

Supplementary Figure S1

Protein sequence of D-type cyclins in mammals and plants. Light and dark grey boxes identify individual exons. The cyclin box is shown in red bold to illustrate that in most cases (other than plant CYCD3) it is found at the end of exon 1 and beginning of exon 2.

Human CYCD

>HsCYCD1 (NM_053056)

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MEHQLLCCEVETIRRAYPDANLLNDRVLRAMLKAEETCAPSVSYFKCVQKEVLPMSRKIVATWMLEVCEEQK  
CEEEVFPLAMNYLDRFLSLEPVKKSRLQLLGATCMFVASKMKETIPLTAEKLCIYTDNSIRPEELLQMELLL  
VNKLKWNLAAMTPHDFIEHFLSKMPEAEENKQIIRKHAQTFVALCATDVKFI SNPPSMVAAGSVVAAVQGLN  
LRSPNNFLSYRLTRFLSRVIKCDPDCLRACQEQIEALLESSLRQAQQNMDPKAAEEEEEEEEVDLACTPT  
DVRDVI*
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>HsCYCD2 (NM_001759)

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MELLCHEVDPVRRAVRDRNLLRDDRVLQNLLETIEERYLPQCSYFKCVQKDIQPYMRRMVATWMLEVCEEQK  
EEEVFPLAMNYLDRFLAGVPTPKSHLQLLGAVCMFLASKLKETSPLTAEKLCIYTDNSIKPQELLEWELVVL  
GKLLKWNLAAVTPHDFIEHILRKLPOQREKLSLIRKHAQTFIALCATDFKFKAMYPPSMIATGSVGAAICGLQQ  
DEEVSSLTCDALTELLAKITNTDVEDCLKACQEQIEAVLLNSLQYRQDQRDQDGSKSEDELQASTPTDVRDID  
L*
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>HsCYCD3 (NM_001760)

```
MELLCCEGTRHAPRAGPDRLLGDQRVLQSLRLEERYVPRASYFQCVQREIKPHMRKMLAYWMLEVCEEQR  
CEEEVFPLAMNYLDRYLSVCPTRKAQLQLLGAVCMFLASKLRETTPLTIEKLCIYTDHAVSPRQLRDWEVLV  
LGKLLKWDLAAVIAHDFLAFILHRLSLPRDRQALVKKHAQTFALCATDYTFAMYPPSMIATGSI GAAVQGLG  
ACSMGDELTELLAGITGTEVDCLRACQEQIEAALRESLREASQTSSSPAPKAPRGSSSQGPSQTSTPTDVT  
AIHL*
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Moss CYCD

>Phypa;CYCD (AJ488282)

```
MSPSVDCLASLYCAEDVSGTAWNESEMCGAADRVFESQPAVFMDFPVEDDEAIAITLLMKEAQFMPEADYLER  
YQSRKLSLEARLAAIEWILKVHSFYNYSPLTVALAVNYMDRFLSRYFPEGKEWMLQLLSVACISLAAKMEE  
SDVPILLDFQVEQEEHIFEAHTIQRMELLVLSLEWRMSGVTPFSYVDYFFHKLGVSDLLLRLALLSRVSEII  
LKSIRVTTSLQYLPSVVAASIICALEEVTTIRTGDLRLTFNELLVNVESVKDCYIDMRQSEIGPYCVRMGL  
KRKILHASEPQSPVGVLEAADVSSPSGTVLGFSSRESSPDVTDSPSTNSQRKRKRLCLHNE SCLHVESASL  
*
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Arabidopsis CYCD

>Arath;CYCD1;1 (AT1G70210)

