

S.p.Dcr1 1 -----
A.t.CAF 1 MVMEDPREATIKPSYWLDACEDISCDLIDDLVSEFDPPSSVAVNESTDENGVIINDFFGGIDHILDSIKNGGGLPNNGVSD
M.m.Dicer 1 -----
H.s.Dicer 1 -----
D.m.Dicer-2 1 -----
C.e.Dicer 1 -----

S.p.Dcr1 1 -----
A.t.CAF 81 TNSQINEVTVTPQVIAKETVKENGLQKNGGKRDEFKSKEEGDKDRKRARVCSYQSERSNLSGRGHVNNFREGDRFMNRKRT
M.m.Dicer 1 -----
H.s.Dicer 1 -----
D.m.Dicer-2 1 -----
C.e.Dicer 1 -----

S.p.Dcr1 1 -----MDI
A.t.CAF 161 RNWDEAGNNKKKRECNNYRRDGRDREVRGYWERDKVGSNELVYRSWTWEADHERDVKKVS GGNRECDVK EENKSKPEER
M.m.Dicer 1 -----MNEKPCFAALS MAGLQ LMT PASS PMP PFFGLPWQQE
H.s.Dicer 1 -----MAGLQ LMT PASS PMP PFFGLPWQQE
D.m.Dicer-2 1 -----
C.e.Dicer 1 -----MVRV

S.p.Dcr1 4 SSFLPQLLRKYOQDVYNIASKQNTLLVMTGAGKTLIAVKKLKKKLEQILIQSNLEHKKISVFLVNKVELVFOQAEY
A.t.CAF 241 KEFVVEEQARRYQLDVLEQAKAKNTIAFLETGAGKTLIAILLKSVHKDLSQNR-----KMLSVFLVPKVELVYQAEV
M.m.Dicer 37 AIHDNIYTPRKYOVELLEAALDHNTIVCLNTGSGKTFIAVLLTKELAHQIRGDLN---PHAKRTVFLVNSANQVCQVSA
H.s.Dicer 26 AIHDNIYTPRKYOVELLEAALDHNTIVCLNTGSGKTFIAVLLTKELSYQIRGDFS---RNGKRTVFLVNSANQVACQVSA
D.m.Dicer-2 1 MEDVEIKPRGYQLRLVDHLTKSNQIVYLPFGSGKTFVAILVLRKFSQDFDKPIE---SGKRALFMCNTEVLRQOAMA
C.e.Dicer 5 RADLQCFNPRDYQVELLDKATKKNTIVCLNTGSGKTFIAVLLTKELVGVQLFAPLD---QGKRAFFVVEKVNLVQOAIH

S.p.Dcr1 84 IRSQIPAKVGMFYCELS--IEMSELLTNIIILKYNVIVITADLFYLFARCELSINDINLIFDECHHAIGNDAYARIMN
A.t.CAF 316 IRNQTCFQVGHYCGEMGDFWD-SRRWREFESKQVLVMTAQILNLRHSITRMETIDLLILDECHHAIVKHPYSLVMS
M.m.Dicer 114 VRTHSDLKVGEYSNLEVNASWT-KERWQEFKHOVLIMTCYVALTVLKNGLSLSNDINLLVFDECHLAI-IDHPYREIM
H.s.Dicer 103 VRTHSDLKVGEYSNLEVNASWT-KERWQEFKHOVLIMTCYVALTVLKNGLSLSNDINLLVFDECHLAI-IDHPYREIM
D.m.Dicer-2 77 VRCTNFKVGIFYVCEQGVDDWT-RGMWSDHKKNOVLVGTAVQVFLDMVQTQYVALSSLGVLVIFDECHHGT-GHHPREFEM
C.e.Dicer 82 IEVHTSFKVGVQVHGCTSSGLWDSKQOCDFMKRHEVVVITAOCLLDLIRHAYLKEEDMCVLIIFDECHHAIGSQHPYRSIM

