

Cell, Volume 172

Supplemental Information

**Structure and Conformational Dynamics
of the Human Spliceosomal B^{act} Complex**

David Haselbach, Ilya Komarov, Dmitry E. Agafonov, Klaus Hartmuth, Benjamin Graf, Olexandr Dybkov, Henning Urlaub, Berthold Kastner, Reinhard Lührmann, and Holger Stark

Name (comment)	Chain ID	sequence
PRP8	A	10 20 30 40 50 MAGVFPYRGP GNPVPGPLAP LPDYMSEEKL QEKARKWQQL QAKRYAEKRRK
		60 70 80 90 100 FGFVDAQKED MPPEHVRKII RDHGDMTNRK FRHDKRVYLG ALKYMPHAVAL
		110 120 130 140 150 KLEENMPMPW EQIRDVPVLY HITGAISFVN EIPWVIEPVY ISQWGSWMIM
		160 170 180 190 200 MRREKRDRRH FKRMRFPFFD DEEPPLDYAD NILDVEPLEA IQLELDPEED
		210 220 230 240 250 APVLDWFYDH QPLRDSRKYV NGSTYQRWQF TLPMMSTLYR LANQLLTDLV
		260 270 280 290 300 DDNYFYLFDL KAFFTSKALN MAIPGGPKFE PLVRDINLQD EDWNEFNIN
		310 320 330 340 350 KIIIRQPIRT EYKIAFPYLY NNLPHHVHLT WYHTPNVVEI KTEDPDLPAF
		360 370 380 390 400 YFDPLINPIS HRHSVKSOEP LPDDDEEFEL PEVEVPFLKD TPLYTDNTAN
		410 420 430 440 450 GIALWAPRP FNLRSRTRR ALDIPLVKNW YREHCPAGQP VKVRVSYQKL
		460 470 480 490 500 LKYYVLNALK HRPPKAQKKR YLFRSFKATK FFQSTKLDWV EVGLQVCRQG
		510 520 530 540 550 YNMLNLLIHR KNLNYLHLDY NFNLPVKTL TTKERKKSFR GNAFHLCREV
		560 570 580 590 600 LRLTKLVVDS HVQYRLGNVD AFQLADGLQY IFAHVGQLTG MYRYKYKLMR
		610 620 630 640 650 QIRMCKDLKH LIYYRFNTGP VGKGP GCGFW AAGWRVWLFF MRGITPLLER
		660 670 680 690 700 WLGNLLARQF EGRHSGVAK TVTKQRVESH FDLELRAAVM HDILDMMPEG
		710 720 730 740 750 IKQNKARTIL QHLSEAWRCW KANIPWKVPG LPTPIENMIL RYVAKADWW
		760 770 780 790 800 TNTAHYNRER IRRGATVDKT VCKKNLGRIT RLYLKAEQER QHNYLKDGPY
		810 820 830 840 850 ITAEAVAVY TTVVHWLESR RFSPPIFPPL SYKHDTKLLI LALERLKEAY
		860 870 880 890 900 SVKSRLNQSQ REELGLIEQA YDNPHEALS IKRHLLTQRA FKEVGIEFMD
		910 920 930 940 950 LYSHLVPVYD VEPLEKITDA YLDQYLWYEA DKRRLFPPWI KPADTEPPPL
		960 970 980 990 1000 LVYKWCQGIN NLQDVWETSE GECVMLESR FEKMYEKIDL TLLNRLRLI
1010 1020 1030 1040 1050 VDHNIADYMT AKNNVVINYK DMNHTNSYGI IRGLQFASFI VQYYGLVMDL		
1060 1070 1080 1090 1100		

