

>Tn\_12\_1\_F

TFLSLLWCVINATTTSHHCRVIPGSLSLPVLEKRGDIILGGLFSLHDTVPEPNMTFTSTPAPTO  
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SEGEMQSEGCDGNVPAVIGDGGSTQSLVVARFLGVFHVPOVSYFSSCACLSDKK  
FPAFLRTMPSDLFQVGALVQLVKHFGWTWVGWVAGDDAYGRGGAAIFANELQKLGACVAFY  
EMIPKIQSQAASAIISNIRSSGARAVLVFAVEQDAARLFEEADREGLTGIQWLASEAWSTA AVL  
STPKKYHHILOGSMGFAIRRAHIPGLQDFLLRLHPSSPDADEDPFLVPFWEVFOCSLGTRS  
KDRHTRSEGKPPCSGTENLOSVKNIYCDVSQLRISYNYKAVYAIHAIAKAMRSCVRGNGPF  
SQQACPDLDNIQPWQLHHYIKQVNYINRFGDEIKFDVNGDPAAMYDLVNWQLTPSGDMEFV  
TVGKFDKIGADGRKNLHIEEEKIVWNGNKSQVPLSVCSSICPPGSRKAIRPHFPICCHDCVVC  
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YHRTTPIVKANNSDLSFLLLFSLTLCFLCSLTFISQPSRWSCILRHTAFGITFVLCISCILGKTIV  
LMAFRSTHSSKVLKWFPGPVRQKAITFSTLVQVICTVWLVLAPPTPQRYMPREGAIIILLCDE  
GSTLAFSLVLGYIGLLASLCFILAFARKLPDNFNEARLIAFSMLIFCAVWVAFVPAYISSPGKY  
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>Tn\_9\_1\_F

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DDEKTAGNNSCRLSSVHAIIGESSESSSTIVLSRLAGPFKIPVISHSATCECLSDRKAHPSFFRTI  
ASDRYQSRALAQLVKLFGWTWVGAVNSDSYGNNGMAIFLVCVGYTEKFHRAEPEKLLKVV  
EVIR  
STARVIVGFLAHVEMNDLLQQLSLHNVTGLQFIGVEAWITANSLVTPTSFNVLGGPLGFAVEK  
ANIDGLDDFLIRDFWETKSECKEMKEDDATGTTTCGENHDLTEFKGYADDVAELRYSSNIYK  
AIYAVAHSLHSFLKCSSESNVCNKTMNVTPQQVGITHWDSLKAVNFTTKTGEQVWFDGTGAT  
VARYEVNWQRSSDGSIQFKPVGFYDASLPPGLRFLLRVEDIMWPGGKTEVPVSLCSESCR  
PGTRKVPOTGKPLCCHDCISCAEGEISNSTDANDCEKCPPELWPNQNRDACVPKTVEFLYF  
TEFMGIVLVFFTLGCVFFTLVTALFLIHKDTPLVRANSELSFLLLFSLTLCFLCSLTFIGRPSE  
WSCMLRHTAFGITFVLCISCVLGMVVLMAFRATLPGSHVMKWFGPAQQRLSVLTFTLVQV  
LICILWLTNDPPFPLRNTKHYKGIILECALGSAIGFWAVLGYIGVLALLCFILAFARQLPDNF  
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KHMMGKT

>Tn\_10\_1\_F

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SDFYQSRALAKLVKHFGWTWVGTVKSNDYGNNGLATFIMAAKQEGVCVEYSEGFSWTDPS  
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AILMGSLGFTIRKTKITGLQKFLQVNPSSQDPQNNLLKEFWETTFSCSFQSDMHQGTQCSG  
TEKLNDIQNPFDTVSELRISNNVYKAVYAVAHAMHAMFKCDQSGEAVNQSCTSNEDEFELKO  
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LPCPLELWSNEHHSQCVPKMIEFLSFEETMGALFAAVSLFGAALTSLVFCIFFRFRHTPLVKAS  
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GKTFYCSVPLQRTSVFSCIILQVLICVLWLTFAAPPFPYKNTTHAKEHIILECHLGSPVFWVW  
MGYIGLLAVICFILAF LARKLPDNFNEAKFITFSMLIFCAWITFIPAYVSSPGKFTVAVEIFAILAS  
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>Tn\_7\_1\_PF

TLLAVIEMF

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VGSEGWITYRFIASPVNAYAVKGA VGF SALNAHLPGLOEFLTESRPSTTPGNDGLVELWETVF  
KCTLNLGVQSSLA ACTGKESLRNASTRFTDVSDGSLNNVYKATYAIHALHMIFTCKDGEG  
LFENNTCADRHNVPQWQVLHLYLKQVNFTTKIGDHVFFDEMGPVPRYALVNWQMDDAGYV  
MFKTIGDYDASRPEGROFQMKDGVKALWAGGNLEVPKSVCSKNCLPGTRRAFVRGKPICC  
FDCITCADGEFSNSTNAVKCDKCLPEYKPNEERNKCHLKAIEFLTFRELMGTLLATFSVFGAC  
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LCISCVLGKTMVVLMAFRATLPGSHVMKWFGPAQQRSLVLTTLGQVLICILWLTIDPPFPFK  
NTKHYYKEKIILECAMGSAVGYWAVLGYIGLLAVLCFILAF LARKLPDNFNEAKFITFSMLIFCAV  
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>Tn\_8\_1\_F