S.p.Dcr1 162 DFYIRAKAVLSKKHFTLPRIFGMTAS--PFTCKKG--NLYHRLYQWEQIFDSKAHVVSENEAD---YFCLP-----
A.t.CAF 395 EFYH-----TTPKDKRPAIFGMTASPVNLKGVSSQVDCAIKIRNLETKLDSTVCTIKDRKELE---KHVMPSEIVVEY
M.m.Dicer 192 K-----LCESCPCPRILGLTAS--ILNGKCDPEELEEKIQKLERLRSDAETAIDLVLVD---RYTSCPCPIVVD
H.s.Dicer 181 K-----LCENCPCPRILGLTAS--ILNGKCDPEELEBEKIQKLERLRSDAETAIDLVLVD---RYTSCPCPIVVD
D.m.Dicer-2 155 RLFT-----IANQTKLPRVVGLTGV--LIKNEIT-NVATKLELEITYRGNITVSDTKEMENVMLYAKPTEVLVVSF
C.e.Dicer 162 VDYK-----LLKKDKPVPRVLGLTAS--LIKAKVAPEKLEMLKLESANSDSVIETASDLVLSL---KYGAKPYEVVITIC

S.p.Dcr1 227 -----EESYVMYSNKLVPSPD-----SILKKCEETLOGKLTISRAVKTALAETHDMG
A.t.CAF 466 DKAATMWSLHETIKOMTAAVEEAQASSRSKQVFMGARDAGAKDELROVYGVSERTESDGAANLTHKLRAINYTFAEELG
M.m.Dicer 259 GPETD---RSGLYERLLMEEAALDFIND-----CNVAVYSKERDSTLSKQILSDCRAVLVVLG
H.s.Dicer 248 GPETD---RSGLYERLLMEEAALDFIND-----CNVAVYSKERDSTLSKQILSDCRAVLVVLG
D.m.Dicer-2 226 PHQEQVLTVIRLISAEIEKFYVSLDLMNFVQPIRR---SKSLQCLRDPSSKKSFKQLFNFPLYQMKKEYG
C.e.Dicer 232 KDEIGCLGIPNFTVIEIFDETFVAVNT-----HTEFHDDLDPRRPKDSDLTTRAVFRQLG

S.p.Dcr1 275 LWFGEQVWLYLVDFVETKRLKKA--LGLQSDDEELADRLKIFVDEWK-----NNKYSNDNGPRVPEVDSTVVT
A.t.CAF 546 QWCAYKVCQSFLSALQSDEEVNFQVDVKFOESYLSVVSLQCELEEGAAAEKVAEAVGKPENGNAHDEVEEGELPDDPV
M.m.Dicer 316 PWCADKVAQMMVRELQKYIKHEQE-ELHRKFLFLFDTLRKRITAHCEEFSPASLDLKVYTPKVMKLEELRKYKPYERQ
H.s.Dicer 305 PWCADKVAQMMVRELQKYIKHEQE-ELHRKFLFLFDTLRKRITAHCEEFSPASLDLKVYTPKVMKLEELRKYKPYERQ
D.m.Dicer-2 293 IMAASIAIISLIVFEDIKREQAETLSVRLMHRALTLCERIRHLLVOKLQDMTYD---DDDNVNTTEVIMNFTPKVQ
C.e.Dicer 292 PWAAWRTAQWKEKELGKILKSQVLPDKTLEFLINMAKTSMTITKRLLEP-----EMKKKLSIEALRPPYVQRVI