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MRSYRFSDYLHMSVSFSNDMDLFCGEDSGVFSGESTVDFSSSEVDSWPGDSIACFIEDERHFVPGHDYLSRF  
QTRSLDASAREDSVAWILKVQAYYNFQPLTAYLAVNYMDRFLYARRLPETSGWPMQLLAVACL SLAAKMEEI  
LVPSLFDQVAGVKYLFEAKTIKRMELLVLSVLDWRLRSVTPFDLISFFAYKIDPSGTF LGFFISHATEIIL  
SNIKEASFLEYWPSSIAAAAILCVANELPSLSSVNPHE SPETWCDGLSKEKIVRCYRLMKAMAIENNRLNT  
PKVIAKLRVSVASSTLTRPSDESSFS SSPCKRRKLSGYSWVGDETSTSN*
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>Arath;CYCD2;1 (AT2G22490)

```
MAENLACGETSESWIIDNDDDDINYGGGFTNEIDYNHQLFAKDDNFGGNGSIPMMGSSSSSLSEDRIKEMLV  
REIEFCPGTDYVKRLLSGDLDSLVRNQALDWILKVCAHYHFGHLCICLSMNYLDRFLTSYELPKDKDWAQQL  
LAVSCLSLASKMEETDVPHIVDLQVEDPKFVFEAKTIKRMELLVVTTLNWRLQALTPFSFIDYFVDKISGHV
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SENLIYRSSRFILNTTKAIEFLDFRPSEIAAAAAVSVSISGETECIDEKALSSLIYVKQERVKRCNLNLMRS
LTGEENVRGTSLSQEQRVAVRAVPASVGVLEATCLSYRSEERTVESCTNSSQSSPDNNNNNNNSNKRRR
Q*

>Arath;CYCD3;1 (AT4G34160)

MAIRKEEESREEQSNSFLLDALYCEEEKWDDGEEVEENSSLSSSSSPFVVLQQDLFWEDEDLVTLSKEEE
QGLSCLDDVYLSTDRKEAVGWILRVNAHYGFSTLAAVLAITYLDFKFCISYSLQRDKPWMLQLVSVACLALAA
KVEETQVPLLLDFQVEETKYVFEAKTIQRMELLILSTLEWKMHLPITPISFVDHIIRRLGLKNNAHWDFLNKC
HRLLLSVISDSRFVGYLPSVVAATMMRIIEQVDPFDPLSYQTNLLGVLNLTKEKVKTCYDLILQLPVDRIG
LQIQIQSSKKRKSHDSSSSLNPSVIDANPFNSDESSNDSWSASSCNPPTSSSSPQQQPPLKKMRGAENE
KKKPILHLPWAIVATP*

>Arath;CYCD3;2 (AT5G67260)

MALEKEEESQNGAFVLDGLYCEEETGFVEDDLDGDLDFLEKSDSVVKFQFLPLLDLDFLWDDDEILSL
ISKENETNPCFGEQILDGFLVSCRKEALDWVLRVKSHYGFTSLTAVNYFDRFMTSIKLTQDKPWMSQLV
AVASLSLAAKVEEIQVPLLLDLQVEEARLYFEAKTIQRMELLILSTLQWRMHPVTPISFFDHIIRRFKSKWH
QQLDGFCRKCERLLISVIADTRFMRYFPSVLATAIMILVFEELKPCDEVEYQSQITTLKVNQEKVNECYELL
LEHNPSKKRMMNLVDQDPSGVLDGDDSSNSWNVSTTASVSSSSSPEPLLKRRRVQEQQMRLPSINRMFL
DVLSSPR*

>Arath;CYCD3;3 (AT3G50070)

MALEEEEEESQNAFVLDGLFCEEESEFHEQVLDCESEVEKFPFLNLGLSDHMLWDDDELSTLISKQEPCL
YDEILDDEFVLVCREKALDWIFKVKSHYGFNSLTALLAVNYFDRFITSRKFQTDKPWMSQLTALACLALAAK
VEEIRVPFLLDQVEEARLYFEAKTIQRMELLVLDLWDMHPVTPISFFDHIIRRYFKSHHQLEFLSRCE
SLLLSIIPDSRFLSFSVSVLATAIMVSVIRDLKMCDEAVYQSQMLTLLKVDSEKVNKCYELVLDHSPSKRM