LVLGLHRASE	MAGPPQMPND	FLSFQDIATE	AAHPIRLFCR	YIDRIHIFFR
1110	1120	1130	1140	1150
FTADEARDLI	QRYLTEHP	DP	NNENIVGYNN	KKCWPRDARM
1160	1170	1180	1190	1200
RAVFWDIKNR	LPRSVTTVQW	ENSFVSVYSK	DNPNLLFNC	GFECRILPKC
1210	1220	1230	1240	1250
RTSYEEFTHK	DGVWNLQNEV	TKERTAQCFL	RVDDESMQRF	HNRVRQILMA
1260	1270	1280	1290	1300
SGSTTFTKIV	NKWNTALIGL	MTYFREAVVN	TOELLDLLVK	CENKIOTRIK
1310	1320	1330	1340	1350
IGLNSKMPSR	FPPVVFYTPK	ELGGLGMLSM	GHVLIPOSDL	RWSKQTDVGI
1360	1370	1380	1390	1400
THFRSGMSHE	EDQLIPNLYR	YIQPWESEFI	DSQRVWAEYA	LKRQEAIQON
1410	1420	1430	1440	1450
RRLTLEDLED	SWDRGIPRIN	TLFQKDRHTL	AYDKGWRVRT	DFKQYQVLKQ
1460	1470	1480	1490	1500
NPFWWTHQRH	DGKLWNLNNY	RTDMIQALGG	VEGILEHTLF	KGTYFPTWEG
1510	1520	1530	1540	1550
LFE	KASGFE	ESMKW	KKLTN	AQRSGLNQIP
1560	1570	1580	1590	1600
FQVQLDLTGI	FMHGKIPTLK	ISLIQIFRAH	LWQKIHESIV	MDLCQVFDQE
1610	1620	1630	1640	1650
LDALIEIVQ	KETIHPRKSY	KMNSSCADIL	LFASYKWNVS	RPSLLADSKD
1660	1670	1680	1690	1700
VMDS	TTTQKY	WIDIQLRWGD	YDSHDIERYA	RAKFLDYTTD
1710	1720	1730	1740	1750
VLIAIDLAYN	LHSAYGNWFP	GSKPLIQQAM	AKIMKANPAL	YVLRERIRKG
1760	1770	1780	1790	1800
LQLYSSEPTE	PYLSSQNYGE	LFSNQIWFV	DDTNVY	RVTI
1810	1820	1830	1840	1850
KPINGAIFIF	NPRTCQLFLK	IIHTSV	WAGQ	KRLGQLAKWK
1860	1870	1880	1890	1900
SLPVEEQPKQ	IIVT	RKGMLD	PLEVHLL	DFP
1910	1920	1930	1940	1950
KFGDLILKAT	EPQMVLFNLY	DDWLKTISSY	TAFSRLILIL	RALHVNNDR
1960	1970	1980	1990	2000
KVILKPKDKT	ITEPHHIWPT	LTDEEWIKVE	VQLKDLILAD	YGKKNVNVA
2010	2020	2030	2040	2050
SLTQSEIRDI	ILGME	ISAPS	QQRQIAEIE	KQTKEQSOLT
2060	2070	2080	2090	2100
GDEIITSTTS	NYETQTFSSK	TEWRVRAISA	ANLHLRTNHI	YVSSDDIKET
2110	2120	2130	2140	2150
GYTYILPKNV	LKKFICISDL	RAQIAGYLYG	VSPDPNPQVK	EIRCIVMVPQ
2160	2170	2180	2190	2200
WGTHQTVHLP	GQLPQHEYLK	EMEPLGWIHT	QPNEPQLSP	QDVTTHAKIM
2210	2220	2230	2240	2250
ADNPSWDGEK	TIIITCSFTP	GSCTLTAYKL	TPSGYEWGRQ	NTDKGNPKG

		<p>2260 2270 2280 2290 2300</p> <p>YLP SHYERVQ MLLSDRFLGF FMVPAQSSWN YNFMGVRHDP NMKYELQLAN</p> <p>2310 2320 2330</p> <p>PKEFYHEVHR PSHFLNFALL QEGEVYSADR EDLYA</p>
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hSnu114	B	<p>10 20 30 40 50</p> <p>MDTDLYDEFG NYIGPELSD EDDDELGRET KLDDEMDDDD DDDVGDHDD</p> <p>60 70 80 90 100</p> <p>DHPGM EVVLH EDKKYYPTAE EVYGPEVETI VQEEDTQPLT EPIIKPVKTK</p> <p>110 120 130 140 150</p> <p>KFTLMEQTLP VTVYEMDFLA DLMNSELR NVTLCGHLHH GKTCFVDCLI</p> <p>160 170 180 190 200</p> <p>EQTHPEIRKR YDQDLCYT DI LFTEQERGVG IKSTPVTVVL PDKGKSYLF</p> <p>210 220 230 240 250</p> <p>NIMDTPGHVN FSDEVTAGLR ISDGVVLFID AEGVMLNTE RLIKHAVQER</p>
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		260	270	280	290	300
		LAVTVCINKI	DRLILELKLPTDAYYKLRH	IVDEVNGLIS	MYSTDENLIL	
		310	320	330	340	350
		SPLLGNCVCS	SSQYSICFTLGSFAKIYADT	FGDINYQEF	AKRLWGDIIYFN	
		360	370	380	390	400
		PKTRKFTKKA	PTSSSQRSFV	EFILEPLYKI	LAQVVGDVDT	SLPRTLDELG
		410	420	430	440	450
		IHLTKEELKL	NIRPLRLVCKKFFGEFTGF	VDMCVQHIPS	PKVGA	PKPIE
		460	470	480	490	500
		HTYTG	GGVDSDLGEAMSDCDP	DGPLMCHTTK	MYSTDDGVQF	HAFGRVLSGT
		510	520	530	540	550
		IHAGQPVKVL	GENYTL	EEEDSQICTVGRL	WISVARYHIE	VNRVPAGN
		560	570	580	590	600
		LIEGVDQPIV	KTATITEPRG	NEEAQIFRPL	KFN	TTSVIKIAVEPVNPSEL
		610	620	630	640	650
		PKMLDGLRKV	NKSYPSLTTK	VEESGEHVIL	GTGELYLDCV	MHDLRKM
		660	670	680	690	700
		IDIKVADPVV	TFCETVVETS	SLKCF	FAETPNKKNKITMIAE	PLEKGLAEDI
		710	720	730	740	750
		ENEVVQITWN	RKKLG	EFFQTKYDWDLAAR	SIWAFGPDAT	GPNILVDDTL
		760	770	780	790	800
		PSEVDKALLG	SVKDSIVQGF	QWGTREGPLC	DELIRNVKFK	ILDAVVAQEP
		810	820	830	840	850
		LHRGGGQIIP	TARRVVYSAF	LMATPRLMEP	YYFVEVQAPA	DCVSAVYTVL
		860	870	880	890	900
		ARRRGHVTQD	APIPGSPLYT	IKAFIPAIDS	FGFETDLRTH	TQQQAFSLSV
		910	920	930	940	950
		FHHW	QIVPGDPLDKSIVIRP	LEPQPAPHLA	REFMIKTRRR	KGLSE
		960	970			
		KFFDD	PMLLE	LAKQDVVLNY	PM	