S.p.Dcr1 343 DKVEKLELLKATYRKSDS-----VRTVIFVERKATAFTLS-LFMKTLN-----
A.t.CAF 626 VSGGFHVDEVIGAAVADGKVTPKVQS-----LIKLLKYOHTADRAIVVERVVAALVLPKVFALPS
M.m.Dicer 395 --QFESVWYNNRNDNYVSWSDSEDDDDDEEIEEKEKPETNFSPFTNLCCGIFVERRYTAVVLN-RLKKEAGKQDPE
H.s.Dicer 384 --QFESVWYNNRNDNYVSWSDSEDDDEDEEIEEKEKPETNFSPFTNLCCGIFVERRYTAVVLN-RLKKEAGKQDPE
D.m.Dicer-2 369 RFTMSLKVSEADKDF-----KDTCCLVFVERRYTCCKYGLLNYIQSTPEL
C.e.Dicer 360 R-LFELLTFENPEFCKERMKLEKAEH-----LSAIFVDRVYTAYSLL-LMMRHKISWEPK

S.p.Dcr1 386 LPNIRAHSEIIGHGP----SDQGFMSMTRRQKDTLHKFTGKYNLIATAVAEEGIDVPSCNLVIRFNICRTVTOVYQSR
A.t.CAF 690 LSEFIRCASMI GHNN-----SQEMKSSQMDTISKFRDGHVTLVATSVAEEGLDIRQCNVVRFDLAKTVLAVYQSR
M.m.Dicer 472 LAYISSNFTTGHGIGKNPRSKQMAEAFRQOEVLRLKFRAHETNLLIATSVEEGVDIPKCNLVVRFDLTEYRSYVQSK
H.s.Dicer 461 LAYISSNFTTGHGIGKNPRNKQMAEAFRQOEVLRLKFRAHETNLLIATSVEEGVDIPKCNLVVRFDLTEYRSYVQSK

D.m.Dicer-2 416 RNVLTPTQFMVGRNN---ISPDFESVLERKWKOKSAIQQFRDGNANLMICSSVLEEGIDVQACNHVFILDPVKTFTNMYVQSK
C.e.Dicer 414 FKFNVPDYVVGASG--RNLASSDSQGLHKRQTEVLRFRFRNEINCLAIATSVLEEGVDVKQCNLVIKFDRELDMRSYVQSK

S.p.Dcr1 462 GRARA-----
A.t.CAF 762 GRARKPGSDYILMVERGN-VSHAAFILRNARNSEETLRKEAIERTLSHLKDTSRILSIDAVEGTVYKVEATGAMVSLNSA
M.m.Dicer 552 GRARAPISNYVMLADTDKIKSFEEEDLKYKAIEKILRNKCSKSDAGAEADVHAGVDEDAFPPYVLRPDDGGPRVINTA
H.s.Dicer 541 GRARAPISNYVMLADTDKIKSFEEEDLKYKAIEKILRNKCSKSDVDTGETDIDPVVDDDDVFPPYVLRPDDGGPRVINTA
D.m.Dicer-2 493 GRARTTEAKRFVLFADTKEREKTIQQIYQYRKAHNDIAEYLKDRVLEKTEPELYEIKG-HFQDDIDPFTNENCAVLLPNNNA
C.e.Dicer 492 GRARR-----AGSRVYVITVE

S.p.Dcr1 467 -----M A S K F L I F L N -----E E L L I H E R I L H E E K N L K F A L S E L S N S N I F D S L V C E
A.t.CAF 841 VGLVHFYCSQLPGDRYAILRPEFSMEKHKPG-----GHTEYSCLQLPCNAFFETLEGVCSMSRLAQAVCLAAC
M.m.Dicer 632 IGHINRYCARLPSDFETHLAPKCRTRELPDG-----TFYSTLYLPINSPLRASIVGP-PMDSVRLAERVVALICC
H.s.Dicer 621 IGHINRYCARLPSDFETHLAPKCRTRELPDG-----TFYSTLYLPINSPLRASIVGP-PMSQVRLAERVVALICC
D.m.Dicer-2 572 LATLHRYCQTIPIDAFGFVLPWFHVLQEDERDRIFGVSAKGGHVISINMPVNCMLRDTIYSD-PMDNVRLAKTISAFFKAC
C.e.Dicer 507 EKDTAAAYCSKLPSDIFTRIVPHNQIPIEBNG-----VTKYCAELLLPINSPIKHAIVLKNMMPNKKTAQMAVALEAC

