

(1) 1 10 20 30 40 50 60 70 80 90 100

gg-SNAPC4 (1) MSRRDGP TGANLN AEREKIRREIEELERSIQLDVTSVDVAVS DSSLSSD DAEGDSS DAHAEMEVEVERE-----

mm-SNAPC4 (1) -MPRRQAEAMDIDAEREKITQEIQELERILYPGSTSVHFEVSESSLSSDSEADSLPDEDLETAGAPILE-----EEGSSES

hs-SNAPC4 (1) -----MDVDAEREKITQEIKELERILDPGSSGSHVEISESSLES DSEADSLPSEDLDPADPPISE-----EERWGEA

dr-SNAPC4 (1) -----MASD DLQAQRDKIQREILALESTLGADSSSIADQLSSDNSSDYESDDSGPTVERVERD DLETERLRIQREIEELENALGADAALENVLQDS DHT

SNAPC1/SNAPC5 Interacting Domain

(101) 101 110 120 130 140 150 160 170 180 190 200

gg-SNAPC4 (68) EDSSDD DLESSLLED PETCLQMN YVYQEV IQEKIEEVELL IIAQNKEQQKEIILCELDGRKTTRTG DGRNLP SNIFLGHF MKPYFKDKT TGI GPPSNE DAKE

mm-SNAPC4 (76) SNDEEDPKDKALPEDPETCLQLNMVYQEVIREKLA EVSQLLAQNQEQQEEILFDLSG TKCPKVKGDRSLPSYMYI GHFLKPYFKDKVTGV GPPANEETRE

hs-SNAPC4 (68) SNDEEDPKDKTLPEDPETCLQLNMVYQEV IQEKLA EANLLAQNREQQEELMRDLAGSKG TKVKDGKSLPPSTYMGHF MKPYFKDKVTGV GPPANEDTRE

dr-SNAPC4 (95) DSS EDSAD DLELPQNV ETCLQMN L VYQEV LK EKLAELEQLLIENQQQKEIEVQLSGPGNSIFSVPGVP PQQKF LGYFLKPYFKDKLTGL GPPANEETKE

(201) 201 210 220 230 240 250 260 270 280 290 300

gg-SNAPC4 (168) KAAQGIKSF EQLLSTKWK SKEKVLLQKSVVSDRLQRL LQPKLLKLSY SNQKLE NVKTEMEKQILEKQIKEVEREIEA INQLPESD LLLGGRFDEHDWEKIA

mm-SNAPC4 (176) KATQGIKAF EQLLVTKWK HWEKALLRKS VVSDRLQRL LQPKLLKLEYLHEKQSRVSSELERQALEKQIKEAEKEIQD INQLPEEALLGNRLDSHDWEKIS

hs-SNAPC4 (168) KAAQGIKAF EELLVTKWK NWEKALLRKS VVSDRLQRL LQPKLLKLEYLHKKQSKVSSELERQALEKQGREAEKEIQD INQLPEEALLGNRLDSHDWEKIS

dr-SNAPC4 (195) RMKHG S I PVDNLKIKR WEGWQKTLL TNAVARDTMK RMLQPKLSKMEYLSNKL CRAEGEEKEQLKA-QIELIEKQIAEIRTLKDDQ LLLGDLQDDHDWDKIS

(301) 301 310 320 330 340 350 360 370 380 390 400

gg-SNAPC4 (268) NVHFDGRRSSEELKKFWQNW EHPNINKNEWTEEEETERLKDI AAKRGYLDWQTIAQELGTNRRTAFQCLOKQYQTYN-KDLKRKEWTRDEDKMLLELVQEMRV

mm-SNAPC4 (276) NINFEGARS AEEIRKFWQ SSEHPSISKQEWSTEEVERLKAIAATHGHLEWHLVAEELGTSRS AFQCLOKQFOQYN-KTLKRKEWTEEEEDHMLTQLVQEMRV