SKIP/hPrp45	C	10	20	30	40	50
		MALTSFLPAP	TQLSQDQLEA	EEKARSQRSR	QTSLVSSRRE	PPPYGYRKGW
		60	70	80	90	100
		IPRLLEDFGD	GGAFPEIHVA	QYPLDMGRKK	KMSNALAIQV	DSEGKIKYDA
		110	120	130	140	150
		IARQGQSKDK	VIYSKYTDLV	PKEVMNADDP	DLQRPDEEAI	KEITEKTRVA
		160	170	180	190	200
		LEKSV	SQVA	AAMPVRAADK	LAPAQYIRYT	PSQQGVAFNS
		210	220	230	240	250
		EMQKDPMEFP	RFKINKKIPR	GPPSPPAPVM	HSPSRKMTVK	EQQEWKIPPC
		260	270	280	290	300

		<p>ISNWKNAKGY TIPLDKRLAA DGRGLQTVHI NENFAKLAEA LYIADRKARE</p> <p>310 320 330 340 350</p> <p>AVEMRAQVER KMAQKEKEKH EEK LREMAQK ARERRAGIKT HVEKEDGEAR</p> <p>360 370 380 390 400</p> <p>ERDEIRHRR KERQHDRNLS RAAPDKRSKL QRNENRDISE VIALGVPNPR</p> <p>410 420 430 440 450</p> <p>TSNEVQYDQR LFNQSKGMDS GFAGGEDEIY NVYDQAWRGG KDMAQSIYRP</p> <p>460 470 480 490 500</p> <p>SKNLDKMYG DDLEARIKTN RFVPDKFSG SDRRQRGREG PVQFEEDPFG</p> <p>510 520 530</p> <p>LDKFLEEAKQ HGGSKRPSDS SRPKEHEHEG KRRRKE</p>
PLRG1/hPrp46	D	<p>10 20 30 40 50</p> <p>MVEEVQKHSV HTLVFRSLKR THDMFVADNG KPVPLDEESH KRKMAIKLRN</p> <p>60 70 80 90 100</p> <p>EYGPVLHMPT SKENLKEKGP QNATDSYVHK QYPANQGQEV EYFVAGTHPY</p> <p>110 120 130 140 150</p> <p>PPGPGVALTA DTKIQRMPSE SAAQSLAVAL PLQTKADANR TAPSGSEYRH</p> <p>160 170 180 190 200</p> <p>PGASDRPQPT AMNSIVMETG NTKNSALMAK KAPTMPKPQW HPPWKLYRVI</p> <p>210 220 230 240 250</p> <p>SGHLGWVRCI AVEPGNQWFV TGSADRTIKI WDLASGKCLKL SLTGHIHSTVR</p> <p>260 270 280 290 300</p> <p>GVIIVSTRSPY LFSCGEDKQV KCWDLEYNKV IRHYHGHLA VYGLDLHPTI</p> <p>310 320 330 340 350</p> <p>DVLVTCRDS TARIWDVVRTK ASVHTLSGHT NAVATVRCQA AEPQIITGSH</p> <p>360 370 380 390 400</p> <p>DTTIRLWDLV AGKTRVTLTN HKKSVRAVVL HPRHYTFASG SPDNIKQWKF</p> <p>410 420 430 440 450</p> <p>PDGSFIQNLS GHNAIINTLT VNSDGVLVSG ADNGTMHLWD WRTGYNFQRV</p> <p>460 470 480 490 500</p> <p>HAAVQPGSLD SESGIFACAF DQSESRLTA EADKTIKIVYR EDDTATEETH</p> <p>510</p> <p>PVSWKPEIIK RKRF</p>
	E	<p>10 20 30 40 50</p> <p>MSAAIAALAA SYGSGSGSES DSDSESSRCP LPAADSLMHL TKSPSSKPSL</p>