S.p.Dcr1 513 EREAVTDIVYEVGET-CALLTG-----LYAVS
A.t.CAF 913 KKLHEMCAFTDMLLPDKGSGQDA-----EKADQDDECEPVPCTARHREFYEGVAVLKGEMVSSSGKEVCESSKL
M.m.Dicer 701 EKLHIGELDEHLPV-GKETVK--YEELDLHDEEETSVPGRP--GSTKRRQCPKAIPTCLRDSYPRPQPCYLYVIG
H.s.Dicer 690 EKLHIGELDDHLPV-GKETVK--YEELDLHDEEETSVPGRP--GSTKRRQCPKAIPTCLRDSYPRPQPCYLYVIG
D.m.Dicer-2 651 KVIYSLGELNERFVPKTKERVASIADVHFEHWNKYGDSVTATVNKADKSKDRTYKTECLEFYDALPRVGEICAYEYIF
C.e.Dicer 580 RQLHLEGELEDDNLLPK-GRESIAKLLHIDDEPDEYAPGIAAKV--GSSKRRKQLYDKKLARALNSESVEADKCEFYAFE

S.p.Dcr1 540 LLYNFCNTLSRDVYTR-YEFTFTAQPCLSG-----
A.t.CAF 983 FHYMHNVRCVDFGSSKDPFLSEVS-----
M.m.Dicer 776 MVLTTPLPDELNFRRRKLYPPEDTTRCFGLITAKPIPIQIPHFPVYTRSGEVTISIELKKSGLFSLQMLELITRLHOYIF
H.s.Dicer 765 MVLTTPLPDELNFRRRKLYPPEDTTRCFGLITAKPIPIQIPHFPVYTRSGEVTISIELKKSGLFSLQMLELITRLHOYIF
D.m.Dicer-2 731 LEPQFESCHYTEHMYLNLQTPRNYAILLRNKLPLAEMPLFSNQGKLHVVRAN---APLEVIITQNSEQLLELHQFHGMVF
C.e.Dicer 657 LERFREAEALTLPKRRKFEDFPNVEYCFGLSAKELPKT-----TVTAAQLQELHQLFHNYLE

S.p.Dcr1 569 -----WYCFEVELPKACKVPAQOSPCKSTRKAKQNAAFIMGLDLIRMGIT
A.t.CAF 1008 -----FAILFGNELDAEVLMSMDLYVARAMITKASLAFKGSLDITENQLS
M.m.Dicer 856 SHILRLEKP-ALEEKPTG-AESAYCVLPLNVVNDSSGLTLDIDFKFEMEDIEKSEARIGIPSTKYSKTFPFFVKLEDYQDAVI
H.s.Dicer 845 SHILRLEKP-ALEEKPTD-ADSAYCVLPLNVVNDSSGLTLDIDFKFEMEDIEKSEARIGIPSTKYSKTFPFFVKLEDYQDAVI
D.m.Dicer-2 808 RDILKIWEF--FVLDRRSKENSYLVPPLIIGAGEQKCEDWELMTNFRLLPQSHGSNVQOREQQP--APLPEDEEGKIV
C.e.Dicer 714 IQVLMQCKTGNLEEDGTSNAPLNTLLVPLNKRKDDMSYTNMKYVSEVANMENLPR-LPKDEVRRQYKFNEDYKDAIV