MNMWQQPASPIGVFDASFSSDSSNESWVVSASASVSSSPSEPLLKRRRVQEQQMRLSSINRMFFDVLSSSP
R*

>Arath;CYCD4;1 (AT5G65420)

MAEENLELSLLCTESNVDDGEMIVDETPIEISIPQMGFSQSESEEIIMEMVEKEKQHLPSDDYIKRLRSGDL
DLNVGRRDALNWIKWACEVHQFGPLCFCLAMNYLDRFLSVHDLPSGKGWILQLLAVACLALAAKIEETEVEPM
LIDLQVGDQPQVFEAKSVQRMELLVNLKLRWLRRAITPCSYIRYFLRKMSKCDQEPSNTLISRLQVIASST
KGIDFLEFRPSEVAAVALSVSGELQRVHFDNSSFPLFSLQKERVKKIGEMIESDGSDLCSQTPNGVLEV
SACCFKTHDSSSYTHLS*

>Arath;CYCD4;2 (AT5G10440)

MAEFMEPNLVSNFDDKESNSVDTRSIFQMGFPLESEEIVREMIKERQHSPRDDYLRKLRNGDLDFNVRIQA
LGWIKWACEELQFGPLCICLAMNYLDRFLSVHDLPSGKAWTVQLLAVACLALAAKIEETNPPELMQLQVGAP
MFVFEAKSVQRMELLVNLVLRWLRRAVTPCSYVRYFLSKINGYDQEPHSRLVTRSLQVIASSTTKGIDFLEFR
ASEIAAVALSVSGEHFDKFSFSSSFSSLEKERVKKIGEMIERDGSSSSSQTPNNTVLQFKSRRYSLSLSTA
SVSSSLTSL*

>Arath;CYCD5;1 (AT4G37630)

MGEPKDSLALFLCHESESSLNEDDDETIERSDKQEPHFTTTIDDEDYVADLVLKENLRFETLPSKTTSSSDR
LIAIDWILTRTRRFQFQHTAYIAISYFDLFLHKRFIQLQKDETWAMRLLSVACLALAAKMEERIVPGLSQY
PQDHDFVFKPDVIRKTELLILSTLDWKMNLITPFHYFNYFLAKISQDNHVSVDLVLRRSSDLSLALTKEIS
FTEYRQFVVAAVTTLASSSTSSDIRLTREEIANKFGSISWWTSNENENVYLCYQRTLEIEERKHMTPPPEI
AVSREPPASGSGAKRRLSFDDSDQSSPPAKRMRL*

>Arath;CYCD6;1 (AT4G03270)

MEFHLEHPLSHSSLHNNFNDDTDYETLPHSLFLVEFQHMPSSHYFHSLSKSSAFLLSNRNQAISSITQYSRKF
DDPSLTYLAVNYLDRFLSSEDMPQSKPWILKILSLSCVLSAKMRKPDMSVSDLPVEGEFFDAQMIERMENV
ILGALKWRMRSVTPFSFLAFFISLFLKEDPPLLKHSLSKQTSDDLTFSLQHDISFLEFKPSVIAGAALLFA
SFELCPLQFPCFSNRINQCTYVKNDELMECYKAIQERDIIIVGENEGSTETAVNVLDQQFSSCESDKSITITA
SSSPKRRKTSTRY*

>Arath;CYCD7;1 (AT5G02110)

MDNLLCEESWPASPLTPEPLPNFRHRSHDNDVVKMYPEIDAATMEEAIAAMDLEKELCFNNHGDKFVEFFVSK
KLTDYRFHAFQWLIQTRSRLNLSYETVFSANCFDRFVYMTCCDEWTNWMVELVAVTSLSIASKFNEVTTPL

LEELEMEGLTHMFHVNTVAQMELIILKALEWRVNAVTSYTFSSQTLVSKIGMVGDMIMNRITNHLLDVICDL
KMLQYPPSVVATAAIWILMEDKVCRESIMNLFQNHKEKIVKCVDMKNRDIHQSSRRRYSEGRSILSLLO
RGDVMNMNGDYNVEDLSKIFQIFRYEKKRDRGNHQDNIRPAKRMTIEMSNI*

Rice CYCD

>Orysa;CYCD1;1 (Os09g21450)

MPADDDDDASYLLCAEDAGAAVFDVAVDIDSTCTTEDDECCSVGGEEELYSAAISIAELIGGEEAAYSPPSDYPDRL
RSRSIDPAARAESVSWILKVOEYNGFLPLTAYLAVNYMDRFLSLRHLPEGQGWAMQLLAVACLSLAAKMEET
LVPSLLDLQVECSRYVFEPRITICRMEFLILTALNWRLRSVTPFTFIDFFACKVDPKGGKHTRYLIARATEMVL
ATIHGKNTDVFAG*