PRP19 mol. 1	G	<pre> 10 20 30 40 50 MSLICISISNE VPEHPCVSPV SNHVYERRLI EKYIAENGTD PINNQPLSEE 60 70 80 90 100 QLIDIKVAHP IRPKPPSATS IPAILKALQD EWDVAVMLHSF TLRQQLQTRR 110 120 130 140 150 QELSHALYQH DAACRVIARL TKEVTAAREA LATLKPOAGL IVPQAVPSSQ 160 170 180 190 200 PSVVGAGEPM DLGELVGMTP EIIQKLQDKA TVLTTERKKR GKTVPEELVK 210 220 230 240 250 PEELSKYRQV ASHVGLHSAS IPGILALDLC PSDTNKILTG GADKNVVVFD 260 270 280 290 300 KSSEQILATL KGHTKKVTSV VFHPSQDLVF SASPDATIRI WSPVNASCVQ 310 320 330 340 350 VVRAHESAVT GLSLHATGDY LLSSSDQYW AFSDIQTGRV LTKVTDETSG 360 370 380 390 400 CSLTCAQFHP DGLIFGTGTM DSQIKIWDLK ERTNVANFPG HSGPITSIAF 410 420 430 440 450 SENGYYLATA ADDSSVKLWD LRKLKNFKTL QLDNNFEVKS LIFDQSGTYL 460 470 480 490 500 ALGGTDVQIY ICKQWTEILH FTEHSGLTG VAFGHHAKFI ASTGMDRSLK FYSL </pre>
PRP19 mol. 2	H	<pre> 10 20 30 40 50 MSLICISISNE VPEHPCVSPV SNHVYERRLI EKYIAENGTD PINNQPLSEE 60 70 80 90 100 QLIDIKVAHP IRPKPPSATS IPAILKALQD EWDVAVMLHSF TLRQQLQTRR 110 120 130 140 150 QELSHALYQH DAACRVIARL TKEVTAAREA LATLKPOAGL IVPQAVPSSQ 160 170 180 190 200 PSVVGAGEPM DLGELVGMTP EIIQKLQDKA TVLTTERKKR GKTVPEELVK 210 220 230 240 250 PEELSKYRQV ASHVGLHSAS IPGILALDLC PSDTNKILTG GADKNVVVFD 260 270 280 290 300 KSSEQILATL KGHTKKVTSV VFHPSQDLVF SASPDATIRI WSPVNASCVQ 310 320 330 340 350 </pre>

		<p>VVRAHESAVT GLSLHATGDY LLSSSDQYW AFSDIQTGRV LTKVTDETSG 360 370 380 390 400 CSLTCAQFHP DGLIFGTGTM DSQIKIWDLK ERTNVANFPG HSGPITSIAF 410 420 430 440 450 SENGYYLATA ADDSSVKLWD LRKLNFKTL QLDNNFEVKS LIFDQSGTYL 460 470 480 490 500 ALGGTDVQIY ICKQWTEILH FTEHSGLTG VAFGHHAKFI ASTGMDRSLK</p> <p>FYSL</p>
PRP19 mol. 3	I	<p>10 20 30 40 50 MSLICISNE VPEHPCVSPV SNHVYERRLI EKYIAENGTD PINNQPLSEE 60 70 80 90 100 QLIDIKVAHP IRPKPPSATS IPAILKALQD EWDVAVMLHSF TLRQQLQTR 110 120 130 140 150 QELSHALYQH DAACRVIARL TKEVTAAREA LATLKPOAGL IVPQAVPSSQ 160 170 180 190 200 PSVVGAGEPM DLGELVGMTP EIIQKLQDKA TVLTTERKKR GKTVPPEELVK 210 220 230 240 250 PEELSKYRQV ASHVGLHSAS IPGILALDLC PSDTNKILTG GADKNVVVFD 260 270 280 290 300 KSSEQILATL KGHTKKVTSV VFHPSQDLVF SASPDATIRI WSVPNASCVQ 310 320 330 340 350 VVRAHESAVT GLSLHATGDY LLSSSDQYW AFSDIQTGRV LTKVTDETSG 360 370 380 390 400 CSLTCAQFHP DGLIFGTGTM DSQIKIWDLK ERTNVANFPG HSGPITSIAF 410 420 430 440 450 SENGYYLATA ADDSSVKLWD LRKLNFKTL QLDNNFEVKS LIFDQSGTYL 460 470 480 490 500 ALGGTDVQIY ICKQWTEILH FTEHSGLTG VAFGHHAKFI ASTGMDRSLK</p> <p>FYSL</p>
PRP19 mol. 4	J	<p>10 20 30 40 50 MSLICISNE VPEHPCVSPV SNHVYERRLI EKYIAENGTD PINNQPLSEE 60 70 80 90 100 QLIDIKVAHP IRPKPPSATS IPAILKALQD EWDVAVMLHSF TLRQQLQTR</p>