S.p.Dcr1 615 DKLLKPLDFRRKIADLETLEDELKDEG-YIETERYVPKSWMKVPEDTTRCFVSLIYTDANEGDNHIFHPLVVFQAHSF
A.t.CAF 1055 LKIKFHVLRMSIVLDVDFPSTPWPDPKAYLFPVPTDNTSMEPKIGINWELVEKTKTKTAWDNPQRARPDVYLTGNER
M.m.Dicer 934 LPRYRNFQOPHRFYVADVYTDLTPLSKF-ESPEYETFAEYKTKYNLDDLNLNQLPDDVDHTSSRLNLLTPRHLNOKGKA
H.s.Dicer 923 LPRYRNFQOPHRFYVADVYTDLTPLSKF-ESPEYETFAEYKTKYNLDDLNLNQLPDDVDHTSSRLNLLTPRHLNOKGKA
D.m.Dicer-2 883 TQWYANYDKF--MLVTKVHRELTPLSYMEKNQQDKTYEETMSKYGNRTG---DVVHKQKFMIEVRDLTECLTFYVHNR
C.e.Dicer 793 MFWYRNLEQPFVYVVAELPEWRPSSKF-EDTHPETFNEYFKKYYKLEIYDQNCQLDLDVDFTSIRLNLLOPRIQNPFRS

S.p.Dcr1 694 PKLDSFILN-----STVGERVKIVLETIEDSPKIDSHLELHKKSTRYLQFGIISTSEEQOI
A.t.CAF 1135 TLGGDRREYGF-----KLRHNIYFCQKSHETYGIRGAVASFDVVRASGLLEVRFAFEKEWEEDL
M.m.Dicer 1013 LPLSSAEKRAKWEQLQN-----KQILVPELCAIHPIPASLWRKAVCLPSILYRLHCLLTAABELRAQTASDA
H.s.Dicer 1002 LPLSSAEKRAKWEQLQN-----KQILVPELCAIHPIPASLWRKAVCLPSILYRLHCLLTAABELRAQTASDA
D.m.Dicer-2 957 GKFNKSKAKMK-----VILPELGFNFNEGDLWIKLFLPSILNRMYLELHAEALRKRENTYL
C.e.Dicer 872 RTVNSNSTSNIPQASASDSKESNTSVPHSSQRQILVPELMDIHPISATLWNVIAALPSIFRVNOLLTDELRETILVKA

S.p.Dcr1 751 P-----
A.t.CAF 1195 S-----
M.m.Dicer 1080 G-VGVRSLPVDFRPNLDFGWKKSIDSKSFISTCNSSLAESDNYCKHSTTVVPEHAAHQGATRP-SLENHQMSVNCRL
H.s.Dicer 1069 G-VGVRSLPADFRPNLDFGWKKSIDSKSFISISNSSSAENDNYCKHS-TIVPENAAHQGANRTSSLENHQMSVNCRTL
D.m.Dicer-2 1017 N-----
C.e.Dicer 952 FGKEKTKLDDNVEVNSLAVATEYEKQTIIVKKIQLRDLNOKSIEDQERETRENDKIDDGEELFNIGVWPEEAVRIGV

S.p.Dcr1 752 -----TPYWLAPLNLSTCYRLENLFDVDTIQNFFLPEPVQNVTDLQSDTVLLVNPQS-----
A.t.CAF 1196 -----KGLKLMADGCMVAEDLKGKIVTAAHSKGRFYVDSICYDMSAETSFPKRGYLGPLEY
M.m.Dicer 1158 PAKSPAKLQSEVSTDLTAINGLSYNKNLANGSYDIVNRDFCQGNQNLNYKQEIIPVQPTTSYPIQNLNLYENQPKBSNECP
H.s.Dicer 1147 LSPSPGKLVHEVSADLTAINGLSYNQNLANGSYDLANRDFCQGNQNLNYKQEIIPVQPTTSYPIQNLNLYENQPKBSNECP
D.m.Dicer-2 1018 -----LHLLPFGNTDYMPPPLEIDYSLKRNVDPLGNVPTEDIIEPKSLEPMPKTSIEASVA
C.e.Dicer 1032 EISSRDRDRMGEDQDITVGLTQGLDGNISDEDDLIPFVMDHYTARLTSNRNGIGAWSGSESIVPQCGWDWGPEDNSPM