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PDKIEQIIDIIKASTSRVIVAF LSHMDIDVLIHEM SHHNLTYQWVGSEGWIFDHHTAATDLHHI  
LDGAIGLSIPKADVAGMKKFILDV KQLNSSSQELREFWETLFNCKFKDLAPPS ENQRECSG  
HEDLTGVKNSFTDMSLMPIFYNVYKGVYAVAHALHDILSCNNTCNKTAQLDPFTILORIKKIHF  
KTKEGDEVYFNENGDPPAKYEIINWOPTQNGIVDFVTVGLYDASLPAKKQLKLNKTLVWAQ  
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RRDRCIKKKEEFLSYEEMMGALLAASSILGTCVTAVVMFIFFKFRQTPIVRANNSALSFLLLFS  
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GPAQQRVSVLGFTLIQVFICILWLTISPPFPFKNIKDFKDRIILECALGSAVGFVVVLYIGLLAM  
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>Tn\_8\_2\_F

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EERTFNLEKCSKPAKVQAILGETSSSPCMAIATVIGPFYVPLISHFATCACLSDKNKYPSFLR  
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PPDKIEQIIDIKAAASRVIVAF LPNMDIEVLIHEM SHHNLTYQWVGSEGWIFEKHTAAKDLYHI  
LDGAIGLSIPKADVAGMKK FILDVKQLNSSSQELFREFWETLFNCKFKDLAPPS ENQRECSG  
HEDLTGVINGFTDMSLMPIFYNVYKGVYAVAHALHDILSCNNTCNKTAQLDPFTILQRIKKIHF  
KTKEGDEVYFNENGDPPAKYEIINWOPTONGIVDFVTVGLYDASLPAKKQLKLNKTLVWAO  
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RRDRCIKKKEEFLSYEEMMGALLAASSILGTCVTAVVMFIFFKFRQTPIVRANNSALSFLLLFS  
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GPAQQRVSVLGFTLIQVFICILWLTISPPFPFKNIKDFKDRIILECALGSAVGFVVVLYIGLLAM  
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>Tn\_6\_1\_F

VCRLRDFAQMPPELAQDGFVIGGIFSFRTGQDYVSDTFQHIPEAPKCKNFNYREFKFAQTVIF  
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SRPTIAFAQVVGRFHIPVISHFATCACLSNRKEYPTFFRTIPSDYYQSTALAKLVKHFGWTWIG  
AIAVDNEYGQGGIATFIQAAQEYGVCTEYSEFSSEGRPDTLQRIVNVV KRATSKVIVAFMSH  
REIGLLAQELHKQINITGLOWVGS DAWITDHSLTDSEGH SILVGS LGFTVSKAKILGLEEHLRO  
LHPAQFPVSQFMVDFWEDRFDCSLNATGNKQRRPCSGFESLQNDTSLFTDETEL RFTNNVY  
KSVYA

AHALDNLMKCEKGKGP

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VLLAFRATLPGSNVMKWF GPAQQR LSVLAFTFVQVLTCTLWLTISPPYPFQNM EYYNDRIILE  
CALGSAVGFVAVLGYIGVLAMFCFILAF LARNLPDNFN EAKFITFSMLIFCAVWITFIPAYVSSP

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>Tn\_6\_2\_F

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GLGDFLLSLKPSDEPOSDLIKAMWEIFFKCSFSLSNTSAACTGTEDLRMVSNDYTDVRHFRA  
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FDENGDSVAQYDLVNWQMKEDGSVNIVTIGQYDTS  
GEELKLT DSTKIVWGGNHKEVPRSVCREPCPPGTRKAINKLPVCCFDCFECPQGTISNQTD  
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KANSELSFLLLLSLKLCFLCSLTFIGRPSEWSCMLRHTAFGITFVLCISCVLGKTVVVLMAFR  
ATLPGSKVMKWFGPAOQRLSVLIFTLIQVVICIFWLTTNPPFPLRNMSYYKEKIILECALGSAV  
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>Tn\_2\_1\_F

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NFFRVIPNDDYQVKAIAQ  
LVHFNWTWVGLLLCDREYGOFAAEGLLREL RGTKVC GAYQKIIPLVYDRQRIQEILQVMRSS  
SAKVVVVFSAEVEMIPLMRDYIKQ NITGIQWIASEAWVTASVFTGSKYYPYLG GTIGLGIRKGH  
IPRLSDYLLTVNPQTYPNDLLFEELWEALYGC RPSISSSSSVPLCTGOEPLLEQHS AFMNTSS  
PRVAYNVYKAVYIAHSLHNLVCQPKPGPFKNDTCVQNNNVQPWQLOYYLQEVRFKIAGE  
EVDFDQKGDSIPYYDIISWQMGVDGKIKFVNVGLFDGSKPPGKELV IQEDRIVWAGHOREAS  
LSICSASCLPGTRKAIRKEVPVCCFDCIPC DTGKISNETDSVDCMFCPEDFWSNP NKTACIPK  
KVEYLAYDSLGI ALMVTAVVGACTTIAIFAVFFYHRNTPIVRVNNAELSF FILLALVLCFLCSLVI  
GEPTSWSCMLRHTAFSITFSLCFSCILGKTLVVLAAFTATRPGYNIMKWLGP KQORAIIF SCTL  
VQVIICIAWLIEAPPAPFRNTEYEHSKVILECSVGS SVAFWCVLGYIGLOACL SFILAFLARKLP  
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PERNTKQNLMAKE