hs-SNAPC4 (268) NINFEGRS AEEIRKFWQNSEHPSINKQEWSTREEERLQAIAAAHGHLEWQKIAEELGTSRS AFQCLOKQFOQHN-KALKRKEWTEEEEDRMLTQLVQEMRV

dr-SNAPC4 (294) NIDFEGLRQADDLKRFWQNFLHPSINKSVWKQDEIYK LQAVAEFEK MCHWDKIAEALGTNRRTAFMCFQTYQRYISKTFRRTHWTEEEEDLLRELVEKMR I

Myb DNA binding domain

(401) 401 410 420 430 440 450 460 470 480 490 500

gg-SNAPC4 (367) GSHIPYKKIAYYMEGRDSAQLIYRWTKSVDP SLKKGFWT FEEDAMLLAAVEKYGERDWYKIRTEVPGRSDAQCS DRYL KALHRDV KKGKWSLKEEEQLID

mm-SNAPC4 (375) GNHIPYRKIVYFMEGRDSMQLIYRWTKSLDPS LKRGFWAPEEDAKLLQAVAKYGAQDWFKIREEVPGRSDAQCR DRYIRRLHFS LKKGWRNNAKEEQQLIQ

hs-SNAPC4 (367) GSHIPYRIVY YMEGRDSMQLIYRWTKSLDPGLKKGWFAPEEDAKLLQAVAKYGEQDWFKIREEVPGRSDAQCR DRYLRRLHFS LKKGWRN LKEEEQLIE

dr-SNAPC4 (394) GNFIPIYIQMSHF MVGRDGSQLAYRWTSVLDP SLKKGFW SKEEDQLLRN A VAKYGTREWGRI RTEVPGR TDSACR DRYLDCLRET V KKGTVSYAEMELLKE

(501) 501 510 520 530 540 550 560 570 580 590 600

gg-SNAPC4 (467) LVQKHGLGHWSKIAS ELPHRTRS QCLS KWKIMIGSKASRCGKQVLRVTLEDVRRVLRNTCFQR---KR-----

mm-SNAPC4 (475) LIEKYGVGHWA RIAS ELPHRSGS QCLS KWKILARKKQHLQ RKRGRPRHSSQWSSSGSSSSSESDYSSSGSDGSSGSEN SDVLEASLEKSRALTPQQY

hs-SNAPC4 (467) LIEKYGVGHWA KIAS ELPHRSGS QCLS KWKIMMGKKQGLRRR-RRARHSVRWSS TS SSGSSSGSSGSSSSSSS-SEDEPEQAQAGEGDRALLS PQY

dr-SNAPC4 (494) KVAKYGVGWAKIAS EIPNRVDAQCLH KWKLMTRSKKPLKRPLSSITTSYPRNKRQKL LKTVKEEMFFN SSSDDESQINYMNSDESDD LAEDENLEI PQK

(601) 601 610 620 630 640 650 660 670 680 690 700

gg-SNAPC4 (533) -----

mm-SNAPC4 (575) RVPDIDLWVPTRLI TSQSQREGTGCYPQH PAVS CCT---QDASQNH HKEGSTTVSAAEK--NQLQVPYETHSTVPRGDRFLHFS DTHSASLKDPACKS--