		<p>110 120 130 140 150</p> <p>QELSHALYQH DAACRVIARL TKEVTAAREA LATLKPQAGL IVPQAVPSSQ</p> <p>160 170 180 190 200</p> <p>PSVVGAGEPM DLGELVGMTP EIIQKLQDKA TVLTTERKKR GKTVPEELVK</p> <p>210 220 230 240 250</p> <p>PEELSKYRQV ASHVGLHSAS IPGILALDLC PSDTNKILTG GADKNVVVFD</p> <p>260 270 280 290 300</p> <p>KSSEQILATL KGHTKKVTSV VFHPSQDLVF SASPDATIRI WSVPNASCQVQ</p> <p>310 320 330 340 350</p> <p>VVRAHESAVT GLSLHATGDY LLSSSDQYW AFSDIQTRV LTKVTDETSQ</p> <p>360 370 380 390 400</p> <p>CSLTCAQFHP DGLIFGTGM DSQIKIWDLK ERTNVANFPG HSGPITSIAF</p> <p>410 420 430 440 450</p> <p>SENGYYLATA ADDSSVKLWD LRKLNFKTL QLDNNFEVKS LIFDQSGTYL</p> <p>460 470 480 490 500</p> <p>ALGGTDVQIY ICKQWTEILH FTEHSGLTG VAFGHAKFI ASTGMDRSLK</p> <p>FYSL</p>
SPF27	K	<p>10 20 30 40 50</p> <p>MAGTGLVAGE VVVDALPYFD QGYEAPGVRE AAAALVEEET RRYRPTKNYL</p> <p>60 70 80 90 100</p> <p>SYLTAPDYSA FETDIMRNEF ERLAARQPIE LLSMKRYELP APSSGQKNDI</p> <p>110 120 130 140 150</p> <p>TAWQECVNS MAQLEHQAVR IENLELMSQH GCNAWKVYNE NLVHMIEHAQ</p> <p>160 170 180 190 200</p> <p>KELQKLRKHI QDLNWORKNM QLTAGSKLRE MESNWWVSLVS KNYEIERIV</p> <p>210 220</p> <p>QLENEIYQIK QQHGEANKEN IRQDF</p>
CDC5L	L	<p>10 20 30 40 50</p> <p>MPRIMIKGGV WRNTEDEILK AAVMKYGNQ WSRIASLLHR KSAKQCKARW</p> <p>60 70 80 90 100</p> <p>YEWLDPSIKK TEWSREEEEEK LLHLAKLMPT QWRTIPIIG RTAAQCLEHY</p> <p>110 120 130 140 150</p> <p>EFLLDKAAQR DNEEETDDP RKLKPGEIDP NPETKPARPD PIDMDEDELE</p> <p>160 170 180 190 200</p>