S.p.Dcr1 807 IYEYAFEGFVNSEFMIPAKKKDKRPSALCKKPLRLNYSIWGNRAKSIIPKSQQR-----
A.t.CAF 1253 NTYADYKQKYGVDLNCQKQPLKRGVSYCKNLSPRFEQSGESETVLDKTYVFLP-----
M.m.Dicer 1238 ILSNTYLDG--NANTSTSDGSPAISTMPAMNAVKALKDRMDSEQSPSVGYSSRRLGPNPGLILQALTLNSASDG-FNIE
H.s.Dicer 1227 ILSNKYLDG--NANKSTSDGSPVAVMVPCTDITQVLKGRMDSEQSPSVGYSSRRLGPNPGLILQALTLNSASDG-FNIE
D.m.Dicer-2 1076 NLEITEFEN-----PWQKYMEFVDLSRNLLSITYPVELDYYYHFSVGNVCEFN-----
C.e.Dicer 1112 PFQILGGPGLNVQALMAIVGRVFDPESTASSLSQIVQESTVSPPKQLTRKEEQFKKLQNDLILKQAKERLEALEMSEDEME

S.p.Dcr1 863 -----SFYINLNYLPLPWSRHLKNSALLIPSIHYHIENLLVASSFIEHFR--
A.t.CAF 1311 -----PDLGVHPLSGSLIRGAQRLPSIMRRVESMLLAVQLKLLISYP
M.m.Dicer 1315 RLEMLGDSFLKHAITTYLFCTYPAHEGRLSYMRSKKVSNCNLYRLGKKKGLPSRMVVSIFDPPVNWLPFGYVNVQDKSN
H.s.Dicer 1304 RLEMLGDSFLKHAITTYLFCTYPAHEGRLSYMRSKKVSNCNLYRLGKKKGLPSRMVVSIFDPPVNWLPFGYVNVQDKSN
D.m.Dicer-2 1123 -----EMDFEKEYIAKNQFHMPTGNLYGNRTPAKTNANVPALMPSKPTVR
C.e.Dicer 1192 KPRRLIEDVFNLEDYGDQENQEDNTPTNFPKTIDEEIEELSLTGARKQELIDDNAAKTDVLERENCEVLP--VAINEKSR

S.p.Dcr1 907 -----LDCKIDTA-----COALTSAESQLNFDYDRLEFYGDCTFLKLGASITVFLKFPD
A.t.CAF 1354 IPTSK-----ILEALTAASCOETFCYERAEILGDAYLKWVVSRELFLLKYPQ
M.m.Dicer 1395 SEKWEKDEMTKDCMLLANGKLGFACEE-----EDLTWRAPKBEAEDEDFLEFYDQEHQFIDSLMLGSGAFV
H.s.Dicer 1384 TDKWEKDEMTKDCMLLANGKLGDEDEEEDDEE-----ESLWRAPKBEADYEDFLEFYDQEHRFIDNMLGSGAFV
D.m.Dicer-2 1169 GKVKPLLIQKTVSKEHITPAEQGE-----FLAATASSAADVFDMERLEILGDSFLKLSATFLYASKYS
C.e.Dicer 1270 SFSSEKESKAINGRILIRQISEEYVSHIDSDIGLVSPCLLLTALTITSNAAAGMSLERFETIGDSFLKLFATIDYLYHTLLD