hs-SNAPC4 (565) MVPDMDLWVPARQS TSQFPWGGAGAWLGGAASLSP PKGSSASQGGSK EAS TTAAAPGEETS PVQVPARAHGPVPRSAQASHSADTRPAGAEKQALEGGR

dr-SNAPC4 (594) EYVQTEMKEWIPRNAMVWITPGSFRTLWVRLPTNEEELRESTKESGLGSDSSENSACPND EPIXERN TILDRFGDVERITYVGMNTIVVLHRRTDDEKA--

(701) 701 710 720 730 740 750 760 770 780 790 800
 gg-SNAPC4 (533) -----TSGVGASAAEKHRGLWSTMGKSRQERARWRKMNIIDRKILLMAVTPWVGDVLLPCTLRAG
 mm-SNAPC4 (668) -----HTLMKERPKQPLLPSSRS GSDPGNNTAGPHLRQLWHGTYQNKQRRKQALHRRLLIKHRILLAVIPWVGDIINLACTQAPR
 hs-SNAPC4 (665) RLLTVPVETVLRVLRANTAARSCTQKEQLRPPLPTSSPGVSSGDSVARSHVQWLRHRATQSGQRRWRHALHRRLLINRRILLAVTPWVGDVVVCTQASQ
 dr-SNAPC4 (692) -----MFKVC-----MSDVKQFIQMKATEFAVKKKKIKNKKRTLDRVFSINTDLQKAVIPWIGNVIIISTPANEA

(801) 801 810 820 830 840 850 860 870 880 890 900
 gg-SNAPC4 (592) KMAFDQTKAYSIQQKLSVLSLSTPLFTLFIQLFRIDTNGCMKIIERRADAARPQPGS-----HLTPDSMLPLTWVVTQALLSSAVQAVVGVPQGLQ
 mm-SNAPC4 (747) RPAIVQTKADSIRMQLCARLASTPVFTLLIQLLQIDTAGCMEVVRERKSQPPALLQPGTRNTQPHLLQASSNAKNNTG-CLPSMTGEQTAKRASHKGRF
 hs-SNAPC4 (765) RPAIVQTKADGLREQLQCARLASTPVFTLFTQLFHIDTAGCLEVVRERKALPPRLPQAGARDPPVHLLQASSSAQSTPGHLFPNVPAQEASKASHKGRSR
 dr-SNAPC4 (757) ----IFCEGDIVGIKAASIRLQKTSVFTFFIKAFHVDVNGCORTVIEIHKKLDIKMPLAINGNP--KPTPISTSPKTVAVLLQOSKAASEHKKPAEPSQQP

Oct-1 Interacting Domain

(901) 901 910 920 930 940 950 960 970 980 990 1000
 gg-SNAPC4 (687) AIVRSQSASVTSSGSVSGLGAPPVSSGVNMPHPSHAETKTDQPQLAAGSPAGKTAGVSHASVFPVSSADPVCSVSGVSSATSAHSDSSSK----TVSS
 mm-SNAPC4 (846) RLGS CRT EATPFQVPVAAPRGLRPKPKTVSELLREKRLES SHAKKATQALGLN-SQLLVSSPVILQPPLLPVPHGSPVVGPA TS SVELSVFPVAVMVSS
 hs-SNAPC4 (865) RLASSRVERTLPQASLLASTGPRPKPKTVSELLQEKRLQEARAREATRGFPVLP-SQLLVSSSVILQPPLPHTPHGRPPAGPTVLNVPLSGPGAPAAAKPG
 dr-SNAPC4 (851) SLPPSQKPSLPPSVPPSQQPTLPSPSQSQPPPQPPSLPPSQPPAQQP SLPPPQPSLPPPLPPPQPPSLPPQPPSLPTSQQQLPPSQQHS LPPFQNP

(1001) 1001 1010 1020 1030 1040 1050 1060 1070 1080 1090 1100
 gg-SNAPC4 (783) AAHNALPGGAPTLHAQLLP-----QMQLPASTQGS DSRCVTDVVS LGEKQDSSTTNGSSSN SDVLHKGVDVLP
 mm-SNAPC4 (945) PSGSWPVGGISATDKQPPN-----LQTISLNPPHKGTQVAAPAAFRSLALAPGQVPTGGHLS TLGQTSTTSQ-
 hs-SNAPC4 (965) TSGSWQEAGTSAKDKRLST-----MQALPLAPVFSEAEGTAPAASQAPALPGQISVSCPE SGLGQSQAPAAS
 dr-SNAPC4 (951) SLPPSQPSLPPSKQPPQLPVRQITPTPTLIYPNNLVITNPNMEGEVQHLVFKGLLLPQPSKAVSHIPLPVMQPKTPAQPTIVVSKSPSVQDSNSVKS SSK