>Tn\_14\_1\_Y

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VKLG YRIVD GCDHIPTS LQALLSLVKESMAGEQVMKTIPACLT DSPVA AVIGLASSSPTRAAA  
HILGSFNIP LVS YFATCTCLNDKHEYP SFLRTVPSDLFQIGGLVQMVTFMGWFWVGTIGTTDD  
YSLYG IQAF SHQLRQQSGC VEFQLIIPKSPTAAEIKELADKLOSSTARV VVVFAREGQLLDFFL  
ELIYRNVTGIQWIA SEAWVTASLLTTPRFHALLGGTLGFSFPGVEIPGLKEFLINVRPSPEPGM  
EFVNMFWEDIFGCVLKFTGEDLRGDNVNALKESMKLNDLGRSLDTKPICTGSEDLRYTHSS  
YIDVSQVRISYSVYKAVY AIAHALHSLLKCESPVSDMDLTCKKHEPFTSKQLLQHLKSVNFTN  
QFKEKVYFDEKGE PVPLYDVINWQKDSRSNIRFVKVGSYDGSAPLKQRLOIDPNAIVWTGG  
QSKVPVSQCSAPCPPGNRQARRPGOQCCFDCVPCADGQISNOTGSTECQSCPEYYWP  
DKDKVKCLPGIEEFLSFSEAMGIVLVILSLLGVILAF TLTIIFHHFRSTAIVKANNSEISFLLLLSLK  
LCFLCSLLFIGOPSLWKCR LRQA AFGISFVLCLSCLLVKTIVVLF AFR  
ANLKARCLAPK LFGPSRQRTLILLTTAPQVCLCTAWLLAAPSFPFKNPTYQALTGKIVVECKEP  
WPPGFYLV LG

I

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>Tn\_4\_2\_PY

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VHAAFQLLNGLDPVFD TGDNC S QSGMVMMAIVGESGSTHSISISRVIGSFDIPLVSHFSTCACL  
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>Tn\_4\_1\_F

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LG YQIHDS CAAVPIAVH VAFQLLNGLDPVFD TGDNC S QSGMVMMAVVGESGSTPSISISRIIGS  
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EDSFNCR LDKAAAAGERVCDGSE DITTLQSPYTD TSE  
RITNMVYKAVY AIAHAIHNAVCQGSNSTNOCDKFTRINPKQVLT ELKRVNPFHNGETVSFDAN  
GDPVASYELVNWKKRDSGSIDVVPVGYDASQPEGOELRIYRDITWVDGRTQVPOQSVCSNS  
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SFSEVLGMILAVFSVGGACLA VIIAAVFFHHRACPIVRANNSELSFLLLFSLTLCFLCSLTFIGAP  
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QVLICIVWLVSPPYPVKNLSTYKDRILECALGSALGFWAVLGYIGLLAAVCLVLAVLARKLPD  
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>Tn\_16\_1\_Y

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GTRVSRKQPVCCFDCLTCSEGKFSNKTNSMECTSCPEDFWSCSQRDHCVPKKTEFLSY  
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TCQLRHAAFGISFVLCVSCILVKTMMVVLAVFSASKPGGVAILKWFGAVQQRGTVLGLTLVQAAI  
CIVWLLSSPPKPHKNTQYHTDKIIFECVIGSTVGFVLLSYISLLAILSFLLAFLARNLPDNFNEA  
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IMAR

>Tn\_4\_3\_P

VWLVSPPYPVKNLSTYKDRILECALGSALGFWAVLGYIGLLAAVCLVLAVLARKLPDNFNEA  
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NKK

>Tn\_16\_2\_PY

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DYG

HAARFQSDLAESGGGCLAYLEVLWPGRRLARV

RIVDVMKKSTARVVIVFAHESHMITLMEEVMROKVTGLOWIASEAWSAAFVLHTPRLVPYLAG  
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TGRELLKD

>Tn\_7\_CaSR\_F

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FCNCTDHIPATIAVVGAAGSAVSTAVANLLSLFYIPQISYASSSRLLSNRNQYKSFMRITPTDEY  
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>Tn\_4\_4\_YP

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DIPLVSHFATCACLSKQMYPTFFRTIPSDQFOADALAKLVKHFGWTWIGAVCSDSDYGNGG  
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>Tn\_16\_3\_Y

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>Tn\_16\_4\_PY

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