>Orysa;CYCD1;2 (Os06g12980)

MMYKHVGGDDARGSSAGVCCVDDVDDVDDALLCGEDAGELEREGEPAQGSSPSSSLSCAAAAAADDDED
EDEHGVHGEVQVTPGGEEHCYDYDYDVPVGAELVMPACSPRTAVHRPGWSESVSWILKVRVSHGFQPA
TAYLAVSYMDRFMSSRSLPDHGWSQLLCAVCLSLAAKMEESSAPPLLDLQIEGTRFIFEPRTIORMELIVL
VELDWRLRSVTPFAFVDFACKVGGSSRILALRACQIILSAIHELEFLNHCASSMAAAVLFVAVNESPA
AMSHRSSVSESAASWCIGLTEERISSCYQLLQALNATARKRKRHPMILAACSSVTSSSSRSKRRLDGHF
GED*

>Orysa;CYCD1;3 (Os08g32540)

MGAPATAASGGDDDDRDVVFYLLCTEEDAASAGSFFQQLQGPAPAVSSSPSTTTATAPAAAGSCDDGGEE
EEEEVWTVDVVAELIGGEEAERSHSPRADYPGRLRSRGRPADLAARADSVAVILKVRELYGMLPVTAYLAVSYM
DRFLSLHRLPGNGWAMQLLAVTCLSLAAKMEETLVPSILDLOMEDARYIFEHRTIFRMELLVLDALDWRLRS
ITPFTFMYLFAADKVPNGKHIRELIHQATQVTLATIHDFLHDHCPSSIAAAAVLCASSEIMQLVSIHGT
LSVWRIIGLDEEAIIRCYRLMQQLISSNNVGRESTEITMATTTTTATTAVSSEEVSSSPSKRRKM*

>Orysa;CYCD2;1 (Os07g42860)

MGVLCFGASNILLCAEDSSSVLGLGGGGGGEVAELGCGGGGGFDFFGGGGAVFPIDSDFEVALLVEKE
MDHQQRGYLEKLELGGLECSWRKDAIDWICKVHSYINFGPLSLYLAVNYLDRFLSSFNLPHDESWMQQLS
VSCLSLATKMEETVVPLPMDLQVDAEYVFEARHIKRMELIVMKTCLKWRLQAVTFFSFIGYFLDKFNEGKPP
SYTLASWCSDLTVGTLKDSRFLSFRPSEIAAAVVLAVLAENQFLVFNLSALGESEIPVNKEMVMRCYELMVEK
ALVKKIRNSNASSVPHSPITVLDAACFSEFRSDDTTLGSSQSNNSNNKDYNQDSAPASKRRRLNTPPI*

>Orysa;CYCD2;2 (Os06g11410)

MAPSFDAASILLCAEDNTAILDLGEESEEISWVGVVDASLGDLSMDFPLQSDDCIEALLGREEQQHIPMEG
YLQRLLLQPDGLDLVAVRSDAIDWIKVHELYKFGPLTAVLSVNYLDRFLSVFDLPQEEACMTQLLAVASLS
LAAKMEETVVPHPLDLQVCDAKYVFETRITIKRMELAVLNALKWRMQUAVTACSFIDYLLHKFNDDDDTPSTSAL
RSVDLILSTCKVAEFLVFRPSEIAASVALVALEEHEHETSMFERVATCYKNLKKERVLRCEYMIQDKIIMRNI
MRQSAGSVFSIPKSPIGVLDAACISQQSEDTFVGS PATNYESSASSKRRRRCR*

>Orysa;CYCD2;3 (Os03g27420)

MGFLCRRRSSAAPAESFSLICEEDSESVFGSDDDGVEETATMAPELGKMMSLGFSSASHHLGDGGGGGEEELVG
SFMEKEVEQM VETARGEYLTKL SNGGIELSCRIAAIDWICKVQAYY SFGPLCAYLAVNYLDRFLSSVEFSVT
NDMPWQQQLLIVACL SLAAKMEETAAPGTLDLQVCNPEYVFAETIHRMEEIVLTTLKWRMQUAVTPFTYIGH
FLDKINEGNRITSELI SRCTE IILSTMKATVFLRFRPSEIATAVALSVVADGGRVLDFFGGVLESSKLPVVDK
NVGRCHQAMQEMALVMQNSTASPSDSL CYDMTNPVLDCHILRRREC VSLQSGPRDELEMGWAPFAITVSEKE
ESERRCDDGWRRGEEAAQYCEQADEQRRSTDGRAGVRLLEEQAGGE*

>Orysa;CYCD3;1 (Os09g02360)

MAFATLFDLSYCP EEHLDFHDTAADDLHLDLHLHQPPPPPLLDLDDLPALFHALRGKEDPLRPAADDDGY