		MLSEARARLA NTQGKKAKRK AREKQLEEAR RLAALQKRRE LRAAGIEIQK 210 220 230 240 250
		KRKRKRGVDY NAEIPFEKKP ALGFYDTSEE NYQALDADFR KLRQQDLGDGE 260 270 280 290 300
		LRSEKEGRDR KKDKQHLKRR KESDLPSAIL QTSGVSEFTK KRSKLVLPAP 310 320 330 340 350
		QISDAELQEV VKVGQASEIA RQTAEESGIT NSASSTLLSE YNVTNNSVAL 360 370 380 390 400
		RTPRTPASQD RILQEAQNLM ALTNVDTPLK GGLNTPLHES DFSGVTPQRQ 410 420 430 440 450
		VVQTPNTVLS TPFRTPSNGA EGLTPRSITT PKPVINSTPG RTPLRDKLNI 460 470 480 490 500
		NPEDGMADYS DPSYVKQMER ESREHLRLGL LGLPAPKNDF EIVLPENAEK 510 520 530 540 550
		ELEEREIDDT YIEDAADVDA RKQAIRDAER VKEMKRMHKA VQKDLPRPSE 560 570 580 590 600
		VNETILRPLN VEPPLTDLQK SEELIKKEMI TMLHYDLLHH PYEPSGNKKG 610 620 630 640 650
		KTVGFGTNNS EHITYLEHNP YEKFSKEELK KAQDVLVQEM EVVKQGMESHG 660 670 680 690 700
		ELSSEAYNQV WEECYQVLY LPGQSRYTRA NLASKKDRIE SLEKRLEINR 710 720 730 740 750
		GHMTTEAKRA AKMEKKMKIL LGGYQSRAMG LMKQLNDLWD QIEQAHLELR 760 770 780 790 800
		TFEELKKHED SAIPRRLECL KEDVQRQQR EKELQHRYAD LLEKETLKS
		KF

SYF1/Xab2	M	10 20 30 40 50 MVMARLSRP ERPDLVFEEE DLPYEEEIMR NQFSVKCWL R YIEFKQGAPK 60 70 80 90 100 PRLNQLYERA LKLLPCSYKL WYRYLKARRA QVKHRCVTDP AYEDVNNCHE 110 120 130 140 150 RAFVFMHKMP RLWLDYCQFL MDQGRVTHTR RTFDRALRAL PITQHSRIWP 160 170 180 190 200 LYLRFILRSHP LPETAVERGYR RFLKLSPEA EEYIEYLYKSS DRLEDEAAQRI 210 220 230 240 250 ATVVNDERFV SKAGKSNYQL WHELCDLISQ NPKVQSLNV DAIIRGGLTR 260 270 280 290 300 FTDQLGKLWC SLADYYIRSG HFEKARDVYE EAIRTVMTVR DFTQVFDSYA 310 320 330 340 350 QFEESMIAAK METASELGRE EEDVDLELR LARFEQLISR RPLLLNSVLL
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		360	370	380	390	400
		RQNP HHVHEW HKRVALHQGR PREIINTYTE AVQTVDPFKA TGKPHTLWVA				
		410	420	430	440	450
		FAKFYEDNGQ LDDARVILEK ATKVNFQVD DLASVWCQCG ELELRHENYD				
		460	470	480	490	500
		EALRLLRKAT ALPARRAEYF DGSEPVQNRV YKSLKVWSML ADLEESLGTG				
		510	520	530	540	550
		QSTKAVYDRI LDLRIATPQI VINYAMFLEE HKYFEESFKA YERGISLFW				
		560	570	580	590	600
		PNVSDIWSY LTKFIARYGG RKLERARDLF EQALDGCPPK YAKTLYLLYA				
		610	620	630	640	650
		QLEEEWGLAR HAMAVYERAT RAVEPAQQYD MFNIYIKRAA EIYGVTHTRG				
		660	670	680	690	700
		IYQKAIEVLS DEHAREMCLR FADMECKLGE IDRARAIYSF CSQICDPRTT				
		710	720	730	740	750
		GAFWQWTKDF EVRHGNETI KEMLRIRRSV QATYNTQVNF MASQMLKVS				
		760	770	780	790	800
		SATGTVSDLA PGQSGMDDMK LLEQRAEQLA AEAERDQPLR AQSILFVRS				
		810	820	830	840	850
		DASREELAEAL AQOVNPEEIQ LGEDEDEDEM DLEPNEVRLE QQSVPAAVFG				
		SLKED				

SYF3/CRNKL1	O	10	20	30	40	50
		MTATVENLTF QKDTLGNVD KNTSRLELRS YSLAGRHGST EPLVLAWSSQ				
		60	70	80	90	100
		FRRLTWGCAL DALHRSPCVA ASQHGVTSLI RSSRTPHSTR CRKEDAQPGH				
		110	120	130	140	150
		HGNGAASVTA QARGQSVLQ VPLPVPRSL FSESFVVSVS SQRFLASVP				
		160	170	180	190	200
		GTGVQRSTAA DMAASTAAGK QRIPKVAKVK NKAPAEVQIT AEQLLREAKE				
		210	220	230	240	250
		RELELLPPP QOKITDEEEL NDYKLRKRKT FEDNIRKNRT VISNWIYAO				
		260	270	280	290	300
		WEESLKEIQR ARSIYERALD VDYRNITLWL KYAEMEMKNR QVNHARNIWD				
		310	320	330	340	350
		RAITTLPRVN GFWYKYTYME EMLGNVAGAR QVFERWMEWQ PEEQAWHSYI				
		360	370	380	390	400
		NFELRYKEVD RARTIYERFV LVHPDVKNWI KYARFEEKHA YFAHARKVYE				
		410	420	430	440	450
		RAVEFFGDEH MDEHLYVAFA KFEENQKEFE RVRVIYKYAL DRISKQDAQE				
		460	470	480	490	500