(1101) 1101 1110 1120 1130 1140 1150 1160 1170 1180 1190 1200
 gg-SNAPC4 (851) RASIPHNSVAGNSEGSADQGLKYRPIAS-----K--P--
 mm-SNAPC4(1012) -KQSLPKVLPILRAAPSLTQLSVQPPVS---GQPLATKSSLPVNWVL-----TTQKLLSVQVPVAVGLPQSVMTTPETI GLQAKQL
 hs-SNAPC4(1033) RKQGLPEAPFPLPAAPSPPTLPVQPLSLTHIGPHVATSVPLPVTWVL-----TAQGLLPVPVAVVSLPRPAGTPGPA GLLATLL
 dr-SNAPC4(1051) RICKPTKKAQALMEQSKVKSRRKEPQKQNGKNVVFPTVTLOTSPVIKILSPARLVQVTGLSPNFSSNQTINMPDKSLTIKSPQPCSSGNLHQSA PVV

(1201) 1201 1210 1220 1230 1240 1250 1260 1270 1280 1290 1300
 gg-SNAPC4 (881) -----PPEQTESAP-----
 mm-SNAPC4(1088) PSPAKTTPAFLE-----QPPASTDTEP-----
 hs-SNAPC4(1114) PPLTETRAAQGPRAPALSSSWQPPANMREPEPSCRTDT PAPPTHALSQSPA EADGSVAFVPGEAQVAREIPEPRITSSHADPPEAEPPWSGRLPAFGGVI
 dr-SNAPC4(1151) HSSINPTFVHSSVSNVSRDNLNVSSITINISPRVSRDALNPTSFLNSTTFPLPQNLSVQQSVQIVPQIPINVVKATCTKAAKTSSDSSSDSVVKQHQLS

(1301) 1301 1310 1320 1330 1340 1350 1360 1370 1380 1390 1400
 gg-SNAPC4 (890) -----PQP-----T
 mm-SNAPC4(1109) -----KGPQGQEIPTPT
 hs-SNAPC4(1214) PATEPRGTGSPSGTQEPGRGLGLEKLPL-----RQPGPEKGALDLEKPPPL
 dr-SNAPC4(1251) PSTGRSIPPAVFNIQPNPSTPPTLSSGPFVIFNPNNKVVPKLCGLNVSSSQLPTVSTQKTKYRPIRPLGPLPVVAPP SRKVTSM SRIRAQSEGEPLISLR

SNAPC2 Interacting domain

(1401) 1401 1410 1420 1430 1440 1450 1460 1470 1480 1490 1500

gg-SNAPC4 (894) TSSA**E**K**T**L**L**D**Y**S**L**I**S**L**E**D**D**E**L**V**K**E**L**S**G**K**G**Q**G**V**Q**V**P**P**L**Q**T**R**L**P**Y**F**P**P**F**L**C**N**L**K**T**L**S**K**L**L**L**Q**K**A**A**L**E**K**Q**A**A**R**F**L**S**P**D**G**S**Q**T**E**G**--E**V**D**L**N**A**I**T**K**I**V**H**E**K**L**G**

mm-SNAPC4(1121) --**G**P**E**K**A**A**L**D**L**S**L**S**Q**E**S**E**A**A**I**V**T**W**L**K**G**C**Q**G**A**F**V**P**L**G**S**R**M**P**Y**H**P**P**S**L**C**S**L**R**A**L**S**S**L**L**L**Q**K**Q**D**L**E**Q**K**A**S**S**L**A**A**S**Q**A**A**G**A**Q**P**D**P**K**A**G**A**L**Q**A**S**L**E**L**V**Q**R**Q**F**R