GGVSAREAAVGVALRAVARLGF SALTAALAVAYLDRCFLGGALRLGDRPWMARLA AVACVALAAKVEETRPV
VLLDLQLCAAERADPNEAYVFEDKTVRMELLVLSALGWRMHVPVTPLSYLQPLLGTAAHARLHHCDTALLAL
MPDWRWRPRRPSAWAAAALLATAGWCGGGGGDAELLALIDAPKDEMAECAKIISEAAAAAAGGIVIGGEN
KRKGAAGLYSAPASPSGVIGASACFSCDSSSSSVDSLFAALEPPGRPIKRGAAAATTADPLPADEESRD
AWPYAA*

Poplar CYCD

>Poptr;CYCD1;1 (AM746109)

MSYSDCLSDLLCGEDSSDIFSGESPECSSDLESHDFVEESSIAGFIEDERNFVPGYDYFSRFQSQSLDASAR
EQSVAWILKVVQACYGFQPLTAYLSVNYLDRFLYSRRLPQTDGWPLQLLSVACL SLAAKMEEP LVP SLLDLQV
EGAKYIFEPRTIRRMELLVLGVLDWRLRSITPFSFTGFFACKLDPAGAYTGFLISRATEIILSNIKEASFLE
YRPSSIAAAAAILCAANDIPNLSLVNPEHAESWC DGLSKDKIISCYRLMQDLVLDSSRRKSTKVLLPRLRVTI
RARMRSSGSDSSSSSSSSSSSYKKRKLNNCLWVDDDKGNSE*

>Poptr;CYCD1;2 (AM746110)

MSYSDCLSDLLCGEESDIFSGESPGCSTGLESHDFVEESSIASFIEDERNFVPGFDYLSRFQSQSLDASAR
EESVAWILKVVQAYHGFQPLTAYLSVNYLDRFFYSRRLPQTDGWQPQLLSVACL SLAAKMEEP LVP SLLDLQV
EGAKYIFEPRTIRRMELLVLSVLDWRLRSITPFSFTGFFACKLDPAGAYTGFLISRATEIILSNIKEASFLE
YWPSSIAAAAAILCAANDIPNLP LFNPEHAESWC DGLSKDKIISCYRLMQDLVLDNSRRKSTKVLLPQLRVTI
RARMRSSGSDSSSSSSSTSSYKKRKLNNCFWVHDDDKGNSE*

>Poptr;CYCD1;3 (AM746111)

MSPHPSPDHCAAVNSLYCGEDASENTITKFIDSESQFMPLSDYLHRCRHRSIDTTARQDSINWILKVHAHY
AFRPLTALLSVNYFDRFLSSYSLPENGWPYQILSVACL SLAAKMEEP DVPLLLDLQVLEPGFIFEPKNIQKM
ELRVMAYLNWRLRSVTPFDYLDYFISKLPSCSSTNPDNFSRLLKDSDDLILNTRVIDFLGFTPTSTVAAAAA
ISAAGKSYDTIPWEAGDQFFHERVNMKEMVRSCHQLMEEYLIDTCPLSRHKIDHYPPAPD T LSNFYLY*

>Poptr;CYCD1;4 (AM746112)

MQVYAHYEFRPLTALLSVNYFDRFLSSYSLPENGWPFQLLSVACL SLAAKMEEP DVPLLLDLQVLEPGFIFEP
PKNIQKMELRVMANLNWRLRSTTPFDYLDYFISKLPSCSSTKPENFDRVLKKSADLILNTRVIDFLGFTPTST
TVAAAAVI SAAGKNFDTIPLKAGVGQFFHERVNREMVRSCHQLIEEYLIDTCPTARLKDLSDDALVDPASPA
GVLDAACGSCSTRSENPI SASSQAPETEP I KRLRSTATDVQEP*

>Poptr;CYCD1;5 (AM746113)

MSVSADVSTPSVNYLCNETAGDALCSNNADGISEINSAYFPVDIDESYIDNIVSELHQMPETELIARFPDI
PESGSAHQDTLNLWMLKVHAYCRFRPETAYLSANYFHCFILSHTLQKGGWPLQLLAVACL SVAAKLEETRVP
SLLDIQTLEPRFLFKPSTVRRMELLVMGSLKWLHIITPFSFLHYFIAKLSHLSPRSKNLI LAHSSDLIIST
CRVMNILAYTPSTIAAAAVLWVTDQSIGCPKLECFHNRMSKEMVRGCYNLIKQNTPQLSRGKALDATIPGKC
LAKKCCSKDFKSSQDMSPSKC*

>Poptr;CYCD2;1 (AM746114)

