLFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIYPIINFIFLIIFFYIMLTHLQMKRTKYCCSSGYRKIFLYYLFLGSFSVRGYMDGRRVFL  
MNSGFKLTLFMNLNYNINVGYDRIMYSLRVKRDTPTYNTYWFRVEIYLRVKNIYIQLYIINIVI  
YWYGLNQVYILSFSDKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRHNVQTVLTCIELVHYLFVYKLLPVLHLCIVLVWKLITQSIEMLTGDFVYIIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLYWLSVSVMFYLMRDCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYCLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIILWLILCKLLLLYLDTYYLSMLFDLYLINYVRLCLVFLLCYY  
LLQIVDLEVYNLDHVLVKLSEFLLISFCNVLNTLKIHYVNVLYYTLVILLLYLLVTIIVLIYI  
NLNYFIKLTGYIKIYIYIFYLRYYFSILGFQFIYIILCITLHLALANLLFPLVWNNDLHWWFESKK  
EIRNIFLLLILFLKNIHFAFPSCIKMNDIKNKYLNYSYVILSYIATIIRSCINTCTCLISCSLCYSC

KKNYGYAKKIRSCCRLWTIASICCLTFIKRICSSYTIYCSFLFRSCNNFNCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSYIRYSISWLKCEIRFSRFSKYSSINLINKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFFSRGPANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNHRCESTKKKHMGTLPPLLGESELVSGFMTEHAAVVF  
VFFFRAEYGSIVLMCILTSILFIGGYLLFEISYVFTVVNVYIFFELFFIDVTFVEVQSLYTDFLNNSII  
GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNTYTKTIYHTRECNYTLFLYSTLLGYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN199

ITILKNIKSYIKIILHYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFLFTFRFRNIINFPFRSVCWYLSFSYFNFYSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVKLRQTKPKTGMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIYPIINFIFLIIFFYIMLTHLQMKTCKYCCYSSGYRKIFLYYLFLGSFSVRGYMDGRRVFL  
MNSGFKLTLFMNLNYNYINVGYDRIMYSLRVKRDPTYNTWFRVEIYLRLVKNIYIQYIINIVI  
YWYGLNQVYILSFDFKHLFFYLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRHNVQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLLTQSIEMIITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMDRCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDLHYIILYCLLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFYVLLYSLCLMFGIVIIILWLILCKLLLLLNDTYYLSMLFDLYLINYVRLCLVFLCY  
LLQIVDLEVYNLDHVLVKLSEFLLISFCNVLNTLKIHLYYVNLYYTIVLILLYYLLVTIIVLIYLI  
NLNYFIKLTKYIKIILYIYFLRYYFSILGFQFIIYIILCITLHLALANLLFPLVWNNDLLIHWFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNYSVILSYIATIIRSCINTCTCLISCSLCYSC  
KKNYGYAKKIRSCCRLWTIASICCLTFIKRICSSYTIYCSFLFRSCNNFNCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSYIRYSISWLKCEIRFSRFSKYSSINLINKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFFSRGPANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNHRCESTKKKHMGTLPPLLGESELVSGFMTEHAAVVF  
VFFFRAEYGSIVLMCILTSILFIGGYLLFEISYVFTVVNVYIFFELFFIDVTFVEVQSLYTDFLNNSII  
GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN208

ITILKNIKSYIKIILHYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFLFTFRFRNIINFPFRSVCWYLSFSYFNFYSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVKLRQTKPKTGMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIYPIINFIFLIIFFYIMLTHLQMKTCKYCCYSSGYRKIFLYYLFLGSFSVRGYMDGRRVFL  
MNSGFKLTLFMNLNYNYINVGYDRIMYSLRVKRDPTYNTWFRVEIYLRLVKNIYIQYIINIVI  
YWYGLNQVYILSFDFKHLFFYLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRHNVQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLTTQSIEMIITGDFVIYIVIQL

LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYLCLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFPLYVLLYSLCLMFGIVIIILWLICLKLILLNNDTYYLSMLFDLYLINYVLRCVLFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHLYYVNVLYYTLVILLLYLLVTIIVLIYLI  
NLNYFIKLTGYIKIIIYIFYLRYYSILGFQFIIYIILCITLHLALANLLFPLVWNNDLLIHWFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNYSVILSYIATIIRSCINTCTCLISCSCYCSC  
KKNYGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNRCESTKKKHMGTLLGESELVSGFMTEHAAVVF  
VFFFLAEYGSIVLMCILTSILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDFLNNSIIE  
GLLYGPNLGLKSSLMIFTFIARASFPRIRFDQMGCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTEEGNRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFFHHFLIQNTNF

>YN220

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIIILKKCSFIHLTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFYSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVQLRQKTKPTKGLMGSSYKKMITYIYSSYYIFTITRIIIYIYIILLYIKIIIIRYNSILLY  
KNIIYPIINFIFFLIIFFYIMLTHLQMKT KYCCYSSGYRKIFLYYLFLGSFSVRGYMDGRRVFIL  
MNSGFKLTLFMNLNYNYINVGYDRIMYSLRVKRDPTYNTYWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSF DKLHFFYLLLLYCEINNNYIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLLTQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYLCLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFPLYVLLYSLCLMFGIVIIILWLICLKLILLNNDTYYLSMLFDLYLINYVLRCVLFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHLYYVNVLYYTLVILLLYLLVTIIVLIYLI  
NLNYFIKLTGYIKIIIYIFYLRYYSILGFQFIIYIILCITLHLALANLLFPLVWNNDLLIHWFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNYSVILSYIATIIRSCINTCTCLISCSCYCSC  
KKNYGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNRCESTKKKHMGTLLGESELVSGFMTEHAAVVF  
VFFFLAEYGSIVLMCILTSILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDFLNNSIIE  
GLLYGPNLGLKSSLMIFTFIARASFPRIRFDQMGCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTEEGNRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFFHHFLIQNTNF

>YN226

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIIILKKCSFIHLTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFYSYNNYRIYIIRKRSNRQQTKIYTIERLPYR

VCWNRGFVKLRQTKKPTKGLMGSYKKMITYIYSYYIFTITRIIIYIYIILLYIKIIIIIRYNYSILLY  
KNIIYPIINFIFFLIIIFFYIMLTHLQMCKRTKYCCYSSGYRKIFLYYLFLGSFSVRGYMDGRRVFIL  
MNSGFKLTLFMNLNYNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDFKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVMNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLVLITKFFQFLYKFKEYKV  
YNILTSRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLTLTQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRDCHYEVLQFLLLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIILYCLLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLK  
LYLFLYVLLYSLCLMFGIVIIIWLICLCKLLLLNDTYYLSMLFDLYLINYVLRCVLFLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHLYYVNVLYYTLVILLYYLLVHIVLIYI  
NLNYFIKLTGYIKIIYIFYLRYYFSILGFQFIIYIILCITLHLANANLLFPLVWNNDLLIHWF  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNYSVILSYIATIIRSCINTCTCLISC  
KKNGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNCIIRLRCYTLWS  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDN  
RKFKNCL YISKSYIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFK  
NKRQLAGNLIP NKYIILFIDTQFNIYIYLFIYMIKDIVNHRCESTKKHMGTHLPLLGESEL  
VSGFMTEHAAVVF VFFF LAEYGSIVL MCI L TSILFIGGYLLFEISYVFTVVNYIFFELFF  
IDVTFVEVQSLYTDFLNNSII E GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQ  
LMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPL LTHPPALLPQGYSTYE  
EGNRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFFHHFLIQNTN

>YN228

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYY  
SCLIK NDVWVLYWYNLYLAINEYDIYRVCICYSYFISHFYICSSLSRKIYFRVWF  
PFFRAKNTIRYK LYFCFSLFTFRFRNIINFPRSRVCWYLWSFSYFN  
FYSYNNYRIYIIRKRSNRQQT  
KIIYTIERLPYR VCWNRGFVKLRQTKKPTKGLMGSYKKMITYIYSYYIFTITRIIIYIYIILLYIKIIIIIR  
YNILTSRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLTLTQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRDCHYEVLQFL  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHLYYVNVLYYTLVILLYYLLVHIVLIYI  
NLNYFIKLTGYIKIIYIFYLRYYFSILGFQFIIYIILCITLHLANANLLFPLVWNNDLLIHWF  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNYSVILSYIATIIRSCINTCTCLISC  
KKNGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNCIIRLRCYTLWS  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRF  
SKYSSINLINIKFSYINSNYDN  
RKFKNCL YISKSYIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFK  
NKRQLAGNLIP NKYIILFIDTQFNIYIYLFIYMIKDIVNHRCESTKKHMGTHLPLLGESEL  
VSGFMTEHAAVVF VFFF LAEYGSIVL MCI L TSILFIGGYLLFEISYVFTVVNYIFFELFF  
IDVTFVEVQSLYTDFLNNSII E GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQ  
LMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPL LTHPPALLPQGYSTYE  
EGNRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL

LGYINKKFVNFFHHFLIQNTNY

>YN232

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLFLLLHFYYSLIK  
NDVWVLYWYNLYLAINEYDIIYRVCICYSYFIFSHFYICSSLSRKIYFRVWPFFRAKNTIRYKI  
LYFCFSLEFTFRFRNIINFPRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTIIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILYKIIIIRYNYSILLY  
KNIIYPIINFIFFLIIFFYIMLTHLQMKTCKYCCYSSGYRKIFLYYLFLGSFSVRGMDGRRVFILE  
MNSGFKLTLMNLNNYINVGYDRIMYSLRVKRDTPTYNTWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDFKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVRNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKV  
YNILTSMRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRDCHYEVLQALLLVLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIILYCLLYLLFCTLHMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIILWLICKLQLLNDTYYLMLFDLYLINVLRCLVFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLISFCNVLNTLKIHLYYVNVLYYTLVILLYYLLVTIVLIYLI  
NLNYFIKLTGYIKIIYIYFLRYYSILGFQIYIILCITLHLALANLLPVLWNNDLHWFFESKK  
EIRNIFLLLFLKNIHFALPFSCIKMNDIKNKYLNSYVILSYIATIIRSCINTCTCLISCSCYSC  
KKNYGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSYIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNHRCESTKKKHMGTLPGESELVSGFMTEHAAVVF  
VFFF LAEYGSIVL MCI LTSILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDFLNN  
GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINF AIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN239

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLFLLLHFYYSLIK  
NDVWVLYWYNLYLAINEYDIIYRVCICYSYFIFSHFYICSSLSRKIYFRVWPFFRAKNTIRYKI  
LYFCFSLEFTFRFRNIINFPRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTIIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILYKIIIIRYNYSILLY  
KNIIYPIINFIFFLIIFFYIMLTHLQMKTCKYCCYSSGYRKIFLYYLFLGSFSVRGMDGRRVFILE  
MNSGFKLTLMNLNNYINVGYDRIMYSLRVKRDTPTYNTWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDFKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVRNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKV  
YNILTSMRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRDCHYEVLQALLLVLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIILYCLLYLLFCTLHMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIILWLICKLQLLNDTYYLMLFDLYLINVLRCLVFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLISFCNVLNTLKIHLYYVNVLYYTLVILLYYLLVTIVLIYLI  
NLNYFIKLTGYIKIIYIYFLRYYSILGFQIYIILCITLHLALANLLPVLWNNDLHWFFESKK  
EIRNIFLLLFLKNIHFALPFSCIKMNDIKNKYLNSYVILSYIATIIRSCINTCTCLISCSCYSC  
KKNYGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW

FRDKRHEFRYILHVSCVIFSYIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFFSRGPANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNHRCESTKKKHMGTHLPLLGESELVSGFMTEHAAVVF  
VFFFRAEYGSIVLMCILTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDFLNNSIIE  
GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN247

ITILKNIKSYIKIILHYSINLKIGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILMVKLLIETIKYMLNLIQMLCLVLWQLFLLHFYYSCLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPFRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTIIYTIERLPYR  
VCWNRGFVKLRQTKPKTGMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIIYPIINFIFFLIIFFYIMLTHLQMKTCKYCCYSSGYRKIFLYYLFLGSFSVRGYMDGRRVFL  
MNSGFKLTLFMNLNNYINVGYDRIMYSLRVKRDTPTYNTWFRVEYIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDFKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLVLITKFFQFLYKFKEYKVIH  
YNILTLSMRHNQVLTCEILVHYLFVYKLLPVLHLCIVLVWKLTSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRDCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYCLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIILWLILCKLLLLYLNDDTYYLSMLFDLYLINYVLRCVLFLCYY  
LLQIVDLEVYNLDHLVKLSEFLLIIFCNVLNTLKIHLYYVNVLYYTLVILLLYLLVTIIVLIYI  
NLNYFIKLTKYIKIYIYIFYLRYYFSILGFQFIYIILCITLHLALANLLPVLVWNNDLIIHWFFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNYSYVILSYIATIIRSCINTCTCLISCSLCYSC  
KKNYGYAKKIRSCCRLWTIASCCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSYIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFFSRGPANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNHRCESTKKKHMGTHLPLLGESELVSGFMTEHAAVVF  
VFFFRAEYGSIVLMCILTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDFLNNSIIE  
GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN268

ITILKNIKSYIKIILHYSINLKIGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILMVKLLIETIKYMLNLIQMLCLVLWQLFLLHFYYSCLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPFRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTIIYTIERLPYR  
VCWNRGFVKLRQTKPKTGMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIIYPIINFIFFLIIFFYIMLTHLQMKTCKYCCYSSGYRKIFLYYLFLGSFSVRGYMDGRRVFL  
MNSGFKLTLFMNLNNYINVGYDRIMYSLRVKRDTPTYNTWFRVEYIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDFKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLVLITKFFQFLYKFKEYKVIH  
YNILTLSMRHNQVLTCEILVHYLFVYKLLPVLHLCIVLVWKLTSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRDCHYEVLQLLLILLVLYLEGKI