		LFKNYTIFEK KFGDRRGIED IIVSKRRFQY EEEVKANPHN YDAWFDYLRL 510 520 530 540 550
		VESDAEAEAV REYERAIAAN VPPIQEKRW KRYIYLWINY ALYEELEAKD 560 570 580 590 600
		PERTROVYQA SLELIPHKKF TFAKMWILYA QFEIRQKNLS LARRALGTST 610 620 630 640 650
		GKCPKNKLFK VYIELELQLR EFDRCRCLYE KFLEFGPENC TSWIKFAELE 660 670 680 690 700
		TILGDIDRAR AIYELAISQP RLDMPEVLWK SYIDFEIEQE ETERTNLYR 710 720 730 740 750
		RLLQRTQHVK VWISFAQFEL SSGKEGSLTK CROIYEEANK TMRNCEEKEE 760 770 780 790 800
		RLMLLESWRS FEEFEGTASD KERVDKLMPE KVKKRRKVQT DDGSDAGWEE 810 820 830 840
		YFDYIFPEDA ANQPNLKLLA MAKLWKKQQQ EKEDAHHHPD EDVDESES

RBM22	P	10 20 Zn 30 40 50 MATSLSGNTY NRQN WEDADF PILCQTCLGE NPYIRMTKEK YGKECKICAR 60 70 80 Zn 90 100 PFTVFRWCPG VRMRFKKTEV CQTC SKLKNV CQTC LL DLEY GLPIQVRDAG 110 120 130 140 150 LSFKDDMPKS DVNKEYY TQN MEREISNSDG TRPVGMLGKA TSTSDMLLKL 160 170 Zn 180 190 200 ARTT PYYKRN RPHICSFVVK GECKRGEECP YRHE KPTDPD DPLADQNIKD 210 220 230 240 250 RYYGINDPVA DKLLKRASTM PRLDPEDKT ITTLYVGGLG DTITETDLRN 260 270 280 290 300 HFYQFGEIRT ITVVQROOCA FIQFATROAA EVAAEKSEFNK LIVNGRRLNV 310 320 330 340 350 KWGRSQAARG KEKEKDGTTD SGIKLEPVPK LPGALPPPPA AEEEEASANYF 360 370 380 390 400 NLPPSGPPAV VNIALPPPPG IAPPPPPGFG PHMFHPMGPP PPFMRAPGPI 410 420 HYP SQDPQRM GAHAGKHSSP
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BUD31	Q	10 20 30 40 50 MP KVKRSRKA PPDGWELIEP TLDEL DQKMR EAETEPHEGK RKVESLWPIE
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Zn

Zn

		<p>60 70 80 90 100</p> <p>RIHHQKTRYI FDLFYKRKAI SRELYEYCIK EGYADKNLIA KWKKQGYENL</p> <p>110 120 130 140</p> <p>CCLRCIQTRD TNFGTNCICR VPKSKLEVGR IIECTHCGCR CSG</p>
CWC15/Ad002	R	<p>10 20 30 40 50</p> <p>MTTAARPTFE PARGGRGKGE GDLSQLSKQY SSRDLPSHTK IKYRQTTQDA</p> <p>60 70 80 90 100</p> <p>PEEVRNRDFR RELEERERAA AREKNRDRPT REHTTSSSVS KKPRLDQIPA</p> <p>110 120 130 140 150</p> <p>ANLDADDPLT DEEDEDFFEEE SDDDDTAALL AELEKIKKER AEEQARKEQE</p> <p>160 170 180 190 200</p> <p>QKAEERIRM ENILSGNPLL NLTGPSQPQA NFKVKRRWDD DVVFKNCAKG</p> <p>210 220</p> <p>VDDQKKDKRF VNDTLRSEFH KKFMEKYIK</p>
SRRM2/hCwc21 /SRM300	S	<p>10 20 30 40 50</p> <p>MYNGIGLPTP RSGGTNGYVQ RNLSLVGRGR GERFDYKGEE ELRRLEAALV</p> <p>60 70 80 90 100</p> <p>KRPNPDILDH ERKRRVELRC LELEEMMEEQ GYEEQQIQEK VATFRLMLLE</p> <p>110 120 130 140 150</p> <p>KDVNPGGKEE TPGQRPVAVTE THQLAELNEK KNERLRRAAFG ISDSYVDGSS</p> <p>160 170 180 190 200</p> <p>FDPQRRAREA KQPAPEPPKP YSLVRESSSS RSPTPKQKKK KKKKDRGRRS</p> <p>210 220 230 240 250</p> <p>ESSSPRRERK KSSKKKKHRS ESESKKRKHR SPTPKSKRKS KDKKRKRSRS</p> <p>260 270 280 290 300</p> <p>TTPAPKSRRA HRSTSADSAS SSDTSRSRSR SAAAKHTHTTA LAGRSPSPAS</p> <p>310 320 330 340 350</p> <p>GRRGEGDAPF SEP GTTSTQR PSSPETATKQ PSSPYEDKDK DKKEKSATRP</p> <p>360 370 380 390 400</p> <p>SPSPERSSTG PEPPAPTPLL AERHGGSPQP LATTPLSQEP VNPPSEASPT</p> <p>410 420 430 440 450</p> <p>RDRSPPKSPE KLPQSSSES SPPSPQPTKV SRHASSSPES PKPAPAPGSH</p> <p>460 470 480 490 500</p> <p>REISSSPTSK NRSHGRAKRD KSHSHTPSRR MGRSRSPATA KRGRSRSRTP</p> <p>510 520 530 540 550</p>