MAPSFDCAVSNLLCAEDNNSIFDDNDHYDATVEEFEATWHHGNHQICNQNGGGDGGCLPMQSDDECLVLMVEK
ECQHLPNGDYLRKRLRNGDLDMGARKEAVDWIAKAGSFFLFFFTIVHAHFGFGPLCAYLSINYLDRFLSAYE
LPNGKPWMMQLLAVACL SLAAKMEETEVP LSLDLQVGESRFVFEARTIQRMELLVLSTLSWRMQAITPFSFI
DYFLSKINNDQTPPKSLILQSIHLILSTIRGIYFLEFRPSEIAAAVAIAVVGETKTVDQAEQAI SVLAQPVQ
KERV LKCLQLIHDLSLFGG SVKGT SASLLSVPQSPIGV L DAACL SYSSNHTTVEPCANSSHNT PDAKRRKLD
K*

>Poptr;CYCD2;2 (AM746115)

MAPSFDCTVSSLLCAEDNNSIFDDNDCYDATVEEFEATWHHGNHQIQNQNSGWLPMQSEDECLVLMVEKECQ
HLP SGDYLRKRLRNGDLGLGARKEAVDWIAKVNAHF GFGPLCAYLSVNYLDRFLSAYELPKGNAMMMQLLQV
CLSLAAKMEETEVP LSLDLQVGESRFVFEARTIQRMELLVLSTLDWRMHAITPFSFIDYFLGKIINDQTPPR
SLILQSIILLILSTIKGIYFMEFRPSEIAAAVSI AVVGETKTVDVEQAI SVLAQPVQKERV LKCFQLIHDLSL
FGESXSSKGPSASLLSAPQSPIGV L DAACL SYNSDVGPCANSSHNT PDAKRRKPAKPC*

>Poptr;CYCD3;1 (AM746116)

MASMYNPETSAVQDQQYQQNPTLLYDALYCSEENWVEEVREDCFQDELEGESYCSNNSKNLNTFPFI FLEQD
LSWEDEELSSLFAKEEQNLCKDLETNPSLARARCEAVEWILKVNEHY SFTALTAVLAVNYLDRFLFSVHLQ
KEKPWMAQLAAV SCLSLAAKVEETQVPLLLDFQVEDSKYVFEAKTIQRMELLVLSTLKWKMNPVTPISFLDY
ITRRLGLEHYLCLEFLKRCERMVLSILADSRMPYVPSVMAAATMLYVIDNIEPSLAAEYQSQLLSILGIDK
DKVEDCSKFLMEFALRYHFKLLSNKRKFCSLPGSPSGVVDVFS SSSDSSNDSWSVASSVSSSPKPLSKKSRAL
QSLNNATTSDFSQHSSLVP*

>Poptr;CYCD3;2 (AM746117)

QYQQNPTFLYDGLYCSEENWEKEVREDFYQDEVKGEYFYSIDSNKRNTFPVVFVQQDLSWEEELSSLFAKEE
QNQLYKILEINPSLARARCEAVEWILKVNVDHYSFSAVTAVLAVNYLDRFLLSVHLEKDKPWMAQLAAVACL
LAAKVEETQVPLLLDFQVEDSKYVFEAKTIQRMEILVSTLKWKMNPITPISFLDYIIRRLGLKDYLCLEFL
KRCERIVLSVVPGLSMLYVPSVMATAVMLYIIDGVEPSLAAEYQSLLGILGIDKDMVEDCSKLVME LAPR
DHFKFSSKRKYSSIPGSPNGVIDVSFSSDSSNYSWSVSVSSSPEPLSKKTR*

>Poptr;CYCD3;3 (AM746118)

ELNSQQEQNASFLLDALYCEEGRWEDESEEEVLQESTFVNDLFPLSLLEQDLFWEDEELLSLFSKEQEQQAS
VSVNNVADDPFLSRARQEAVEWMLKVIAHYGFSALTSILAFNYLDRFLSGPCYQRDSRPWMIQLVAVTCLSL
AAKVEETHVPFLLDLQVEDTKYVFEAKTIQRMELLVSTLKWKMHPVTPLSFLDHIIRRLGLKTHVHWEFLR
RCEHLLLSVVSDSRSVSYLPSVLATATMMHVIDQVETFNPIDYQNQLLDVLKITKEKVNCGYGLILELSRNR
TIANNKSQKRKFEPMPSSPSGVIGAVFSSDSSNDSWAVQGSVSSSPEPLFKKSRTOQDK*

>Poptr;CYCD3;4 (AM746119)

MAIPKQQLGQNELSTQQEQNTSFLLDALYCEEKWEDESEEEVLQESPSVNNPSGDLFSISLLEQDLFWED