S.p.Dcr1 955 TQEQYLHFNRRKKIISNCLYKVAIDCELPKYALSTPLFIR-HWCOPYGFOKS-----TS
A.t.CAF 1400 KHEGQLTRMRQOIVSNMVLVQFALVKGLOSYIQADRFAFS-RWSAAGVPPVFD-----ED
M.m.Dicer 1462 RKISLSPFASDSAYEWMFKKASLGSMPFASGLDFDFYS-SWDAMCYLDFSKAVEEDDFVVGFWNPSEENCGVDTCKQS
H.s.Dicer 1455 KKISLSPFSTIDSAYEWMFKKASLGSMPFSSDFDFDFYS-SWDAMCYLDFSKAVEEDDFVVGFWNPSEENCGVDTCKQS
D.m.Dicer-2 1235 WNECTLTEVRSKLVSNRNLLFCLIDADIPTKLNITIQFTPRYIWLPPGISLPHN-----VLALWQENPEFAKIGIHHNL
C.e.Dicer 1350 QHEGKLSFARSKFVSNCLYRLGKLLGIEQLIVANKFDAHDSWLPPECYIPTCDFKAPN--TDDAEKEDNERILLDGQVI

S.p.Dcr1 1007 DKCRYAVLQKISVKRIADMVEASIGACILDSG---LDSALKICKSLSVGLLDISNWDENWNYFDIN-----
A.t.CAF 1454 TKDGGSSFDEEQKPVSEENSDFEDGEMEDGE---LEGDLSYRVLSSKTLADVVEALIGVYVEGCKI AANHLMKWIG
M.m.Dicer 1541 ISYDLHTEQCIADKSIADQVEALIGCYLTSCG---ERAAQLFCISLGLKVLPIKRTSREKALDPAQENSSQOKSLSG
H.s.Dicer 1534 ISYDLHTEQCIADKSIADQVEALIGCYLTSCG---ERAAQLFCISLGLKVLPIKRTDREKALCPTRENFNSQOKNLSV
D.m.Dicer-2 1308 RDLALGDEESLIVKGNCSIDINYRNFVEGCRANQSFYAGAFSSEVNFVGLVTLINKVIADTLEALGLVIVKNYGLQHAF
C.e.Dicer 1428 EEKFNKGTWDIGGDVSKSTTDCGETITFPKQ---ARVGNDDISELPYNLLTQQHISDSIADAVEALIVHLLTLGPN

S.p.Dcr1 1070 -----TYADSLRNQVFPYS-----SYTEETIGYSFKNKKLHLAFIHPMSMS
A.t.CAF 1531 IHVED-----DPDEVGHLKNNVPESVLKSIDFVGLERALKYEFKRLKLLVEAITHASRPS
M.m.Dicer 1617 SCAAP--VGRSSAGKDEYGCLEKTPPROMFDHPDAEKLNLHLIS----GFETFEKKINRFRKNKAYLLOAFTHASYHY
H.s.Dicer 1610 SCAAASVASSRSVLDSEYGCLEKTPPROMFDHPDADKTLNLHLIS----GFENEKKNINRFRKNKAYLLOAFTHASYHY
D.m.Dicer-2 1388 KMIEYFKICRADIDKPLTQLLNLELGGKRRANVNTTEIDGFLIN-----HYYLEKNLGYTFKDRRYLLOALTHEPSYPT
C.e.Dicer 1504 PTKVMNWMGLKVIQKDKSDVPSLLRFIDTPPNPNAISLNLNLLWQQFOFTOLEEKIGYRFBKRAYLLOAFTHASYIN

S.p.Dcr1 1112 QQCYENYQQLLEFLGDAVLDYITVQYLYKKYPNAISGELTDYKSEYVQNKSLSYIGFVLNLHKYIQHESAMCDAITFEYQ
A.t.CAF 1588 S--GVSCYORLEFVGDAVLDHLITRHLLEFTYTSLEPGRITDLRAAANNENFARVAVKHKLHLVLRHGSSEALEKQIREFV
M.m.Dicer 1690 N-TTDCYORLEFLGDAVLDYLIITHLLEDPQHSFPGVLTDLRSALVNNITFASLAVKYDYHKYFMAVSEPLFHVIDDFV
H.s.Dicer 1685 N-TTDCYORLEFLGDAVLDYLIITHLLEDPQHSFPGVLTDLRSALVNNITFASLAVKYDYHKYFMAVSEPLFHVIDDFV
D.m.Dicer-2 1462 N-RTTGSYQLEFLGDAVLDLISAYIENNTKMPGALDRLSALVNNITLACICVRRHLHFILANAKLSEITISKFV
C.e.Dicer 1584 N-RVITGCYORLEFLGDAVLDYMITRYLLEDSRQYSEGVLTDLRSALVNNITFASLAVKVEFOKHTFAMCPGLYHMIKFKV