hs-SNAPC4(1261) Q**P****G**P**E**K**G**A**L**D**L**G**L**S**Q**E**G**E**A**A**T**Q**Q**W**L**G**G**Q**R**G**V**R**V**P**L**G**S**R**L**P**Y**Q**P**P**A**L**C**S**L**R**A**L**S**G**L**L**L**H**K**K**A**L**E**H**K**A**T**S**L**V**V**G**G**E**A**E**R**P---A**G**A**L**Q**A**S**L**G**L**V**R**G**Q**L**Q**

dr-SNAPC4(1351) D**L**P**A**A**G**V**N**F**D**S**H**L**I**F**P**E**K**S**S**E**V**D**D**W**M**D**G**K**G**I**P**L**P**H**L**D**T**S**L**P**Y**L**P**P**S**A**A**T**I**K**T**M**T**D**L**L**R**A**K**Q**P**L**L**L**A**A**K**K**V**L**P**A**Q**Y**Q**D**E**C**N**E--E**V**E**V**E**A**I**R**K**V**V**A**E**R**F**A**

(1501) 1501 1510 1520 1530 1540 1550 1560 1570 1580 1590 1600

gg-SNAPC4 (991) **D**D**P**A**F**L**L**L**K**A**R**F**L**A**A**F**T**L**P**A**V**L**A**T**L**P**P**P**K**V**A**T**T**L**S**A**S**K**R**E**Y**G**E**S**D**E**E**W**Q**S**E**E**E**A**S**E**D**E**S**C**G**D**E**L**D**A**P**S**D**E**T**G**G**D**E**P**G**D**R**D**A**D**F**P**S**K**G**M**E**T**E**D**S**A**A**Q**S**I**V**

mm-SNAPC4(1219) **D**N**P**A**Y**L**L**L**K**T**R**F**L**A**I**F**S**L**P**A**F**L**A**T**L**P**P**S**I**P**T**T**L**S**P**D**V**A**V**S**E**S--**D**S**E**D**L**G**D**L**E**L**K**D**R**A**R**Q**L**D**C**M**A**C**R**V**Q**A**S**P**A**P**D**P**V**Q**R**A**P**S**P**G-----E**V**S**A**P**S**P**L**D

hs-SNAPC4(1357) **D**N**P**A**Y**L**L**L**R**A**R**F**L**A**A**F**T**L**P**A**L**L**A**T**L**A**P**Q**G**V**R**T**T**L**S**V**P**S**R**V**G**S**E**S**E**D**E**D**L**L**S**E**L**E**L**A**D**R**D**G**Q**P-----G**C**T**T**A**T**C**P**I**Q**A**P**D**S**G-----K**C**S**A**S**S**C**L**D

dr-SNAPC4(1449) **S**N**P**A**Y**L**L**L**K**A**R**F**L**S**C**F**T**L**P**A**L**L**A**T**I**N**P**C**E**E**R**Q**L**L**S**E**D**E**E**D**D**H**L**A**T**I**N**P**S**E**H**Q**S**T**E**D**D**E**E**D**L**Q**T**N**E**R**S**Q**P**P**T**A**R**T**E**L**N**M**N**E**N**E**A**-----

(1601) 1601 1610 1629

gg-SNAPC4(1091) G**T**C**T**D**G**T**A**S**V**P**Q**I**R**R**S**V**R**I**R**K**R**F**T**K**R**R**R**V

mm-SNAPC4(1313) A**S**D**G**L**D**D**L**N**V**L**R**T**R**R**A**R**H**S**R**R-----

hs-SNAPC4(1444) T**S**N**D**P**D**D**L**D**V**L**R**T**R**H**A**R**H**T**R**K**R**R**R**L**V**---

dr-SNAPC4(1535) -**S**A**K**Q**F**S**G**I**G**P**K**R**Q**R**N**Q**R**T**K**R**L**I**K**-----