EELLSLFSKEQEQQASVSVNNVASDPFLSRARQEAVEWMLKVIAHHGFSALTSILAINYLDRFLVSPCYQRD
NRSWMIQLVAVTCLSLAAKVEETHVPFLLDLQVEDTKYLFEAKTIQRMELLVSTLKWKMHPVTPLSFLDHI
IRRLGLKTNVHWEFLRCEHLLLYVVSDSRSGCYLPSVLATATMMHVIDQVETFNPIDYQOTQLLDVLKITKE
KVNGCYGLILELSRTRAIANNKPKRKFEPPTLQGSVSSSLETFLFKKGRTOQDQWVFDIIGSPR*

>Poptr;CYCD3;5 (AM746120)

MSFLQEQDTHRQSPALVLDGLYCEEFGEDYSCGFDDIIGDQNIKKEQTLSSVLLQDLFWEDNELLISLIS
KEKETHVRFDDGGGSDGSLMVARREAVEWFLRVKAHYGFSALTGVLAVNYFDRFISSSRFQRDKSWMGQLAA
VACLSLAAKVEETHVPFLLDLQVEDAKYIFEAKTIKRMELLVSTLQWRMNPVTSISFFDHIIRRLGLKTHL
HWEFLWR CERLLLSVSDSRFMSYLP SILATVTMLHVIKEGDPNQLQYQQLMAVLKTNEDEVNECYKLI
EPGSGNQNRHKRKYLPSTPSSPNGVIDAFSSDISNNSWAVASSVSSSSVPPQFKRSRAQVQOMRLPSLNCMCV
DVLSSPR*

>Poptr;CYCD3;6 (AM746121)

MSFFQQQETHNQSPALALDGLYCEEEDGFEDYSCSLDDETSQVYEQNVKKEQNLSPVLLQDLFWEDNELLIS
LISKEKETHVFDVSGSRDGLSMVVRREAVEWFLRVKAHYGFSALTGVLAVNYFDRFISSSRFRDRKPMWQ
LAAVACLSLAAKVEETQVPLLLDLQVEDAKYVFEAKTIKRMELWVSTLHWRMNPVTSISFFDHIIRRLGLK
THMHWEFLWR CERLLLSVSDSRFMSYLP SILATATMLHVIKEVEPRNQLQYQQLMAVLKTNEDEVNECYK
LILEQQGSONQRHKRKYLPSTPSSPNGVIDATFSSDSSNDSWAVASSISSSSVPPQFKRSRSHVQOMRLPSL
RMCVDVLSPPH*

>Poptr;CYCD5;1 (AM746122)

MGDFDNSLSLSSLLCHENESCFFNDSISDHSNIKHDRSRFGLTEVDVEYVEKLVRETITFGYRCHASFDD
CLITSHNWLK FARLDAIEWILNTRATYGRFHTAYLSVTYFDRFVSKRSIDEGKLWAI RLLSVAACL SLAAKM
EERKVPPLSEFPVEDYCFGNKVIQRMELLVNTLEWRMNSITPFAYLHYFIHKTCGESTPKETVSRAVELIV
AMIKEIDLLDHRPSIIAAA AVLAASNRQLTRKELELKMDMISSWGSLENENVFSCYIAMQEIEMGKAKT PRL
VFYPNSSAIHSGSFDVLENSL SVSGAGIKRSLTFNECDQTCPAKKICRP*

>Poptr;CYCD5;2 (AM746123)

MADESLSPGDLFCYEDFLGELAVADEDDTYIDITR TYVGDPTDEEYLTLLANREPHQGFNANETLVLDASF
RTARLEAITWILRTRKNFGFHFHTAYLSMIYFDRFLSSRFIDRNYTRVSLISVGCISLAAKMEEVVPSLP
QLQTEGVTTFESTNVERVELGILSTLQWRMNYATPFAFLRYFIKFSRQDSPRET VSRVQSILALMREIHL
MSHRPSVIAAAATLVV LNNSLTRTTLETQMNSIAYPGFLNIVSD*

>Poptr;CYCD5;3 (AM746124)

MAGESLSPNDLLRQEDFRAELVADEDDTYIDISRTYVGDPTDEEEY LALLANQEPHRGFSANDTLVIDSW
FRNARLEAITWILRTRKTFGFHFHTAYLSMIYFDRFISSRSIDRRYSWVVKLISVACISLASKMEEVQVPSS
PEFQTDGVI FESKSVKRVELGILSTLQWRMNYTTPFAFLRYFIMRFSRQDSPRETISR TVRYILALMKEIH
LMSHRPSVIAAAASLVV INNSLTRTTLETQMNSVAYPGFLNIEDVFCYNLLQQLDVENLRSTANGLPLKAR