S.p.Dcr1 1192 ELIEAFRETAS-----ENPWFWE-----TSPKFTSDTLEAMI
A.t.CAF 1666 KEVQTESSKPG-----FNSEFISG-----DCKAPKVLGDIYESIA
M.m.Dicer 1769 KFOLEKNEMQG-----MDESLRRS-----EEDKEEEDIEVPKAMGDIFESLA
H.s.Dicer 1764 QFOLEKNEMQG-----MDESLRRS-----EEDKEEEDIEVPKAMGDIFESLA
D.m.Dicer-2 1541 NFOESQGHVNTNYRILLEEADVQTPPDLDDELDMTELPHANKCISQEAEGVPPKGFESMSTNVDVPKAGDVTLEALI
C.e.Dicer 1663 KLCSENFDTN-----FNAEYLVTT-----EEDIEGQEEEDIEVPKAMGDIFESVA

S.p.Dcr1 1226 CAIFLDSGFSLOSLQFVLPFLNLSIGDATHKAKGDIEKRYOILKQDGC-----EDFCTKCVIEVKSSSHKTLEN--
A.t.CAF 1700 GAIPLDSGKDTTAAKVFQPLLOPMVTP--ETIPMHVPVLEQERCQQAEGLYKASRSNTATVVFIDGVCQVQAQNP
M.m.Dicer 1812 GAIYMDSGMSLEVVWQVYVPMMPPLIEKFSANVPRSPVRELEMEPET-----AKFSPAERTYDG-KVRVT--
H.s.Dicer 1807 GAIYMDSGMSLEVVWQVYVPMMPPLIEKFSANVPRSPVRELEMEPET-----AKFSPAERTYDG-KVRVT--
D.m.Dicer-2 1621 AAAYLDCR-DLQRTWEVILNLFEELEOEFTRKVPINHTROLVEHKHAKP-----VFGSFTVEGCTVMVS--
C.e.Dicer 1710 GAIYLDSCRNLDITWQVIHMMRGTIELCCANPPRSPIRELMETFQSK-----VFFSKMERILESGKVRVT--

S.p.Dcr1 1297 -----TELHLTKYIGFSFFRHGNIVAYGKSRKVANARYIMKORLLKLEEDKSNLLYSNCNCKFSKK
A.t.CAF 1778 QKKMAQKLAARNALAAALKEKEIAESKEKHINNGNAGEDQGENENGNKKNCHQPFTRQTLNDICLRKNWPMPSYRCVKEGG

M.m.Dicer	1877	-----VEVVGKGF-----KVGRSYRIAKSAAARRALRSISKANQFQVPNS-----
H.s.Dicer	1872	-----VEVVGKGF-----KVGRSYRIAKSAAARRALRSISKANQFQVPNS-----
D.m.Dicer-2	1684	-----COFTCMEKT-----IKVYGFSSNKDQAKLSAAKHALQQLSKCDA-----
C.e.Dicer	1776	-----VEVVNMRFE-----TGMGRNYRIAKATAAKRALKYLHQIECQRRCSPSLTTV--
S.p.Dcr1	1358	KPSDEQIKGDGKVKSLT-----
A.t.CAF	1858	PAHAKRFTFGVVRVNTSDRGWTDECIGEPMPVSVKKAKDSAAVLLLELLNKTFS
M.m.Dicer		-----
H.s.Dicer		-----
D.m.Dicer-2		-----
C.e.Dicer		-----