LLNSFEVVFLIMPLTDFLHYIYLCLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIILWLILCKLLLLLYLNDTYYLSMLFDLYLINYVLRCLVLFLLCYY  
LLQIVDLEVNLVDHLVKLSEFLISFCNVLNTLKHLYYVNVLYYTLVILLLYLLVTIIVLIYI  
NLNYFIKLTGYIKIIYIFYLRYYFSILGFQFIYIILCITLHLALANLLFPLVWNNDLLIHWFESKK  
EIRNIFLLLILFLKNIHFALPSCIKMNDIKNKLYNNSYVILSYIATIIRSCINTCTCLISCSLCYSC  
KKNYGYAKKIRSCCRLWTIASICCLTKFICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFFSRGPANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNHRCESTKKHMGTLPGESELVSGFMTEHAAVVF  
VFFFIAEYGSIVLMCILTSILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDLNNSIIE  
GLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN271

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSCLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPRSVCWYLSFSYFNFYSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIIYPIINFFLIIFFYIMLTHLQMKTGYCCSSGYRKIFLYYLFLLGFSVVRGYMDGRRVFIL  
MNSGFKLTLFMNLNNYINVGYDRIMYSLRVKRDTPTYWFRVEYIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDKHLFFYLLLLYCEINNNYIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIIH  
YNILTLSMRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLLTQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYLCLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIILWLILCKLLLLLYLNDTYYLSMLFDLYLINYVLRCLVLFLLCYY  
LLQIVDLEVNLVDHLVKLSEFLISFCNVLNTLKHLYYVNVLYYTLVILLLYLLVTIIVLIYI  
NLNYFIKLTGYIKIIYIFYLRYYFSILGFQFIYIILCITLHLALANLLFPLVWNNDLLIHWFESKK  
EIRNIFLLLILFLKNIHFALPSCIKMNDIKNKLYNNSYVILSYIATIIRSCINTCTCLISCSLCYSC  
KKNYGYAKKIRSCCRLWTIASICCLTKFICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFFSRGPANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNHRCESTKKHMGTLPGESELVSGFMTEHAAVVF  
VFFFIAEYGSIVLMCILTSILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDLNNSIIE  
GLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN283

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSCLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPRSVCWYLSFSYFNFYSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY

KNIIYPIINFIFFLIIFFYIMLTHLQMKRTKYCCYSSGYRKIFLYYLFLGSFSVRGYMDGRRVFIL  
MNSGFKLTLMNLYNINVGYDRIMYSLRVKRDTPYNTYWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRHNQVTLTCEILVHYKLLPVLHLCIIVLVWKLITQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRDCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYLCLYLLFCTLHFMILLVQAILVQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIIWLILCKLLLLYLNDDTYYLMLFDLYLINYVLRCVLFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVNLTKIHLYYVNVLVYTLVILLLYLLVTLVLIYI  
NLNYFIKLTKYIKIIYIFYLRYYSILGFQFIYIILCITLHLALANLLFPLVWNNDLIIHWFFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNYSYVILSYIATIIRSCINTCTCLISCSCYSC  
KKNGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIINKFIDTQFNIYIYLFIYMIKDIVNHRCESTKKHMGTHLPLLGESELVSGFMTEHAAVVF  
VFFF LAEYGSIVL MCI LTSILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDFLNNSIIE  
GLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFC T VLLPINF AIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTEEGNRSRTILVNNYTYT KTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN311

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILMVKLLIETIKYMLNLIQMLCLVLWQLFLLLHFYYSLIK  
NDVWVLYWYNLYLAINEDIIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPMFFRAKNTIRYKI  
LYFCFSLFTFRFRNIIIFPFRSVCWYLWSFSYFNFYSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVKLRQKTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIRYNYSILLY  
KNIIYPIINFIFFLIIFFYIMLTHLQMKRTKYCCYSSGYRKIFLYYLFLGSFSVRGYMDGRRVFIL  
MNSGFKLTLMNLYNINVGYDRIMYSLRVKRDTPYNTYWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRHNQVTLTCEILVHYKLLPVLHLCIIVLVWKLITQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRDCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYLCLYLLFCTLHFMILLVQAILVQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIIWLILCKLLLLYLNDDTYYLMLFDLYLINYVLRCVLFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVNLTKIHLYYVNVLVYTLVILLLYLLVTLVLIYI  
NLNYFIKLTKYIKIIYIFYLRYYSILGFQFIYIILCITLHLALANLLFPLVWNNDLIIHWFFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNYSYVILSYIATIIRSCINTCTCLISCSCYSC  
KKNGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIINKFIDTQFNIYIYLFIYMIKDIVNHRCESTKKHMGTHLPLLGESELVSGFMTEHAAVVF  
VFFF LAEYGSIVL MCI LTSILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDFLNNSIIE  
GLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFC T VLLPINF AIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTEEGNRSRTILVNNYTYT KTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN314

ITILKNIKSYIKIHLYSINLKGIFSILYLVLLFSLLQVFLLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIIILKKCSFIHLTINTKKLKIILMVKLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFLSTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSKKMMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIYPIINFIFLIIFFYIMLTHLQMKTCKYCCSSGYRKIFLYYLFLGSFSVRGMDGRRVFL  
MNSGFKLTLFMNLNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFSDKHLFFYLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDKQYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRHNQVTLTCIELVHYLFVYKLLPVLHLCIVLVWKLTTQSIEMLTGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLYWLSVSVMFYLMRDCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYCLYLLFCTLHFMILLVQAILLQVQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIWLILCKLLLLYLNDDTYYLSMLFDLYLINYVRLCLVLFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHYVNVLYYTLVILLLYLLVTIVLIYLI  
NLNYFIKLTGYIKIYIYIFYLRYYFSILGFQFIYIILCITLHLALANLLFPLVWNNDLHWFESKK  
EIRNIFLLLILFLKNIHFAFPSCIKMNDIKNKLYNYSVILSYIATIIRSCINTCTCLISCSCYSC  
KKNGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSYIRYSISWLCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYIYLFIYMIKDIVNHRCESTKKHMGTHLPLLGESELVSGFMTEHAAVVF  
VFFF LAEYGSIVL MCI L TSILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDLNNSIIE  
GLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTEEGNRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNY

>YN352

ITILKNIKSYIKIHLYSINLKGIFSILYLVLLFSLLQVFLLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIIILKKCSFIHLTINTKKLKIILMVKLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFLSTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSKKMMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIYPIINFIFLIIFFYIMLTHLQMKTCKYCCSSGYRKIFLYYLFLGSFSVRGMDGRRVFL  
MNSGFKLTLFMNLNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFSDKHLFFYLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDKQYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRHNQVTLTCIELVHYLFVYKLLPVLHLCIVLVWKLTTQSIEMLTGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLYWLSVSVMFYLMRDCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYCLYLLFCTLHFMILLVQAILLQVQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIWLILCKLLLLYLNDDTYYLSMLFDLYLINYVRLCLVLFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHYVNVLYYTLVILLLYLLVTIVLIYLI  
NLNYFIKLTGYIKIYIYIFYLRYYFSILGFQFIYIILCITLHLALANLLFPLVWNNDLHWFESKK  
EIRNIFLLLILFLKNIHFAFPSCIKMNDIKNKLYNYSVILSYIATIIRSCINTCTCLISCSCYSC  
KKNGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSYIRYSISWLCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL

YISKSYLIYTTFISCVYNIFHRIYSDKSSFFSRGPANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIIKLFIDTQFNIIYIYLFIYMIKDIVNHRCESTKKKHMGTLPPLLGESELVSGFMTEHAAVVF  
VFFFBLAEYGSIVLMCILTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDFLNNSIIIE  
GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN355

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPFRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLSFSYFNFYSYNNYRIYIIRKRSNRQQTKIIYTIERLPYR  
VCWNRGFVKLRQKTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIYPIINFIFLIIFFYIMLTHLQMKTCKYCCYSSGYRKIFLYYLFLGSFSVRGYMDGRRVFL  
MNSGFKLTLFMNLNYNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEIYLRVKNIYIYIINIVI  
YWYGLNQVYILSFSDKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRHNVQTVLTCIELVHYLFVYKLLPVLHLCIVLVWKLLTQSIEMLITGDFVYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLYWLSVSVMFYLMRDCHYEVLQLLLVLVLEGKI  
LLNSFEVVFLIMPLTDLHYIYCLLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFYVLLYSLCLMFGIVIIWLJLCKLLLLYLNDDTYYLSMLFDLYLINYVLRCVLFLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHLYYVNVLYYTLVILLLYLLVTIIVLIYI  
NLNYFIKLTKYIKIIYIYFLRYYFSILGFQFIIYIILCITLHLLALANLLFPLVWNNDLIIHWFFESKK  
EIRNIFLLLFLKNIHFALPFSCIKMNDIKNKYLNYSVILSYIATIIRSCINTCTCLISCSCYCSC  
KKNYGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSYIRYSISWLKCEIRFSRFSKYSSINLINKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFFSRGPANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIIKLFIDTQFNIIYIYLFIYMIKDIVNHRCESTKKKHMGTLPPLLGESELVSGFMTEHAAVVF  
VFFFBLAEYGSIVLMCILTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDFLNNSIIIE  
GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN358

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPFRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLSFSYFNFYSYNNYRIYIIRKRSNRQQTKIIYTIERLPYR  
VCWNRGFVKLRQKTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIYPIINFIFLIIFFYIMLTHLQMKTCKYCCYSSGYRKIFLYYLFLGSFSVRGYMDGRRVFL  
MNSGFKLTLFMNLNYNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEIYLRVKNIYIYIINIVI  
YWYGLNQVYILSFSDKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRHNVQTVLTCIELVHYLFVYKLLPVLHLCIVLVWKLTTQSIEMLITGDFVYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLYWLSVSVMFYLMRDCHYEVLQLLLVLVLEGKI  
LLNSFEVVFLIMPLTDLHYIYCLLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF

LYLFLYVLLYSLCLMFGIVIILWLILCKLLLLYNDTYYLSMLFDLYLINYVLRCVLFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHLYYVNVLVILLYYLLVTIIVLIYLI  
NLNYFIKLTGYIKIIYIFYLRYYSILGFQFIIYIILCITLHLALANLLPVLWNNDLLIHWFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNYSYVILSYIATIIRSCINTCTCLISCSCYSC  
KKNYGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFFSRGPANLVWSGYMSQIARKPFYFKNKRQLAGNLP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNRCESTKKKHMGTLPPLLGESELVSGFMTEHAAVVF  
VFFFGLAEYGSIVLMCILTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDLNNSIIE  
GLLYGPNLGLKSSLMIFTFIARASFPRIRFDQLMGCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFFHHFLIQNTNF

>YN359

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFSLEFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFBVKLQRKTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNSILLY  
KNIYPIINFIFFLIIFFYIMLTHLQMKTCKYCCSSGYRKIFLYYLFLLGFSVRGMDGRVRFIL  
MNSGFKLTLFNMNLNNYINVGYDRIMYSLRVKRDPTYNTYWFRVEIYLRVKNIYIYQIINIVI  
YWYGLNQVYILSFDFKHLFFYLLLLYCEINNNYIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVRNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRHQNQVTLVTCEILVHYLFVYKLLPVLHLCIVLVWKLITQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRCHYEVLQLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDLHYIYCLYLLFCTLHFMILLVQAILLVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIILWLILCKLLLLYNDTYYLSMLFDLYLINYVLRCVLFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHLYYVNVLVILLYYLLVTIIVLIYLI  
NLNYFIKLTGYIKIIYIFYLRYYSILGFQFIIYIILCITLHLALANLLPVLWNNDLLIHWFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNYSYVILSYIATIIRSCINTCTCLISCSCYSC  
KKNYGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFFSRGPANLVWSGYMSQIARKPFYFKNKRQLAGNLP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNRCESTKKKHMGTLPPLLGESELVSGFMTEHAAVVF  
VFFFGLAEYGSIVLMCILTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDLNNSIIE  
GLLYGPNLGLKSSLMIFTFIARASFPRIRFDQLMGCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFFHHFLIQNTNF

>YN365

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFSLEFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFBVKLQRKTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNSILLY  
KNIYPIINFIFFLIIFFYIMLTHLQMKTCKYCCSSGYRKIFLYYLFLLGFSVRGMDGRVRFIL

MNSGFKLTLMNMLNNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVRNNFLDQKYFLQKAYAFHFFDKQLLIFGCLVLITKFFQFLYKFKEYKVIH  
YNILTSRMRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLTLTQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMDRCHYEVLQLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYLCLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIWLILCKLLLLLNDTYYLSMLFDLYLINYVLRCVLFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHLYYVNVLVLLYYLLVHIVLIYLI  
NLNYFIKLTKYIKIIYIFYLRYYSILGFQFIIYIILCITLHLALANLLFPLVWNNDLLIHWFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNSYVILSYIATIIRSCINTCTCLISCSCYCSC  
KKNGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYIYTTFISCVYNIFHRIYSDKSSFSRGPNLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNHRCESTKKKHMGTLPPLLGESELVSGFMTEHAAVVF  
VFFFЛАЕYGSIVLМСILTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDFLNNSIIE  
GLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEEGNRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN376