PALFLFEALLAVFKFERGHETQDIVYGNQKEFLCLIIIL*

>Poptr;CYCD6;1 (AM746125)

MKLDLENPLTSSEEHQSDTITYLFASEFDHMP SRNLLNFLETCDHFYVSRHEAISLILQAQYSCNCGPFIP
YLAVNFMDFRFSRMEIPQGKPWILRLVVVSLSLAAKMENTDFSISNFQGEAGFIFDNKTINRMELLILD
LDWRMRSITPFSFVHFFISLSQLKDPALTQTLKDRATEIIFKAQNEIKLLKFKPSIIAASALLVASKELLPL
QFSPFKFSISAFECVKEFNVGVRASLRAPRLIPWALKLTTM*

>Poptr;CYCD6;2 (AM746126)

MEFDLENPLTSLEEHQSDTVPNLFASESDHMP SRNFLHCLKTS GFYVSRQE AISLILQAQYSCNYDAFIPY
LAVNYMDFRFSRQEIPQGKPWILRLVVISCLSLAAKMKNHFSVSDFQGEAGFIFDTQTINRMELLILDAL
NWRMRSITPFSFVHFFISVLELKD PSSSQPLKDRATEIIFKAQNEIKFLEFKPSIVAASALLVASNELLPLQ
FPLFKCSISSCAFVNKEKLLSCFNAVQEMVEMEWYESMLDTMSCTRTPLSVLD RQCTKSESETTSTTSINNG
STVPEIKRRRLNGHSSK*

>Poptr;CYCD6;3 (AM746127)

MEFDLENPLTSLKEYVSDTIPDLFVSESDHMP SRNFLHCLKTSDFYVSRFREEAISRLILQAQYSCNYDLFIPY
LAVNYMDFRFSRQEIPQGKPWILRLLVISCLSLAAKMKNKHFSISNSQAEAGFIFDTQTINRMELLVLDAL
NWRMRSITPFSFVHFFVSLFELKD PSSSQPLKDRATEIIFKAQNEIKFLEFKPSIIAASALLVASNERFPLQ
FPCFKCSIYSCEFVNEEKLLECFNALQEMVEMEWYESMLDTMSWTRTPLSVLD RHF TKSENETTSIITSTTT
ITNGSTVPEIKRRKLN GYSGK*

>Poptr;CYCD6;4 (AM746128)

MDFNLENPLTNSHELHFDTPPSLFLIESDHMP SKNYLKTKEIDFDVSRREAISSVLRVSCNFDPSLSYLA
VNYLDRFLSSQGIPQPKPWVFKLLAVACVSLAAKMEAEFYVTDIQGDGGFVFDPQTIQKMEVLI LGALNWR
MRSITPFSFISFFISLFKPKDPPLRQALKARACEIIFKAQNDINLLEFRPSLTAASALLYACHELFPMQFLC
FRKAISICSYVNKENLLQCYNAMQETAMDGYKSQFDMVSSSDTPVNVLD RHFSSSESENTNGTVVMISSNGS
NKTWPEKGIKRRKISALCANNQTVQFSAFSDATTMLM*

>Poptr;CYCD6;5 (AM746129)

MDFNLENPLANSDFHFDTPSDLFLIESDHMP SNNYLNTLKE MFDGDFRREAISSVLRVSCNFDPSLSYL
AVNYLDRLLSSQGIPQPKPWLFRLLAVACVSLAAKMEAEFCISDTQARXDGGFVFDTQTIQKMEVLI LGAL
NWRMRSITPFSFISFFISLFKPKDPPLRQALKARASEIIFKAQNDINLLEFKPSLIAASALLYASHELFPMQ
FLCFRKAISNCSHVNKENLLQCYNAMQEIAMDGYRSQFDMVSSSDTPVNVLDQHFSSESEKT*

>Poptr;CYCD7;1 (AM746130)

MDSLLCDEVWLSPPATPDHNNQPRYSHGENYAAASSFYTTKEDCEKAVSIYLEKEFTCMPEPGYVEHLRTKN
LLFARLRAIQWLIKSRERLSLSFETVFNAANYLDRFMSMNQCHGWKCWMVELLCVACL SVASKFTETRTPCL
HDIQMEDLDHSFQPITIQRMELVLLRALGWR LGSTTAYSVELLMMEIDFLKSYSYLQKDLVACRITELLG
AMQDCSMVGF RPSITAI SALWCSLEEFVPSKSDAHLAHIKGLLNALDHKDDVVIKCHGIMEAQLINPVYNLL
ACGKKHSYCCPSPVTVLPTERIGIYDCDV DLSFFNDSGSSNNKQETS KKKRWHEKSIKDDGFQKRIK*