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFISHFYICSSLSRKIYFRVWFPRAKNTIRYKI  
LYFCFSLEFTFRFRNIINFPRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTKIIYTIERLPYR  
VCWNRGFVCLRQKTKPTKGLMGSYKKMITYIYSSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIIYPIINFIFLIIFFYIMLTHLQMKTCKYCCYSSGYRKIFLYYLFLGSFSVRGYMDGRRVFL  
MNSGFKLTLMNMLNNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVRNNFLDQKYFLQKAYAFHFFDKQLLIFGCLVLITKFFQFLYKFKEYKVIH  
YNILTSRMRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLTLTQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMDRCHYEVLQLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYLCLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIWLILCKLLLLLNDTYYLSMLFDLYLINYVLRCVLFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHLYYVNVLVLLYYLLVHIVLIYLI  
NLNYFIKLTKYIKIIYIFYLRYYSILGFQFIIYIILCITLHLALANLLFPLVWNNDLLIHWFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNSYVILSYIATIIRSCINTCTCLISCSCYCSC  
KKNGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYIYTTFISCVYNIFHRIYSDKSSFSRGPNLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNHRCESTKKKHMGTLPPLLGESELVSGFMTEHAAVVF  
VFFFЛАЕYGSIVLМСILTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDFLNNSIIE  
GLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEEGNRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN390

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLFLLLHFYYSLIK  
NDVVWLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWPFFRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTIIYTIERLPYR  
VCWNRGFVCLRQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILYKIIIIRYNYSILLY  
KNIIYPIINFIFFLIIFFYIMLTHLQMCKRTKYCCYSSGYRKIFLYYLFLGSFSVRGMDGRRVFILE  
MNSGFKLTLFMNLNYNINVGYDRIMYSLRVKRDPTYNTWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDFKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVRNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRHNQVTLVTCEILVHYLFVKLLPVLHLCIVLVWKLTTQSIEMLTGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLYWLSVSVMFYLMRDCHYEVLQLLLVLVYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYCLYLLFCTLHFMILLVQAILLVFQVITIELHLLHIFYLKILLF  
LYLFYVLLYSLCLMFGIVIIILWLILCKLLLLLNDTYYLSMLFDLYLINYVRCLVFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHLYYVNVLYYTLLVILLYYLLVTIIVLIYI  
NLNYFIKLTGYIKIIYIFYLRYYSILGFQFIYIILCITLHLALANLLFPLVWNNDLLIHWFESKK  
EIRNIFLLLILFLKNIHFAFPSCIKMNDIKNKYLNYSVILSYIATIIRSCINTCTCLISCSCYSC  
KKNGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSYIRYSISWLKCEIRFSRFSKYSSINLINKFSYINSYDNRKFKFNCL  
YISKSYIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILFIDTQFNIYIYLFIYMIKDIVNHRCESTKKHMGTHLPLLGESELVSGFMTEHAAVVF  
VFFF LAEYGSIVL MCI LTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDFLNN  
GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINF AIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLGYYYLYMIIILLNL  
LGYINKKFVNFFFHHFLIQNTNF

>YN391

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLFLLLHFYYSLIK  
NDVVWLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWPFFRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTIIYTIERLPYR  
VCWNRGFVCLRQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILYKIIIIRYNYSILLY  
KNIIYPIINFIFFLIIFFYIMLTHLQMCKRTKYCCYSSGYRKIFLYYLFLGSFSVRGMDGRRVFILE  
MNSGFKLTLFMNLNYNINVGYDRIMYSLRVKRDPTYNTWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDFKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVRNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRHNQVTLVTCEILVHYLFVKLLPVLHLCIVLVWKLTTQSIEMLTGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLYWLSVSVMFYLMRDCHYEVLQLLLVLVYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYCLYLLFCTLHFMILLVQAILLVFQVITIELHLLHIFYLKILLF  
LYLFYVLLYSLCLMFGIVIIILWLILCKLLLLLNDTYYLSMLFDLYLINYVRCLVFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHLYYVNVLYYTLLVILLYYLLVTIIVLIYI  
NLNYFIKLTGYIKIIYIFYLRYYSILGFQFIYIILCITLHLALANLLFPLVWNNDLLIHWFESKK  
EIRNIFLLLILFLKNIHFAFPSCIKMNDIKNKYLNYSVILSYIATIIRSCINTCTCLISCSCYSC  
KKNGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSYIRYSISWLKCEIRFSRFSKYSSINLINKFSYINSYDNRKFKFNCL  
YISKSYIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP

NKYIILKFIDTQFNIYIYLFIYMIKDIVNRCESTKKKHMGTHLPLLGESELVSGFMTEHAAVVF  
VFFFLAEYGSIVLMCILTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDFLNNIIIE  
GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFFHHFLIQNTNF

>YN397

ITILKNIKSYIKIILHYSINLKIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILMVKLLIETIKYMLNLIQMLCLVLWQLFLLLHFYYSCLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPFRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTIIYTIERLPYR  
VCWNRGFVKLRQTKPKTGMGSYKKMITYIYSYYIFTITRIIYIYIILYKIIIIRYNYSILLY  
KNIIYPIINFIFLIIFFYIMLTHLQMKTCKYCCYSSGYRKIFLYLFLGSFSVRGYMDGRRVFIL  
MNSGFKLTLFMNLNNYINVGYDRIMYSLRVKRDTPTYNTWFRVEIYLRVKNIYIYIINIVI  
YWYGLNQVYILSFDFKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLITQSIEMLTGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRDCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYCLYLLFCTLHFMILLQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIILWLILCKLLLLYLDTYYLSMLFDLYLINYVLRCLVFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLIIFCNVLNTLKHLYYVNVLYYTLVILLLYLLVIIYI  
NLNYFIKLTCKYIKIYIYIFYLRYYFSILGFQFIIYIILCITLHLALANLLFPLVWNNDLIIHWFFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKLYNYSYVILSYIATIIRSCINTCTCLISCSLCYSC  
KKNYGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSYIRYSISWLCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNRCESTKKKHMGTHLPLLGESELVSGFMTEHAAVVF  
VFFFLAEYGSIVLMCILTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDFLNNIIIE  
GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFFHHFLIQNTNF

>YN398

ITILKNIKSYIKIILHYSINLKIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILMVKLLIETIKYMLNLIQMLCLVLWQLFLLLHFYYSCLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPFRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTIIYTIERLPYR  
VCWNRGFVKLRQTKPKTGMGSYKKMITYIYSYYIFTITRIIYIYIILYKIIIIRYNYSILLY  
KNIIYPIINFIFLIIFFYIMLTHLQMKTCKYCCYSSGYRKIFLYLFLGSFSVRGYMDGRRVFIL  
MNSGFKLTLFMNLNNYINVGYDRIMYSLRVKRDTPTYNTWFRVEIYLRVKNIYIYIINIVI  
YWYGLNQVYILSFDFKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLITQSIEMLTGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRDCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYCLYLLFCTLHFMILLQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIILWLILCKLLLLYLDTYYLSMLFDLYLINYVLRCLVFLLCYY

LLQIVDLEVYNLDHLVKLSEFLLLISFCNVLNTLKIHLYYVNVLYYTLVILLLYLLVTIIVLIYLI  
NLNYFIKLTGYIKIIYIFYLRYYSILGFQFIYIILCITLHLALANLLFPLVWNNDLLIHWFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNSYVILSYIATIIRSCINTCTCLISCSLCYSC  
KKNYGYAKKIRSCCRLWTIASICCLTKFICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFIMKDIVNHRCESTKKKHMGTLPPLLGESELVSGFMTEHAAVVF  
VFFF LAEYGSIVL MCI LTSILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDFLNNSIIE  
GLYGFNLGLKSSLMI FTFIARASFPRIRFDQLMGFC TVL LPI NFA II L VPC VLY SFNLLPVNIPLF  
LTHPPALLPQGY STYE EG NR SRT ILVNNYTYT KTI YHT REC NY TL FLY ST LLAY YY LY MI ILL NL  
LGYINKKFVNFFHHFLIQNTNF

>YN406

ITILKNIKSYIKIIHLYSINLK GIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLFLLHFYYSCLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPFRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFYSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNSILLY  
KNIIYPIINFIFLIIFFYIMLTHLQM KRTKYCCYSSGYRKIFLYYLFL LGFSV RG YM DGR RVFIL  
MNSGFKLTLFMNLNYN YINVGYDRIMYSLRVKRDTP TYNT WFR VEYIYLRVKNIYI QYIINIVI  
YWYGLNQVYI LSF D KHL FFYLL L CEIN N YNII LH STYL GIL SYLA IN DS N QI LF SLV WNN DL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTLSMRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLLTQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLM DRCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYCLYCLLFC TLH FMILLVQAI LLVMQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIILWLILCKLLLLYLN DTYYLSMLFDLYLINYVLRCLVLFL CYY  
LLQIVDLEVYNLDHLVKLSEFLLLISFCNVLNTLKIHLYYVNVLYYTLVILLLYLLVTIIVLIYLI  
NLNYFIKLTGYIKIIYIFYLRYYSILGFQFIYIILCITLHLALANLLFPLVWNNDLLIHWFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNSYVILSYIATIIRSCINTCTCLISCSLCYSC  
KKNYGYAKKIRSCCRLWTIASICCLTKFICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFIMKDIVNHRCESTKKKHMGTLPPLLGESELVSGFMTEHAAVVF  
VFFF LAEYGSIVL MCI LTSILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDFLNNSIIE  
GLYGFNLGLKSSLMI FTFIARASFPRIRFDQLMGFC TVL LPI NFA II L VPC VLY SFNLLPVNIPLF  
LTHPPALLPQGY STYE EG NR SRT ILVNNYTYT KTI YHT REC NY TL FLY ST LLAY YY LY MI ILL NL  
LGYINKKFVNFFHHFLIQNTNF

>YN410

ITILKNIKSYIKIIHLYSINLK GIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLFLLHFYYSCLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPFRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFYSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNSILLY  
KNIIYPIINFIFLIIFFYIMLTHLQM KRTKYCCYSSGYRKIFLYYLFL LGFSV RG YM DGR RVFIL  
MNSGFKLTLFMNLNYN YINVGYDRIMYSLRVKRDTP TYNT WFR VEYIYLRVKNIYI QYIINIVI

YWYGLNQVYILSFDKHLFFYLLLLYCEINNNYIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVLTITKFFQFLYKFKEYKVIH  
YNILTSMRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLTLTQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRDCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYLCLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIILWLILCKLLLLYLNDDTYYLSMLFDLYLINYVLRCLVLFLLCYY  
LLQIVDLEVYNLDLHVLKLESEFLISFCNVLNTLKIHLYYVNLYYTIVLVLVLLYYLLVHIVLIYI  
NLNYFIKLTGYIKIIYIFYLRYYFSILGFQFIYIILCITLHLALANLLFPLVWNNDLIIHWFFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNYSVILSYIATIIRSCINTCTCLISCSCYSC  
KKNYGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRGPNLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIICKFIDTQFNIYIYLFIYMIKDIVNHRCESTKKHMGTHLPLLGESELVSGFMTEHAAVVF  
VFFFЛАЕYGSIVLМСILTSILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDЛNNSIIЕ  
GЛYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLPINFАIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGSTYEEGNRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN427

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLFLLLHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFYSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIIYPIINFFILIIFFYIMLTHLQMKTЫКЦССГҮРКИFLYFLLLGSFSVRGYMDGRRVFIL  
MNSGFKLTLFMNLNYYINVGYDRIMYSLRVKRDTPTYNTYWFRVEYIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDKHLFFYLLLLYCEINNNYIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVLTITKFFQFLYKFKEYKVIH  
YNILTSMRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLTLTQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRDCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYLCLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIILWLILCKLLLLYLNDDTYYLSMLFDLYLINYVLRCLVLFLLCYY  
LLQIVDLEVYNLDLHVLKLESEFLISFCNVLNTLKIHLYYVNLYYTIVLVLVLLYYLLVHIVLIYI  
NLNYFIKLTGYIKIIYIFYLRYYFSILGFQFIYIILCITLHLALANLLFPLVWNNDLIIHWFFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNYSVILSYIATIIRSCINTCTCLISCSCYSC  
KKNYGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRGPNLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIICKFIDTQFNIYIYLFIYMIKDIVNHRCESTKKHMGTHLPLLGESELVSGFMTEHAAVVF  
VFFFЛАЕYGSIVLМСILTSILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDЛNNSIIЕ  
GЛYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLPINFАIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGSTYEEGNRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN435

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV

LEGFIILKKCSFIHTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLFLLLHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFLSFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTKIIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIIYPIINFIFLIIFFYIMLTHLQMKTCKYCCYSSGYRKIFLYYLFLGSFSVRGMDGRRVFL  
MNSGFKLTLFMNLNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFSDKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDKQYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRHNVQVTLTCEILVHYLFVYKLLPVLHLCIVLVWKLLTQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLYWLSVSVMFYLMRDCHYEVLQLLLVLVYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYCLLYLLFCTLHFMILLVQAILLQVQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIWLILCKLLLLLNDTYYLSMLFDLYLINYVRLCLVLFLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKHLYYVNVLYYTLVILLLYLLVIIYIYI  
NLNYFIKLTKYIKIIYIFYLRYYFSILGFQFIYIILCITLHLALANLLFPLVWNNDLIIHWFFESKK  
EIRNIFLLLILFLKNIFALPFSCIKMNDIKNKYLNYSVILSYIATIIRSCINTCTCLISCSCYSC  
KKNYGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLCEIRFSRFSKYSSINLINKFSYINSNYDNRKFKFNCL  
YISKSYIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIIKLFIDTQFNIYIYIYLFIYMIKDIVNHRCESTKKHMGTHLPLLGESELVSGFMTEAAVVF  
VFFF LAEYGSIVL MCLTSILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDFLNNSIIE  
GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTEEGNRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN442

ITILKNIKSYIKIIHLYSINLKIGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLFLLLHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFLSFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTKIIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIIYPIINFIFLIIFFYIMLTHLQMKTCKYCCYSSGYRKIFLYYLFLGSFSVRGMDGRRVFL  
MNSGFKLTLFMNLNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFSDKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDKQYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRHNVQVTLTCEILVHYLFVYKLLPVLHLCIVLVWKLLTQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLYWLSVSVMFYLMRDCHYEVLQLLLVLVYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYCLLYLLFCTLHFMILLVQAILLQVQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIWLILCKLLLLLNDTYYLSMLFDLYLINYVRLCLVLFLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKHLYYVNVLYYTLVILLLYLLVIIYIYI  
NLNYFIKLTKYIKIIYIFYLRYYFSILGFQFIYIILCITLHLALANLLFPLVWNNDLIIHWFFESKK  
EIRNIFLLLILFLKNIFALPFSCIKMNDIKNKYLNYSVILSYIATIIRSCINTCTCLISCSCYSC  
KKNYGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLCEIRFSRFSKYSSINLINKFSYINSNYDNRKFKFNCL  
YISKSYIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIIKLFIDTQFNIYIYIYLFIYMIKDIVNHRCESTKKHMGTHLPLLGESELVSGFMTEAAVVF

VFFFLAEYGSIVLMCILTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDFLNNNSIIE  
GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEEGNRSRTILVNNTYTAKTIYHTRECNYTLFLYSTLLAYYLYMIIILLNL  
LGYINKKFVNFFFHHFLIQNTNF

>YN455

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLLGSLLNRWYARLLKVISFYLLQYLV  
LEGFIIILKKCSFIHLTINTKKLKIILMVKLIELTIKYMLNLIQMLCLVLWQLFLLLHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSSLSRKIYFRVWFPPFFRAKNTIRYKI  
LYFCFSLEFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVKLRQKTKPTKGLMGSYKKMITYIYIYIIFTTRIIYIYIILLYIKIIIIRYNYSILLY  
KNIIYPIINFIFIYIIMLTHLQMKTQYCCYSSGYRKIFLYYLFLGSFSVRGYMDGRRVFILE  
MNSGFKLTLMNLYNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEYIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDFKHLFFYLLLLYCEINNNYIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVMNFLDQKYYFLQKAYAFHFFDKQLLLFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTLSMRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLTSIEMLTGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLYYWLVSVMFYLMRCHYEVLQLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYCLLYLLFCTLHFMIILVQAILLVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIILWLILCKLLLLYLNDDTYYLSMLFDLYLINYVRCLVLFLLCYY  
LLQIVDLEVYNLDHVLVKLSEFLLISFCNVLNTKIHLYYVNVYYTLVILLLYLLVTIIVLIYI  
NLNYFIKLTKYIKIIYIFYLRYYFSILGFQFIYIILCITLHLALANLLFPLVWNNDLLIHWFESKK  
EIRNIFLLLLLFLKNIHFALPFSCIKMNDIKNLYNSYVILSYIATIIRSCINTCTCLISCSCLCYSC  
KKNYGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSYIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRGPNLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFYMIKDIVNHRCESTKKKHMGTFLPGESELVSGFMTEHAAVF  
VFFFЛАЕYGSIVLМСILTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDFLNNSIIЕ  
GLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNYTYTKIYHTRECNYTLFLYSTLLAYYLYMIIILLNL  
LGYINKKFVNFFFHHFLIQNTNF

>YN460

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLLGSLLNRWYARLLKVISFYLLQYLV  
LEGFIIILKKCSFIHLTINTKKLKIILMVKLIELTIKYMLNLIQMLCLVLWQLFLLLHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSSLSRKIYFRVWFPPFFRAKNTIRYKI  
LYFCFSLEFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVKLRQKTKPTKGLMGSYKKMITYIYSSYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIIYPIINFIFIYIMLTHLQMKTQYCCYSSGYRKIFLYLFLGSFSVRGYMDGRRVFILE  
MNSGFKLTLMNLYNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEYIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDFKHLFFYLLLLCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVMNFLDQKYYFLQKAYAFHFFDKQLLLIGCCLVLITKFFQFLYKFKEYKVIH  
YNILTLSMRHNQVTLTCIEILVHYLFVYKLLPVHLICIIVLVWKLITQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRCHYEVLQLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYCLLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIILWLILCKLLLLYLNDDTYYLSMLFDLYLINYVRCLVLFLLCY  
LLQIVDLEVYNLDHVLVKLSEFLLISFCNVLNTKIHLYYVNVLYYTLVILLLYLLVTIIVLIYI

NLNYFIKLTGYIKIIYIFYLRYYFSILGFQFIIYIILCITLHLALANLLPJVWNNDLIHWFFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNSYVILSYIATIIRSCINTCTCLISCSLCYSC  
KKNGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNHRCESTKKKHMGTLPPLLGESELVSGFMTEHAAVVF  
VFFF LAEYGSIVL MCI L TSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDFLNNSIIE  
GLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFFHHFLIQNTNF

>YN462

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHTINTKKLKIILLMVKLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLSFSYFNFYSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGVKL RQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIYPIINFIFLIIFFYIMLTHLQM KRTKYCCSSGYRKIFLYYLFLLGFSVRG YM DGR RVFIL  
MNSGFKLTLFMNLNYNINVGYDRIMYSLRVKRDTP TYWFRVEYIYLRVKNIYI QYIINIVI  
YWYGLNQVYILSF D KHLFFYLLLYCEINNNYIILHSTY LGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKR VNNFLDQKYYFLQKAYAFHFDKQLLIFGCLL TITKFFQFLYKFKEYKVIH  
YNI LTLSMRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLLTQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVL FELLVLLYYWLSVSVMFYLM DRCHYEV LQ L L L VLYLEGKI  
LLNSFEVVFL LIMPLTD FLHYI LYCL YLLFCTLHFMILLVQAIL VFQVITIELHLLHIF YL KILLF  
LYLFYVLLYSLCLMFGIVIIILWLILCKL L L L L N D T Y Y L S M L F D L Y L I N Y V L R C L V L F L C Y Y  
LLQIVDLEVYNLDHVLVKLSEFLLISFCNVLNTLKI HLYYVNVLYYTLVILLYYLLVTIIVLIYLI  
NLNYFIKLTGYIKIIYIFYLRYYFSILGFQFIIYIILCITLHLALANLLPJVWNNDLIHWFFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNSYVILSYIATIIRSCINTCTCLISCSLCYSC  
KKNGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNHRCESTKKKHMGTLPPLLGESELVSGFMTEHAAVVF  
VFFF LAEYGSIVL MCI L TSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDFLNNSIIE  
GLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFFHHFLIQNTNF

>YN463

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHTINTKKLKIILLMVKLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLSFSYFNFYSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGVKL RQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIYPIINFIFLIIFFYIMLTHLQM KRTKYCCSSGYRKIFLYYLFLLGFSVRG YM DGR RVFIL  
MNSGFKLTLFMNLNYNINVGYDRIMYSLRVKRDTP TYWFRVEYIYLRVKNIYI QYIINIVI  
YWYGLNQVYILSF D KHLFFYLLLYCEINNNYIILHSTY LGILSYLAINDSNQILFSLVWNNDL

LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLVLITKFFQFLYKFKEYKVIH  
YNILTLMSMRHNQVTLVTCEILVHYLFVKLLPVLHLCIIVLVWKLTLTQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDIELLVLFELLVLLYYWLSVSVMFYLMDRCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYLCLLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIILWLICLCKLLLLNNDTYYLSMLFDLYLINYVLRCVLFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVNLNTLKIHLYYVNVLVILLLYLLVTIIVLIYLI  
NLNYFIKLTGYIKIHHYIFYLRYYSILGFQFIYIILCITLHLALANLLFPLVWNNDLLIHWFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNSYVILSYIATIIRSCINTCTCLISCSCYCSC  
KKNGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNHRCESTKKKHMGTLPPLLGESELVSGFMTEHAAVVF  
VFFF LAEYGSIVL MCLTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDFLNNSIIE  
GLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN468

ITILKNIKSYIKIHHYISINLGIFSILYLVLLFSLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIIILKKCSFIHLTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLLLLHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPRSVCWYLSFSYFNFSYFNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVCLRQKTKPTKGLMGSYKKMITYIYSSYYIFTITRIIYIYIILLYKIIIRYNSILLY  
KNIIYPIINFFLIIFFYIMLTHLQM KRTKYCCYSSGYRKIFLYYLFLGSFSVRGYMDGRRVFL  
MNSGFKLTLFMNLNNYINVGYDRIMYSLRVKRDPTYNTWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDKHLFFYLLLLCEINNNYIILHSTY LGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLVLITKFFQFLYKFKEYKVIH  
YNILTLMSMRHNQVTLVTCEILVHYLFVKLLPVLHLCIIVLVWKLTLTQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDIELLVLFELLVLLYYWLSVSVMFYLMDRCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYLCLLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIILWLICLCKLLLLNNDTYYLSMLFDLYLINYVLRCVLFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVNLNTLKIHLYYVNVLVILLLYLLVTIIVLIYLI  
NLNYFIKLTGYIKIHHYIFYLRYYSILGFQFIYIILCITLHLALANLLFPLVWNNDLLIHWFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNSYVILSYIATIIRSCINTCTCLISCSCYCSC  
KKNGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNHRCESTKKKHMGTLPPLLGESELVSGFMTEHAAVVF  
VFFF LAEYGSIVL MCLTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDFLNNSIIE  
GLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN476

ITILKNIKSYIKIHHYISINLGIFSILYLVLLFSLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIIILKKCSFIHLTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLLLLHFYYSLIK

NDVVVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPFRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTIIYTIERLPYR  
VCWNRGFVKLRQTKPKTGMGSYKKMITYIYSYYIFTITRIIYIYIILYKIIIIRYNYSILLY  
KNIIYPIINFIFFLIIFFYIMLTHLQMKTCKYCCYSSGYRKIFLYLFLLGSFSVRGYMDGRRVFIL  
MNSGFKLTLFMNLNYNINVGYDRIMYSLRVKRDTPTYNTWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDFKHLFFYLLLLYCEINNNYIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVRNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLTTQSIEMLTGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRDCHYEVLQLLLVLVYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYLCLYLLFCTLHFMIILVQAILVFQVITIELHLLHIFYLKILLF  
LYLFYVLLYSLCLMFGIVIILWLILCKLLLLNNDTYYLSMLFDLYLINVLRCLVFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHLYYVNVLVYTLVILLYYLLVIIIVLIYLI  
NLNYFIKLTKYIKIYYIFYLRYYSILGFQFIIYIILCITLHLALANLLPVLVWNNDLIIHWFFESKK  
EIRNIFLLLFLKNIHFALPFSCIKMNDIKNKYLNYSVILSYIATIIRSCINTCTCLISCSCYSC  
KKNGYAKKIRSCCRLWTIASCCLKTFIKRICSSYTIYCSFLFRSCNNFNCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKEIRFSRFSKYSSINLINIKFSYINSYDNRKFKFNCL  
YISKSYIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILFIDTQFNIYIYLFIYMIKDIVNHRCESTKKHMGTHLPLLGESELVSGFMTEHAAVVF  
VFFF LAEYGSIVL MCLTSILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDLNNSIIE  
GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINF AIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNYTYT KTIYHTRECNYTLFLYSTLLGYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN477

ITILKNIKSYIKIHLYSINLKGIFSILYLVLLFSLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILMVKLLIETIKYMLNLIQMLCLVLWQLFLLLHFYYSLIK  
NDVVVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPFRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTIIYTIERLPYR  
VCWNRGFVKLRQTKPKTGMGSYKKMITYIYSYYIFTITRIIYIYIILYKIIIIRYNYSILLY  
KNIIYPIINFIFFLIIFFYIMLTHLQMKTCKYCCYSSGYRKIFLYLFLLGSFSVRGYMDGRRVFIL  
MNSGFKLTLFMNLNYNINVGYDRIMYSLRVKRDTPTYNTWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDFKHLFFYLLLLYCEINNNYIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVRNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLTTQSIEMLTGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRDCHYEVLQLLLVLVYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYLCLYLLFCTLHFMIILVQAILVFQVITIELHLLHIFYLKILLF  
LYLFYVLLYSLCLMFGIVIILWLILCKLLLLNNDTYYLSMLFDLYLINVLRCLVFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHLYYVNVLVYTLVILLYYLLVIIIVLIYLI  
NLNYFIKLTKYIKIYYIFYLRYYSILGFQFIIYIILCITLHLALANLLPVLVWNNDLIIHWFFESKK  
EIRNIFLLLFLKNIHFALPFSCIKMNDIKNKYLNYSVILSYIATIIRSCINTCTCLISCSCYSC  
KKNGYAKKIRSCCRLWTIASCCLKTFIKRICSSYTIYCSFLFRSCNNFNCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKEIRFSRFSKYSSINLINIKFSYINSYDNRKFKFNCL  
YISKSYIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILFIDTQFNIYIYLFIYMIKDIVNHRCESTKKHMGTHLPLLGESELVSGFMTEHAAVVF  
VFFF LAEYGSIVL MCLTSILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDLNNSIIE

GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEEGNRSRTILVNNYTYTCTIYHTRECNYTLFLYSTLLGYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN480

ITILKNIKSYIKIIHLYSINLKIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSCLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWPFFRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTIIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILYIKIIIIRYNYSILLY  
KNIIYPIINFIFLIIFFYIMLTHLQMKRTKYCCYSSGYRKIFLYYLFLGSFSVRGYMDGRRVFL  
MNSGFKLTFMNLNNYINVGYDRIMYSLRVKRDTPTYNTWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDFKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLTTQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRDCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYCLLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIILWLILCKLLLLYNDTYYLSMLFDLYLINYVLRCLVFLLCYY  
LLQIVDLEVYNLDHVLVKLSEFLLISFCNVLNTLKIHLYYVNLYYTLVILLYYLLVTIVLIYLI  
NLNYFIKLTGYIKIIYIYFLRYYFSILGFQFIIYIILCITLHLALANLLFPLVWNNDLLIHWFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKLNYSYVILSYIATIIRSCINTCTCLISCSLCYSC  
KKNYGYAKKIRSCCRLWTIASCCLKTFIKRICSSYTIYCSFLFRSCNNFNCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSYIRYSISWLCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYFLYMIKDIVNHRCESTKKHMGTHLPLLGESELVSGFMTEHAAVVF  
VFFF LAEYGSIVL MCI LTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDFLNNIIIE  
GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEEGNRSRTILVNNYTYTCTIYHTRECNYTLFLYSTLLAYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN485

ITILKNIKSYIKIIHLYSINLKIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSCLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWPFFRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTIIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILYIKIIIIRYNYSILLY  
KNIIYPIINFIFLIIFFYIMLTHLQMKRTKYCCYSSGYRKIFLYYLFLGSFSVRGYMDGRRVFL  
MNSGFKLTFMNLNNYINVGYDRIMYSLRVKRDTPTYNTWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDFKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLTTQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRDCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYCLLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIILWLILCKLLLLYNDTYYLSMLFDLYLINYVLRCLVFLLCYY  
LLQIVDLEVYNLDHVLVKLSEFLLISFCNVLNTLKIHLYYVNLYYTLVILLYYLLVTIVLIYLI  
NLNYFIKLTGYIKIIYIYFLRYYFSILGFQFIIYIILCITLHLALANLLFPLVWNNDLLIHWFESKK

EIRNIFLLLLLFLKNIHFALPFSCIKMNDIKNKYLNYSYVILSYIATIIRSCINTCTCLISCSLCYSC  
KKNYGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSYIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIIYIYLFIYMIKDIVNHRCESTKKKHMGTLPGESELVSGFMTEHAAVVF  
VFFF LAEYGSIVL MCI LTSILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDFLNNSIIE  
GLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFC TVLLP INF AII L VPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN487

ITILKNIKSYIKIILHYSINLK GIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLFLLHFYY SCLIK  
NDVVWLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPFRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTIIYTIERLPYR  
VCWNRGFVKLQRKTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILYKIIIIRYNYSILLY  
KNIIYPIINFIFLIIFFYIMLTHLQM KRTKYCCYSSGYRKIFLYYLFLGSFSVRGYMDGRRV FIL  
MNSGFKLTLFMNLNNYINVGYDRIMYSLRVKRDTP TYWFRVEYIYLRVKNIYI QYIINIVI  
YWYGLNQVYILSF DKLHFFYLLLYCEINNNYNIILHSTY LGILS YLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLI FGCLLVTITKFFQFLYKFKEYKV IH  
YNILTSMRH NQVTLVTCEILVHYLFVYKLLPVLHLCIIVLWVKLLTQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVL FELLVLLYYWLSVSVMFYLM DRCHYEVLQLLL LVL VYLEGKI  
LLNSFEVVFLLIMPLTDFLHYIYCLLYLLFCTLHFMILLVQAI LLVQVITIELHLLHIFYLK ILL  
LYLFLYVLLYSLCLMFGIVIIILWLILCKL LLLYLN DTY YLSMLFDLYLINYVLRCLVFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHLYYVNVLYYTLVILLLYLLVII VLIYI  
NLNYFIKLT KYIKI IIYIYIYRYYFSILGFQFIIYIILCITLHLALANLLP LVWNNDL IHWFFESKK  
EIRNIFLLLLLFLKNIHFALPFSCIKMNDIKNKYLNYSYVILSYIATIIRSCINTCTCLISCSLCYSC  
KKNYGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFS YIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIIYIYLFIYMIKDIVNHRCESTKKKHMGTLPGESELVSGFMTEHAAVVF  
VFFF LAEYGSIVL MCI LTSILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDFLNNSIIE  
GLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFC TVLLP INF AII L VPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN540

ITILKNIKSYIKIILHYSINLK GIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLFLLHFYY SCLIK  
NDVVWLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPFRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTIIYTIERLPYR  
VCWNRGFVKLQRKTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILYKIIIIRYNYSILLY  
KNIIYPIINFIFLIIFFYIMLTHLQM KRTKYCCYSSGYRKIFLYYLFLGSFSVRGYMDGRRV FIL  
MNSGFKLTLFMNLNNYINVGYDRIMYSLRVKRDTP TYWFRVEYIYLRVKNIYI QYIINIVI  
YWYGLNQVYILSF DKLHFFYLLLYCEINNNYNIILHSTY LGILS YLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLI FGCLLVTITKFFQFLYKFKEYKV IH

YNILTLSMRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLITQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYLCLYLLFCTLHFMILLVQAILLVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIILWLILCKLLLLLNDTYYLSMLFDLYLINYVLRCLVLFLLCYY  
LLQIVDLEVNLVDHLVKLSEFLNISFCNVLNTLKHLYVNVLYYTIVLVLVLLYLLVTHVLIYI  
NLNYFIKLTGYIKIIYIFYLRYYFSILGFQFIYIILCITLHLALANLLFPLVWNNDLIIHWFFESKK  
EIRNIFLLLILFLKNIHFALPSCIKMNDIKNKLYNNSYVILSYIATIIRSCINTCTCLISCSCYSC  
KKNYGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNHRCESTKKHMGTLPGESELVSGFMTEHAAVVF  
VFFF LAEYGSIVL MCLTSILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDLNNSIIE  
GLYGFNLGLKSSLMIFTFIARASFPRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNN

>YN490

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFSLFTFRFRNIIIFPFRSVCWYLWSFSYFNFYSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIIYPIINFIFLIIFFYIMLTHLQMKT KYCCSSGYRKIFLYYLFLLLGSFSVRGYMDGRRVFIL  
MNSGFKLTLMNLYNINVGYDRIMYSLRVKRDTPTYWFRVEYIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDKHLFFYLLLYCEINNNYIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTLSMRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLITQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYLCLYLLFCTLHFMILLVQAILLVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIILWLILCKLLLLLNDTYYLSMLFDLYLINYVLRCLVLFLLCYY  
LLQIVDLEVNLVDHLVKLSEFLNISFCNVLNTLKHLYVNVLYYTIVLVLVLLYLLVTHVLIYI  
NLNYFIKLTGYIKIIYIFYLRYYFSILGFQFIYIILCITLHLALANLLFPLVWNNDLIIHWFFESKK  
EIRNIFLLLILFLKNIHFALPSCIKMNDIKNKLYNNSYVILSYIATIIRSCINTCTCLISCSCYSC  
KKNYGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNHRCESTKKHMGTLPGESELVSGFMTEHAAVVF  
VFFF LAEYGSIVL MCLTSILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDLNNSIIE  
GLYGFNLGLKSSLMIFTFIARASFPRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN541

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI

LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTKIIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIRYNYSILLY  
KNIIYPIINFIFLIIFFYIMLTHLQMKTCKYCCSSGYRKIFLYYLFLGSFSVRGMDGRRVFL  
MNSGFKLTLFMNLNYNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFSDKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRHNVQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLTTQSIEMLTGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRDCHYEVLQFLLEGKI  
LLNSFEVVFLIMPLTDFHYIYCLLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIIWLILCKLLLLYLDTYYLMLFDLYLINYVRLCLVFLLCYY  
LLQIVDLEVNLHDHVKLSEFLLISFCNVLNTLKHLYYVNVLYYTLVILLYYLLVIIYIYI  
NLNYFIKLTGYIKIIYIFYLRYYFSILGFQFIYIILCITLHLALANLLFPLVWNNDLIIHWFFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKLYNNSYVILSYIATIIRSCINTCTCLISCSCYSC  
KKNGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSYIRYSISWLCEIRFSRFSKYSSINLINKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYIYLFIYMIKDIVNHRCESTKKHMGTLPPLLGESELVSGFMTEAAVVF  
VFFF LAEYGSIVL MCLTSILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDLNNSIIE  
GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEEGNRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN544

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTKIIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIRYNYSILLY  
KNIIYPIINFIFLIIFFYIMLTHLQMKTCKYCCSSGYRKIFLYYLFLGSFSVRGMDGRRVFL  
MNSGFKLTLFMNLNYNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFSDKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRHNVQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLTTQSIEMLTGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRDCHYEVLQFLLEGKI  
LLNSFEVVFLIMPLTDFHYIYCLLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIIWLILCKLLLLYLDTYYLMLFDLYLINYVRLCLVFLLCYY  
LLQIVDLEVNLHDHVKLSEFLLISFCNVLNTLKHLYYVNVLYYTLVILLYYLLVIIYIYI  
NLNYFIKLTGYIKIIYIFYLRYYFSILGFQFIYIILCITLHLALANLLFPLVWNNDLIIHWFFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKLYNNSYVILSYIATIIRSCINTCTCLISCSCYSC  
KKNGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSYIRYSISWLCEIRFSRFSKYSSINLINKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYIYLFIYMIKDIVNHRCESTKKHMGTLPPLLGESELVSGFMTEAAVVF  
VFFF LAEYGSIVL MCLTSILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDLNNSIIE  
GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF

LTHPPALLPQGYSTYEEGNSRTILVNNYTYTKIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN554

ITILKNIKSYIKIHHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILMVKLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFLFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIYPIINFIFLIIFFYIMLTHLQMKRTKYCCSSGYRKIFLYYLFLGSFSVRGYMDGRRVFL  
MNSGFKLTLFMNLNYNINVGYDRIMYSLRVKRDTPTYNTYWFRVEIYLRVKNIYIQLYIINIVI  
YWYGLNQVYILSFSDKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRHNVQTVLTCIELVHYLFVYKLLPVLHLCIVLVWKLTSIEMLTGDFVYIIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLYWLSVSVMFYLMRDCHYEVLQLLLIVLFLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYCLYLLFCTLHFMILLVQAILVQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIILWLILCKLLLLYNDTYYLSMLFDLYLINYVRLCLVFLLCYY  
LLQIVDLEVYNLDHVLVKLSEFLLISFCNVLNTLKIHYVNVLYYTLVILLLYLLVTIIVLIYI  
NLNYFIKLTGYIKIYIYIFYLRYYFSILGFQFIYIILCITLHLALANLLFPLVWNNDLHWWFDSKK  
EIRNIFLLLILFLKNIHFAFPSCIKMNDIKNKYLNYSYVILSYIATIIRSCINTCTCLISCSLCYSC  
KKNYGYAKKIRSCCRLWTIASCCLKTFIKRICSSYTIYCSFLFRSCNNFNCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSYIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFYMIKDIVNHRCESTKKHMGTHLPLGESELVSGFMTEHAAVF  
VFFF LAEYGSIVL MCI L TSILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDLNNSIIE  
GLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEEGNSRTILVNNYTYTKIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN557

ITILKNIKSYIKIHHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILMVKLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFLFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIYPIINFIFLIIFFYIMLTHLQMKRTKYCCSSGYRKIFLYYLFLGSFSVRGYMDGRRVFL  
MNSGFKLTLFMNLNYNINVGYDRIMYSLRVKRDTPTYNTYWFRVEIYLRVKNIYIQLYIINIVI  
YWYGLNQVYILSFSDKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRHNVQTVLTCIELVHYLFVYKLLPVLHLCIVLVWKLTSIEMLTGDFVYIIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLYWLSVSVMFYLMRDCHYEVLQLLLIVLFLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYCLYLLFCTLHFMILLVQAILVQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIILWLILCKLLLLYNDTYYLSMLFDLYLINYVRLCLVFLLCYY  
LLQIVDLEVYNLDHVLVKLSEFLLISFCNVLNTLKIHYVNVLYYTLVILLLYLLVTIIVLIYI  
NLNYFIKLTGYIKIYIYIFYLRYYFSILGFQFIYIILCITLHLALANLLFPLVWNNDLHWWFESKK  
EIRNIFLLLILFLKNIHFAFPSCIKMNDIKNKYLNYSYVILSYIATIIRSCINTCTCLISCSLCYSC

KKNYGYAKKIRSCCRLWTIASICCLTFIKRICSSYTIYCSFLFRSCNNFNCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSYIRYSISWLKCEIRFSRFSKYSSINLINKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFFSRGPANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIIKLFIDTQFNIYIYLFIYMIKDIVNHRCESTKKKHMGTLPPLGESELVSGFMTEHAAVVF  
VFFFRAEYGSIVLMCILTSILFIGGYLLFEISYVFTVVNVYIFFELFFIDVTFVEVQSLYTDFLNNSIIE  
GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN561

ITILKNIKSYIKIHLYSINLGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHTINTKKLKIILMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFSLEFTFRFRNIINFPFRSVCWYLSFSYFNFYSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVKLRQTKPKTGMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIIYPIINFIFLIIFFYIMLTHLQMKTCKYCCYSSGYRKIFLYYLFLGSFSVRGYMDGRRVFL  
MNSGFKLTLFMNLNYNYINVGYDRIMYSLRVKRDPTYNTYWFRVEIYLRLVKNIYIQYIINIVI  
YWYGLNQVYILSFDFKHLFFYLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRHNVQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLQSIEMLTGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMDRCHYEVLQLLLVLVYLEGKI  
LLNSFEVVFLIMPLTDLHYIYLCLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFYVLLYSLCLMFGIVIILWLILCKLLLLLNDTYYLSMLFDLYLINYVRLCLVFLCY  
LLQIVDLEVYNLDHVLVKLSEFLLISFCNVLNTLKIHLYYVNLYYTIVLVLVLLYYLLVTIIVLIYI  
NLNYFIKLTKYIKIYYIFYLRYYFSILGFQFIIYIILCITLHLALANLLFPLVWNNDLIIHWFFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNYSVILSYIATIIRSCINTCTCLISCSLCYSC  
KKNYGYAKKIRSCCRLWTIASICCLTFIKRICSSYTIYCSFLFRSCNNFNCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSYIRYSISWLKCEIRFSRFSKYSSINLINKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFFSRGPANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIIKLFIDTQFNIYIYLFIYMIKDIVNHRCESTKKKHMGTLPPLGESELVSGFMTEHAAVVF  
VFFFRAEYGSIVLMCILTSILFIGGYLLFEISYVFTVVNVYIFFELFFIDVTFVEVQSLYTDFLNNSIIE  
GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNY

>YN567

ITILKNIKSYIKIHLYSINLGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHTINTKKLKIILMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFSLEFTFRFRNIINFPFRSVCWYLSFSYFNFYSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVKLRQTKPKTGMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIIYPIINFIFLIIFFYIMLTHLQMKTCKYCCYSSGYRKIFLYYLFLGSFSVRGYMDGRRVFL  
MNSGFKLTLFMNLNYNYINVGYDRIMYSLRVKRDPTYNTYWFRVEIYLRLVKNIYIQYIINIVI  
YWYGLNQVYILSFDFKHLFFYLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRHNVQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLQSIEMLTGDFVIYIVIQL

LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYLCLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFPLYVLLYSLCLMFGIVIIILWLICLKLILLNNDTYYLSMLFDLYLINYVLRCVLFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHLYYVNVLYYTLVILLLYLLVTIIVLIYLI  
NLNYFIKLTGYIKIIIYIFYLRYYSILGFQFIIYIILCITLHLALANLLFPLVWNNDLLIHWFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNYSVILSYIATIIRSCINTCTCLISCSCYCSC  
KKNYGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNRCESTKKKHMGTLLGESELVSGFMTEHAAVVF  
VFFFLAEYGSIVLMCILTSILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDFLNNSIIE  
GLYGFNLGLKSSLMIFTFIARASFPRIRFDQMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTEEGNRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFFHHFLIQNTNF

>YN604

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIIILKKCSFIHLTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFSLEFTFRFRNIINFPRSVCWYLSFSYFNFYSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVQLRQKTKPTKGLMGSSYKKMITYIYSSYYIFTITRIIIYIYIILLYIKIIIIRYNSILLY  
KNIIYPIINFFLIIFFYIMLTHLQMKTCKYCCSSGYRKIFLYLFLGSFSVRGYMDGRRVFIL  
MNSGFKLTLFMNLNYNYINVGYDRIMYSLRVKRDPTYNTYWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDFKHLFFYLLLLYCEINNNYIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLLTQSIEMLITGDFVIYIVIQL  
YNILTSMRHNVQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLLTQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYLCLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFPLYVLLYSLCLMFGIVIIILWLICLKLILLNNDTYYLSMLFDLYLINYVLRCVLFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHLYYVNVLYYTLVILLLYLLVTIIVLIYLI  
NLNYFIKLTGYIKIIIYIFYLRYYSILGFQFIIYIILCITLHLALANLLFPLVWNNDLLIHWFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNYSVILSYIATIIRSCINTCTCLISCSCYCSC  
KKNYGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNRCESTKKKHMGTLLGESELVSGFMTEHAAVVF  
VFFFLAEYGSIVLMCILTSILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDFLNNSIIE  
GLYGFNLGLKSSLMIFTFIARASFPRIRFDQMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTEEGNRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFFHHFLIQNTNF

>YN608

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIIILKKCSFIHLTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFSLEFTFRFRNIINFPRSVCWYLSFSYFNFYSYNNYRIYIIRKRSNRQQTKIYTIERLPYR

VCWNRGFVKLRQTKKPTKGLMGSYKKMITYIYSYYIFTITRIIIYIYIILLYIKIIIIIRYNYSILLY  
KNIIYPIINFIFFLIIIFFYIMLTHLQMCKRTKYCCYSSGYRKIFLYYLFLGSFSVRGYMDGRRVFIL  
MNSGFKLTLFMNLNYNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDFKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVMNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLVLITKFFQFLYKFKEYKV  
YNILTSRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLTLQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRDCHYEVLQFLLLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIILYCLLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLK  
LYLFLYVLLYSLCLMFGIVIIIWLICLCKLLLLNDTYYLSMLFDLYLINYVLRCVLFLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHLYYVNVLYYTLVILLYYLLVHIVLIY  
NLNYFIKLTGYIKIIYIFYLRYYFSILGFQFIIYIILCITLHLANANLLFPLVWNNDLLIHWF  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNYSVILSYIATIIRSCINTCTCLISC  
KKNGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNCIIRLRCYTLWS  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDN  
RKFKNCL YISKSYIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFK  
NKRQLAGNLIP NKYIILFIDTQFNIYIYLFIYMIKDIVNHRCESTKKHMGTHLPLLGE  
SELVSGFMTEHAAVVF VFFF LAEYGSIVL MCI L TSILFIGGYLLFEISYVFTV  
VNYIFFELFFIDVTFVEVQSLYTDFLN NSIIE GLLYGFNLGLKSSLMIFTFIARAS  
FPRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF LTHPPALLP  
QGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN617

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLFLHHF  
YYSCLIK NDVWVLYWYNLYLAINEYDIYRVCICYSYFISHYICSSLSRKIYFRVWF  
PFFRAKNTIRYK LYFCFSLFTFRFRNIINFPRFSVCWYLWSFSYFN  
FYSYNNYRIYIIRKRSNRQQT  
KIIYTIERLPYR VCWNRGFVKLRQTKKPTKGLMGSYKKMITYIYSYYIFTITRIIIYIYIILLYIKIIIIIR  
YNILTSRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLTLQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRDCHYEVLQFL  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHLYYVNVLYYTLVILLYYLLVHIVLIY  
NLNYFIKLTGYIKIIYIFYLRYYFSILGFQFIIYIILCITLHLANANLLFPLVWNNDLLIHWF  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNYSVILSYIATIIRSCINTCTCLISC  
KKNGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNCIIRLRCYTLWS  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRF  
SKYSSINLINIKFSYINSNYDN  
RKFKNCL YISKSYIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFK  
NKRQLAGNLIP NKYIILFIDTQFNIYIYLFIYMIKDIVNHRCESTKKHMGTHLPLLGE  
SELVSGFMTEHAAVVF VFFF LAEYGSIVL MCI L TSILFIGGYLLFEISYVFTV  
VNYIFFELFFIDVTFVEVQSLYTDFLN NSIIE GLLYGFNLGLKSSLMIFTFIARAS  
FPRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF LTHPPALLP  
QGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL

LGYINKKFVNFFHHFLIQNTN

>YN626

ITILKNIKSYIKIİHLYSİNLKİFSİLYLVLLFSLLQVFİLLGSİLNWYARLİKVISFYLLQYL  
LEGFIİLKKCSFIİLTİNTKKLKİİLMVKLİETİKYMİNLİİQMLCLVLWQLFİLLHFİYYSCLIK  
NDVWVLYWYNLYLAİNEYDİİYRVCİCYSYFİSHFYİCSSLSRKİYFRVWFİPFFRAKİTİRYKİ  
LYFCFSİFTFRFRNIİNFİFRSVCWYLWSFSYFNFSYNNYRİYİIRKRSNRQQTKİİYTİERLPYR  
VCWNRGFVKLQRQTKPTKGLMGSYKKMİTYİYSYYİFTİTRİİYİİİLYKİİİRNYSİLLY  
KNİİYPIİNFİFFLİİFFYİMLTHLQMKTİCYCCYSSGYRKİFLYYLFLLGSFSVRGİMDGRRVİ  
MNSGFKLTLFMNLNYNİYINVGYDRİMİSLRVKRDTPTYNTWFRVEYİLRVKNİYİQYİİNİVİ  
YWYGLNQVYİLSFDKHLFFYİLLLYCEİNNYİİLHSTİLGİLSYLAİNDSNQİLFSLVWNNDL  
LİHWFFDSKKRVNNFİLDQKYYFLQKAYAFHFFDKQİLLİFGCLLVTİKFFQFLYKFKEYKVİH  
YNIİLTSMRHNQVTİLTCEİLVHYLFVYKLLPVLHLCİİLVWKLİTQİEMLİTGDİFVİYİVİQL  
LLSFSCIYTEEVYİTDİELVLFELLVLLYYWLSVSVMFİLMDRCHYEVLQİLLİLLVLYLEGKİ  
LLNSFEVVFLİMLPTDFHYİLYCLYLLFCTLHFİİLLVQİLLVFQVİTELHLLHİFYLKİLLF  
LYLFİLYVLLYSLCLMFGİVİİLWLİLKİLLİLYNDTYYLSMLFDLYLİNİVRLCLVFLİCYY  
LLQİVDLEVYİLDHVLVKLSEFİLLİSFCNVLNTLKİHLYYVNVLYYİLVİLLYYLLVİİVİYİ  
NLNYFIKLTKİYİİYİFYLRYYFSİLGQFİYİİLCİTLHİALANLLFPLVWNNDLİHWFİFESKK  
EİRNFİLLLİFLKNIHFALPFSCİKMNDİKNKYLNYSYVİLSYİATİİRSCİNTCTCLİSCSLCYSC  
KKNYGYAKKIRSCCİLLWTİASİCCLTFİKRCİSSYTİYCSFLFRSCNNFNFCİİRLRCYTLWSW  
FRD KRHEF RYİLHVSCVİFSYİRYSİSLKCEİRFSRFSKÝSSİNLNİKFSYİNSNYDNRKFKFNCL  
YİSKSYİYTTFİSCVYİNFHİYİSDKSSFSRGPAİLVWSGYMSQİARKPFYFKNKRQLAGNLİP  
NKYİİKLFIİTQFİYİYİFLİYMKDİVNHRCESTKKHMGTHLPLLGESELVSGFMTEHAAVVF  
VFFFLAEYGSİVLMCİLTSİLFIGGYLLFEİSYVFTVNVYİFFELFFİDVTFVEVQSLYTDFLNNİİE  
GLLYGFNLGLKSSLMİFTFİARASFPRİFDQLMGFCİVLLPİFAİİLVPÇVLYSFNLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTİLVNNYTYTKİYHTRECNYTLFLYSTİLLAYYYLYMİİİLLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN634

ITILKNIKSYIKIİHLYSİNLKİFSİLYLVLLFSLLQVFİLLGSİLNWYARLİKVISFYLLQYL  
LEGFIİLKKCSFIİLTİNTKKLKİİLMVKLİETİKYMİNLİİQMLCLVLWQLFİLLHFİYYSCLIK  
NDVWVLYWYNLYLAİNEYDİİYRVCİCYSYFİSHFYİCSSLSRKİYFRVWFİPFFRAKİTİRYKİ  
LYFCFSİFTFRFRNIİNFİFRSVCWYLWSFSYFNFSYNNYRİYİIRKRSNRQQTKİİYTİERLPYR  
VCWNRGFVKLQRQTKPTKGLMGSYKKMİTYİYSYYİFTİTRİİYİİİLYKİİİRNYSİLLY  
KNİİYPIİNFİFFLİİFFYİMLTHLQMKTİCYCCYSSGYRKİFLYYLFLLGSFSVRGİMDGRRVİ  
MNSGFKLTLFMNLNYNİYINVGYDRİMİSLRVKRDTPTYNTWFRVEYİLRVKNİYİQYİİNİVİ  
YWYGLNQVYİLSFDKHLFFYİLLLYCEİNNYİİLHSTİLGİLSYLAİNDSNQİLFSLVWNNDL  
LİHWFFDSKKRVNNFİLDQKYYFLQKAYAFHFFDKQİLLİFGCLLVTİKFFQFLYKFKEYKVİH  
YNIİLTSMRHNQVTİLTCEİLVHYLFVYKLLPVLHLCİİLVWKLİTQİEMLİTGDİFVİYİVİQL  
LLSFSCIYTEEVYİTDİELVLFELLVLLYYWLSVSVMFİLMDRCHYEVLQİLLİLLVLYLEGKİ  
LLNSFEVVFLİMLPTDFHYİLYCLYLLFCTLHFİİLLVQİLLVFQVİTELHLLHİFYLKİLLF  
LYLFİLYVLLYSLCLMFGİVİİLWLİLKİLLİLYNDTYYLSMLFDLYLİNİVRLCLVFLİCYY  
LLQİVDLEVYİLDHVLVKLSEFİLLİSFCNVLNTLKİHLYYVNVLYYİLVİLLYYLLVİİVİYİ  
NLNYFIKLTKİYİİYİFYLRYYFSİLGQFİYİİLCİTLHİALANLLFPLVWNNDLİHWFİFESKK  
EİRNFİLLLİFLKNIHFALPFSCİKMNDİKNKYLNYSYVİLSYİATİİRSCİNTCTCLİSCSLCYSC  
KKNYGYAKKIRSCCİLLWTİASİCCLTFİKRCİSSYTİYCSFLFRSCNNFNFCİİRLRCYTLWSW

FRDKRHEFRYILHVSCVIFSYIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFFSRGPANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNHRCESTKKKHMGTHLPLLGESELVSGFMTEHAAVVF  
VFFFRAEYGSIVLMCILTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDFLNNSIIE  
GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN635

ITILKNIKSYIKIILHYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILMVKLLIETIKYMLNLIQMLCLVLWQLFLLHFYYSCLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPFRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTIIYTIERLPYR  
VCWNRGFVKLRQTKPKTGMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIIYPIINFIFFLIIFFYIMLTHLQMKTCKYCCYSSGYRKIFLYYLFLGSFSVRGYMDGRRVFL  
MNSGFKLTLFMNLNNYINVGYDRIMYSLRVKRDTPTYNTWFRVEYIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDFKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLVLITKFFQFLYKFKEYKVIH  
YNILTLSMRHNQVLTCEILVHYLFVYKLLPVLHLCIVLVWKLTSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRDCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYCLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIILWLILCKLLLLYLDNTYLYSMLFDLYLINYVLRCVLFLCY  
LLQIVDLEVYNLDHLVKLSEFLLIIFCNVLNTLKIHLYYVNVLYYTLVILLLYLLVTIIVLIYI  
NLNYFIKLTKYIKIYIYIFYLRYYFSILGFQFIYIILCITLHLALANLLPVLVWNNDLIHWFFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNYSYVILSYIATIIRSCINTCTCLISCSLCYSC  
KKNYGYAKKIRSCCRLWTIASCCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSYIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFFSRGPANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNHRCESTKKKHMGTHLPLLGESELVSGFMTEHAAVVF  
VFFFRAEYGSIVLMCILTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDFLNNSIIE  
GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN640

ITILKNIKSYIKIILHYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILMVKLLIETIKYMLNLIQMLCLVLWQLFLLHFYYSCLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPFRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTIIYTIERLPYR  
VCWNRGFVKLRQTKPKTGMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIIYPIINFIFFLIIFFYIMLTHLQMKTCKYCCYSSGYRKIFLYYLFLGSFSVRGYMDGRRVFL  
MNSGFKLTLFMNLNNYINVGYDRIMYSLRVKRDTPTYNTWFRVEYIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDFKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLVLITKFFQFLYKFKEYKVIH  
YNILTLSMRHNQVLTCEILVHYLFVYKLLPVLHLCIVLVWKLTSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRDCHYEVLQLLLILLVLYLEGKI

LLNSFEVVFLIMPLTDFLHYIYLCLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIILWLILCKLLLLLYLNDTYYLSMLFDLYLINYVLRCLVLFLLCYY  
LLQIVDLEVNLVDHLVKLSEFLISFCNVLNTLKHLYYVNVLYYTIVLILLYYLLVTIIVLIYI  
NLNYFIKLTGYIKIIYIFYLRYYFSILGFQFIYIILCITLHLALANLLFPLVWNNDLLIHWFESKK  
EIRNIFLLLILFLKNIHFALPSCIKMNDIKNKLYNNSYVILSYIATIIRSCINTCTCLISCSLCYSC  
KKNYGYAKKIRSCCRLWTIASICCLTKFICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFFSRGPANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNHRCESTKKHMGTLPPLLGESELVSGFMTEHAAVVF  
VFFFIAEYGSIVLMCILTSILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDLNNSIIE  
GLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN643

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSCLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPRSVCWYLSFSYFNFYSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIIYPIINFFLIIFFYIMLTHLQMKTGYCCSSGYRKIFLYYLFLLGFSVRGYMDGRRVFIL  
MNSGFKLTLFMNLNNYINVGYDRIMYSLRVKRDTPTYWFRVEYIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDKHLFFYLLLLYCEINNNYIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIIH  
YNILTLSMRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLLTQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYLCLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIILWLILCKLLLLLYLNDTYYLSMLFDLYLINYVLRCLVLFLLCYY  
LLQIVDLEVNLVDHLVKLSEFLISFCNVLNTLKHLYYVNVLYYTIVLILLYYLLVTIIVLIYI  
NLNYFIKLTGYIKIIYIFYLRYYFSILGFQFIYIILCITLHLALANLLFPLVWNNDLLIHWFESKK  
EIRNIFLLLILFLKNIHFALPSCIKMNDIKNKLYNNSYVILSYIATIIRSCINTCTCLISCSLCYSC  
KKNYGYAKKIRSCCRLWTIASICCLTKFICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFFSRGPANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNHRCESTKKHMGTLPPLLGESELVSGFMTEHAAVVF  
VFFFIAEYGSIVLMCILTSILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDLNNSIIE  
GLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN651

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSCLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPRSVCWYLSFSYFNFYSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY

KNIIYPIINFIFFLIIFFYIMLTHLQMKRTKYCCSSGYRKIFLYYLFLGSFSVRGYMDGRRVFIL  
MNSGFKLTLFMNLNYNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVLTITKFFQFLYKFKEYKVIH  
YNILTLSMRHNQVT廖CEILVHYKLLPVLHLCIIVLVWKLITQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFHYIYLCLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIIWLILCKLLLLYLNDDTYYLSMLFDLYLINYVRLCLVLFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKHLYYVNVLYYTLVILLLYLLVTLVLIYI  
NLNYFIKLTGYIKIIYIFYLRYYFSILGFQFIYIILCITLHLALANLLFPLVWNNDLIIHWFFESKK  
EIRNIFLLLILFLKNIHFAFPSCIKMNDIKNKYLNYSYVILSYIATIIRSCINTCTCLISCSCYSC  
KKNGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNHRCESTKKHMGTHLPLLGESELVSGFMTEHAAVVF  
VFFF LAEYGSIVL MCI LTSILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDFLNNSIIE  
GLYGFNLGLKSSLMIFTFIARASFPRI RDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTEEGNRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN657

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEDIIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPMFRAKNTIRYKI  
LYFCFSLFTFRFRNIIIFPFR SVCWYLWSFSYFNFYSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVKLRQKTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIRYNYSILLY  
KNIIYPIINFIFFLIIFFYIMLTHLQMKRTKYCCSSGYRKIFLYYLFLGSFSVRGYMDGRRVFIL  
MNSGFKLTLFMNLNYNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVLTITKFFQFLYKFKEYKVIH  
YNILTLSMRHNQVT廖CEILVHYKLLPVLHLCIIVLVWKLITQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFHYIYLCLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIIWLILCKLLLLYLNDDTYYLSMLFDLYLINYVRLCLVLFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKHLYYVNVLYYTLVILLLYLLVTLVLIYI  
NLNYFIKLTGYIKIIYIFYLRYYFSILGFQFIYIILCITLHLALANLLFPLVWNNDLIIHWFFESKK  
EIRNIFLLLILFLKNIHFAFPSCIKMNDIKNKYLNYSYVILSYIATIIRSCINTCTCLISCSCYSC  
KKNGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNHRCESTKKHMGTHLPLLGESELVSGFMTEHAAVVF  
VFFF LAEYGSIVL MCI LTSILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDFLNNSIIE  
GLYGFNLGLKSSLMIFTFIARASFPRI RDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTEEGNRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNI

>YN661

ITILKNIKSYIKIHLYSINLKGIFSILYLVLLFSLLQVFLLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIIILKKCSFIHLTINTKKLKIILMVKLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFLSTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSKKMMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIYPIINFIFLIIFFYIMLTHLQMKTCKYCCSSGYRKIFLYYLFLGSFSVRGMDGRRVFL  
MNSGFKLTLFMNLNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFSDKHLFFYLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDKQYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRHNQVLTCEILVHYLFVYKLLPVLHLCIVLVWKLTTQSIEMLTGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLYWLSVSVMFYLMRDCHYEVLQLLLVLVLEGKI  
LLNSFEVVFLIMPLTDFLHYIYCLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIWLILCKLLLLYLNDDTYYLSMLFDLYLINYVRLCLVLFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHYVNVLYYTLVILLYYLLVTIVLIYLI  
NLNYFIKLTGYIKIYIYIFYLRYYFSILGFQFIYIILCITLHLALANLLFPLVWNNDLHWFESKK  
EIRNIFLLLILFLKNIHFAFPSCIKMNDIKNKLYNYSVILSYIATIIRSCINTCTCLISCSCYSC  
KKNGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSYIRYSISWLCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFYMIKDIVNHRCESTKKHMGTHLPLLGESELVSGFMTEHAAVVF  
VFFF LAEYGSIVL MCI LT SILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDLNNSIIE  
GLYGFNLGLKSSLMIFTFIARASFPRIRDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTEEGNRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN670

ITILKNIKSYIKIHLYSINLKGIFSILYLVLLFSLLQVFLLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIIILKKCSFIHLTINTKKLKIILMVKLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFLSTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFVKLRQTKPTKGLMGSKKMMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIYPIINFIFLIIFFYIMLTHLQMKTCKYCCSSGYRKIFLYYLFLGSFSVRGMDGRRVFL  
MNSGFKLTLFMNLNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFSDKHLFFYLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDKQYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRHNQVLTCEILVHYLFVYKLLPVLHLCIVLVWKLTTQSIEMLTGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLYWLSVSVMFYLMRDCHYEVLQLLLVLVLEGKI  
LLNSFEVVFLIMPLTDFLHYIYCLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIWLILCKLLLLYLNDDTYYLSMLFDLYLINYVRLCLVLFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHYVNVLYYTLVILLYYLLVTIVLIYLI  
NLNYFIKLTGYIKIYIYIFYLRYYFSILGFQFIYIILCITLHLALANLLFPLVWNNDLHWFESKK  
EIRNIFLLLILFLKNIHFAFPSCIKMNDIKNKLYNYSVILSYIATIIRSCINTCTCLISCSCYSC  
KKNGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSYIRYSISWLCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL

YISKSYLIYTTFISCVYNIFHRIYSDKSSFFSRGPANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIIKLFIDTQFNIIYIYLFIYMIKDIVNHRCESTKKKHMGTLLGESELVSGFMTEHAAVVF  
VFFFBLAEYGSIVLMCILTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDFLNNSIIE  
GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNI

>YN673

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLSFSYFNFYSYNNYRIYIIRKRSNRQQTKIIYTIERLPYR  
VCWNRGFVKLRQKTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIYPIINFIFLIIFFYIMLTHLQMKTCKYCCYSSGYRKIFLYYLFLGSFSVRGYMDGRRVFL  
MNSGFKLTLFMNLNYNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEIYLRVKNIYIYIINIVI  
YWYGLNQVYILSFSDKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRHNVQTLVTCEILVHYLFVYKLLPVLHLCIVLVWKLLTQSIEMLITGDFVYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLYWLSVSVMFYLMRDCHYEVLQLLLVLVYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYCLLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFYVLLYSLCLMFGIVIIWLJLCKLLLLYLNDDTYYLSMLFDLYLINYVLRCVLFLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHLYYVNVLYYTLVILLLYLLVTIIVLIYI  
NLNYFIKLTKYIKIIYIYFLRYYFSILGFQFIIYIILCITLHLLALANLLFPLVWNNDLIIHWFFESKK  
EIRNIFLLLFLKNIHFALPFSCIKMNDIKNKYLNYSVILSYIATIIRSCINTCTCLISCSCYCSC  
KKNYGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSYIRYSISWLKCEIRFSRFSKYSSINLINKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFFSRGPANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIIKLFIDTQFNIIYIYLFIYMIKDIVNHRCESTKKKHMGTLLGESELVSGFMTEHAAVVF  
VFFFBLAEYGSIVLMCILTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDFLNNSIIE  
GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN690

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLSFSYFNFYSYNNYRIYIIRKRSNRQQTKIIYTIERLPYR  
VCWNRGFVKLRQKTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIYPIINFIFLIIFFYIMLTHLQMKTCKYCCYSSGYRKIFLYYLFLGSFSVRGYMDGRRVFL  
MNSGFKLTLFMNLNYNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEIYLRVKNIYIYIINIVI  
YWYGLNQVYILSFSDKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRHNVQTLVTCEILVHYLFVYKLLPVLHLCIVLVWKLTTQSIEMLITGDFVYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLYWLSVSVMFYLMRDCHYEVLQLLLVLVYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYCLLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF

LYLFLYVLLYSLCLMFGIVIILWLILCKLLLLYNDTYYLSMLFDLYLINYVLRCVLFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHLYYVNVLVILLYYLLVTIIVLIYLI  
NLNYFIKLTGYIKIIYIFYLRYYSILGFQFIIYIILCITLHLALANLLPVLWNNDLLIHWFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNYSYVILSYIATIIRSCINTCTCLISCSCYSC  
KKNYGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINKFSYINSNYDNRKFKFNCL  
YISKSYIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNRCESTKKKHMGTLPPLLGESELVSGFMTEHAAVVF  
VFFFLAEYGSIVLMCILTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDLNNSIIE  
GLLYGPNLGLKSSLMIFTFIARASFPRIRFDQLMGCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFFHHFLIQNTNF

>YN694

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFSLEFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFBVKLQRKTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNSILLY  
KNIYPIINFIFFLIIFFYIMLTHLQMKT KTYCCSSGYRKIFLYYLFLLGFSVRG YMDGRVRFIL  
MNSGFKLTLFMNLNNYINVGYDRIMYSLRVKRDPTYNTWFRVEIYLRVKNIYIYQIINIVI  
YWYGLNQVYILSF DKKHLFFYLLLLYCEINNNYIILHSTY LGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKR VNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSMRH NQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKL LTQSIEMLITGDFVIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLM DRCHYEV LQFLLLVLYLEGKI  
LLNSFEVVFL LIMPLTD FLHYI LYCLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIILWLILCKLLLLYNDTYYLSMLFDLYLINYVLRCVLFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHLYYVNVLVILLYYLLVTIIVLIYLI  
NLNYFIKLTGYIKIIYIFYLRYYSILGFQFIIYIILCITLHLALANLLPVLWNNDLLIHWFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNYSYVILSYIATIIRSCINTCTCLISCSCYSC  
KKNYGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINKFSYINSNYDNRKFKFNCL  
YISKSYIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNRCESTKKKHMGTLPPLLGESELVSGFMTEHAAVVF  
VFFFLAEYGSIVLMCILTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDLNNSIIE  
GLLYGPNLGLKSSLMIFTFIARASFPRIRFDQLMGCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFFHHFLIQNTNY

>YN714

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPRAKNTIRYKI  
LYFCFSLEFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTKIYTIERLPYR  
VCWNRGFBVKLQRKTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILLYIKIIIIRYNSILLY  
KNIYPIINFIFFLIIFFYIMLTHLQMKT KTYCCSSGYRKIFLYYLFLLGFSVRG YMDGRVRFIL

MNSGFKLTLMNMLNNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVRNNFLDQKYFLQKAYAFHFFDKQLLIFGCLVLITKFFQFLYKFKEYKVIH  
YNILTSRMRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLTLTQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMDRCHYEVLQLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYLCLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIILWLICLCKLLLLNNDTYYLSMLFDLYLINYVLRCVLFLCYY  
LLQIVDLEVYNLDHVLKLFSEFLISFCNVNLTKIHLYYVNVLVYTLVILLYYLLVHIVLIYLI  
NLNYFIKLTGYIKIIYIFYLRYYSILGFQFIIYIILCITLHLALANLLFPLVWNNDLIIHWFFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNSYVILSYIATIIRSCINTCTCLISCSCYCSC  
KKNGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYIYTTFISCVYNIFHRIYSDKSSFSRGPNLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNHRCESTKKKHMGTLPPLLGESELVSGFMTEHAAVVF  
VFFFЛАЕYGSIVLМСILTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDFLNNSIIE  
GLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEEGNRSRTILVNNYTYTКTIYHTRECNYTLFLYSTLLGYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN716

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILMVKLLIETIKYMLNLIQMLCLVLWQLFLHHFYYSLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFISHFYICSSLSRKIYFRVWFPRAKNTIRYKI  
LYFCFSLEFTFRFRNIINFPRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTKIIYTIERLPYR  
VCWNRGFVCLRQKTKPTKGLMGSYKKMITYIYSSYYIFTITRIIYIYIILLYIKIIIIRYNYSILLY  
KNIIYPIINFIFLIIFFYIMLTHLQMKTCKYCCYSSGYRKIFLYYLFLGSFSVRGYMDGRRVFL  
MNSGFKLTLMNMLNNYINVGYDRIMYSLRVKRDTPTYNTYWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVRNNFLDQKYFLQKAYAFHFFDKQLLIFGCLVLITKFFQFLYKFKEYKVIH  
YNILTSRMRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLTLTQSIEMLITGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMDRCHYEVLQLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYLCLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIILWLICLCKLLLLNNDTYYLSMLFDLYLINYVLRCVLFLCYY  
LLQIVDLEVYNLDHVLKLFSEFLISFCNVNLTKIHLYYVNVLVYTLVILLYYLLVHIVLIYLI  
NLNYFIKLTGYIKIIYIFYLRYYSILGFQFIIYIILCITLHLALANLLFPLVWNNDLIIHWFFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNSYVILSYIATIIRSCINTCTCLISCSCYCSC  
KKNGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLKCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYIYTTFISCVYNIFHRIYSDKSSFSRGPNLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNHRCESTKKKHMGTLPPLLGESELVSGFMTEHAAVVF  
VFFFЛАЕYGSIVLМСILTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDFLNNSIIE  
GLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEEGNRSRTILVNNYTYTКTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN718

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLFLLLHFYYSLIK  
NDVVWLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWPFFRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTIIYTIERLPYR  
VCWNRGFVCLRQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILYKIIIIRYNYSILLY  
KNIIYPIINFIFFLIIFFYIMLTHLQMKTCKYCCYSSGYRKIFLYYLFLGSFSVRGMDGRRVFILE  
MNSGFKLTLMNLNYNINVGYDRIMYSLRVKRDPTYNTWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDFKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVMNFDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSRHNQVTLVTCEILVHYLFVKLLPVLHLCIVLVWKLTTQSIEMLTGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLYWLSVSVMFYLMDRCHYEVLQLLLVLVYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYCLYLLFCTLHFMILLVQAILLVFQVITIELHLLHIFYLKILLF  
LYLFYVLLYSLCLMFGIVIIWLILCKLLLLLNDTYYLSMLFDLYLINYVRCLVFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHLYYVNVLVYTLVILLYYLLVTIIVLIYI  
NLNYFIKLTKYIKIIYIFYLRYYSILGFQFIIYIILCITLHLALANLLFPLVWNNDLLIHWFESKK  
EIRNIFLLLILFLKNIHFAFPSCIKMNDIKNKYLNYSVILSYIATIIRSCINTCTCLISCSCYSC  
KKNGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSYIRYSISWLKCEIRFSRFSKYSSINLINKFSYINSYDNRKFKFNCL  
YISKSYIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILFIDTQFNIYIYLFIYMIKDIVNHRCESTKKHMGTHLPLLGESELVSGFMTEHAADV  
VFFF LAEYGSIVL MCI LTSILFIGGYLLFEISYVFTVNVYIFFELFFIDVTFVEVQSLYTDFLNN  
GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFC T VLLPINF AII L VPCVLYSFNLLPVNIPL  
LTHPPALLPQGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLA  
YYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF

>YN735

ITILKNIKSYIKIIHLYSINLKGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILLMVKLLIETIKYMLNLIQMLCLVLWQLFLLLHFYYSLIK  
NDVVWLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWPFFRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTIIYTIERLPYR  
VCWNRGFVCLRQTKPTKGLMGSYKKMITYIYSYYIFTITRIIYIYIILYKIIIIRYNYSILLY  
KNIIYPIINFIFFLIIFFYIMLTHLQMKTCKYCCYSSGYRKIFLYYLFLGSFSVRGMDGRRVFILE  
MNSGFKLTLMNLNYNINVGYDRIMYSLRVKRDPTYNTWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDFKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVMNFDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIH  
YNILTSRHNQVTLVTCEILVHYLFVKLLPVLHLCIVLVWKLTTQSIEMLTGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLYWLSVSVMFYLMDRCHYEVLQLLLVLVYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYCLYLLFCTLHFMILLVQAILLVFQVITIELHLLHIFYLKILLF  
LYLFYVLLYSLCLMFGIVIIWLILCKLLLLLNDTYYLSMLFDLYLINYVRCLVFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLISFCNVLNTLKIHLYYVNVLVYTLVILLYYLLVTIIVLIYI  
NLNYFIKLTKYIKIIYIFYLRYYSILGFQFIIYIILCITLHLALANLLFPLVWNNDLLIHWFESKK  
EIRNIFLLLILFLKNIHFAFPSCIKMNDIKNKYLNYSVILSYIATIIRSCINTCTCLISCSCYSC  
KKNGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNFCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSYIRYSISWLKCEIRFSRFSKYSSINLINKFSYINSYDNRKFKFNCL  
YISKSYIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP

NKYIILKFIDTQFNIYIYLFIYMIKDIVNRCESTKKKHMGTHLPLLGESELVSGFMTEHAAVVF  
VFFFLAEYGSIVLMCILTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDFLNNIIIE  
GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFFHHFLIQNTN

>YN745

ITILKNIKSYIKIILHYSINLKIGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILMVKLLIETIKYMLNLIQMLCLVLWQLFLLLHFYYSCLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPFRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTIIYTIERLPYR  
VCWNRGFVKLRQTKPKTGMGSYKKMITYIYSYYIFTITRIIYIYIILYKIIIIRYNYSILLY  
KNIIYPIINFIFLIIFFYIMLTHLQMKTCKYCCYSSGYRKIFLYYLFLGSFSVRGYMDGRRVFIL  
MNSGFKLTLFMNLNNYINVGYDRIMYSLRVKRDTPTYNTWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDFKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIIH  
YNILTSMRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLITQSIEMLTGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRDCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYLFLYCLLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIILWLILCKLLLLYLDTYYLSMLFDLYLINYVLRCLVFLLCYY  
LLQIVDLEVYNLDHLVKLSEFLLIIFCNVLNTLKHLYYVNVLYYTLVILLVLLYYLLTIIVLIYI  
NLNYFIKLTCKYIKIYIYIFYLRYYFSILGFQFIIYIILCITLHLALANLLFPLVWNNDLIIHWFFESKK  
EIRNIFLLLILFLKNIHFALPSCIKMNDIKNKLYNNSYVILSYIATIIRSCINTCTCLISCSLCYSC  
KKNYGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNFNCIIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSYIRYSISWLCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFSRG PANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIILKFIDTQFNIYIYLFIYMIKDIVNRCESTKKKHMGTHLPLLGESELVSGFMTEHAAVVF  
VFFFLAEYGSIVLMCILTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDFLNNIIIE  
GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFFHHFLIQNTNF

>Z-2

ITILKNIKSYIKIILHYSINLKIGIFSILYLVLLFSLLQVFLLGSLLNRWYARLLIKVISFYLLQYLV  
LEGFIILKKCSFIHLTINTKKLKIILMVKLLIETIKYMLNLIQMLCLVLWQLFLLLHFYYSCLIK  
NDVWVLYWYNLYLAINEYDIYRVCICYSYFIFSHFYICSSLSRKIYFRVWFPPFRAKNTIRYKI  
LYFCFSLFTFRFRNIINFPFRSVCWYLWSFSYFNFSYNNYRIYIIRKRSNRQQTIIYTIERLPYR  
VCWNRGFVKLRQTKPKTGMGSYKKMITYIYSYYIFTITRIIYIYIILYKIIIIRYNYSILLY  
KNIIYPIINFIFLIIFFYIMLTHLQMKTCKYCCYSSGYRKIFLYYLFLGSFSVRGYMDGRRVFIL  
MNSGFKLTLFMNLNNYINVGYDRIMYSLRVKRDTPTYNTWFRVEIYLRVKNIYIQYIINIVI  
YWYGLNQVYILSFDFKHLFFYLLLLYCEINNNIILHSTYLGILSYLAINDSNQILFSLVWNNDL  
LIHWFFDSKKRVNNFLDQKYYFLQKAYAFHFFDKQLLIFGCLLVTITKFFQFLYKFKEYKVIIH  
YNILTSMRHNQVTLVTCEILVHYLFVYKLLPVLHLCIIVLVWKLITQSIEMLTGDFVIYIVIQL  
LLSFSCIYTEEVYITDHIELLVLFELLVLLYYWLSVSVMFYLMRDCHYEVLQLLLILLVLYLEGKI  
LLNSFEVVFLIMPLTDFLHYIYLFLYCLLYLLFCTLHFMILLVQAILVFQVITIELHLLHIFYLKILLF  
LYLFLYVLLYSLCLMFGIVIIILWLILCKLLLLYLDTYYLSMLFDLYLINYVLRCLVFLLCYY

LLQIVDLEVYNLDHLVKLSEFLLLISFCNVLNTLKIHLYYVNVLYYTLVILLLYLLVTIIVLIYLI  
NLNYFIKLTKYIKIIYIFYLRYYFSILGFQFIYIILCITLHLALANLLFPLVNNDLLIHWFESKK  
EIRNIFLLLILFLKNIHFALPFSCIKMNDIKNKYLNSYVILSYIATIIRSCINTCTCLISCSLCYSC  
KKNYGYAKKIRSCCRLWTIASICCLKTFIKRICSSYTIYCSFLFRSCNNNFCHIRLRCYTLWSW  
FRDKRHEFRYILHVSCVIFSIRYSISWLCEIRFSRFSKYSSINLINIKFSYINSNYDNRKFKFNCL  
YISKSYLIYTTFISCVYNIFHRIYSDKSSFFSRGPANLVWSGYMSQIARKPFYFKNKRQLAGNLIP  
NKYIINKLFIDTQFNIYIYLFYMIKDIVNHRCESTKKKHMGTHLPLLGESELVSGFMTEHAAVVF  
VFFFIAEYGSIVLMCILTSILFIGGYLLFEISYVFTVVNYIFFELFFIDVTFVEVQSLYTDFLNNSIIE  
GLLYGFNLGLKSSLMIFTFIARASFPRIRFDQLMGFCTVLLPINFAIIILVPCVLYSFNLLPVNIPLF  
LTHPPALLPQGYSTYEENRSRTILVNNYTYTKTIYHTRECNYTLFLYSTLLAYYYLYMIIILLNL  
LGYINKKFVNFFHHFLIQNTNF