	TKRGHSRSRS	PQWRRSRSAQ	RWGRSRSPQR	RGRSRSPQRP	GWSRSRNTQR
	560	570	580	590	600
	RGRSRSAARRG	RSHSRSPATR	GRSRSRTPAR	RGRSRSRTPA	RRRSRRTPT
	610	620	630	640	650
	RRRSRRTPTA	RRGRSRSRTP	ARRRSRTRSP	VRRRSRSP	ARRSGRSRSR
	660	670	680	690	700
	TPARRGRSRS	RTPARRGRSR	SRTPARRSGR	SRSRTPARRG	RSRSRTPRRG
	710	720	730	740	750
	RSRSRSLVRR	GRSHSRTPQR	RGRSGSSSER	KNKSRTSQRR	SRSNSSPEMK
	760	770	780	790	800
	KSRISRRSR	SLSSPRSKAK	SRLSLRRSL	GSSPCPKQKS	QTPRRSRSG
	810	820	830	840	850
	SSQPKAKSRT	PPRRSRSSSS	PPPQKSKTP	SRQSHSSSSP	HPKVKSGTPP
	860	870	880	890	900
	RQGSITSPQA	NEQSVTPQRR	SCFESSPDPE	LKSRTPSRHS	CSGSSPPRVK
	910	920	930	940	950
	SSTPPRQSPS	RSSSPQPKVK	AIISPRQRSH	SGSSSPSPSR	VTSRTTPRRS
	960	970	980	990	1000
	RSVSPCSNVE	SRLLPYSHS	GSSSPDTKVK	PETPPRQSHS	GSISPYPKVK
	1010	1020	1030	1040	1050
	AQTPPGPSLS	GSKSPCQEK	SKDSLQVQSCP	GSLSLCAGVK	SSTPPGESYF
	1060	1070	1080	1090	1100
	GVSSLQKQ	SQTSPDHRSD	TSSPEVRQSH	SESPSLQSKS	QTSKGRSR
	1110	1120	1130	1140	1150
	SSSPVTELAS	RSPIRQDRGE	FSASPMLKSG	MSPEQSRFQS	DSSSYPTVDS
	1160	1170	1180	1190	1200
	NSLLGQSRLE	TAESKEKMAL	PPQEDATASP	PRQKDKFSPF	PVQDRPESSL
	1210	1220	1230	1240	1250
	VFKDTRLRTPP	RERSGAGSSP	ETKEQNSALP	TSSQDEELME	VVEKSEEPAG
	1260	1270	1280	1290	1300
	QILSHLSSEL	KEMSTSNFES	SPEVEERPAV	SLTLQSQSQ	ASLEAVEVPS
	1310	1320	1330	1340	1350
	MASSWGGPHF	SPEHKELSNS	PLRENSFGSP	LEFRNSGPLG	TEMNTGFSSE
	1360	1370	1380	1390	1400
	VKEDLNGPFL	NQLETDPPLD	MKEQSTRSSG	HSSSELSPPA	VEKAGMSSNQ
	1410	1420	1430	1440	1450
	SISSPVLDVAV	PRTPSRERSS	SASSPEMKDG	LPRTPSRRSR	SGSSPGLRDG
	1460	1470	1480	1490	1500
	SGTPSRHSLS	GSSPGMKDIP	RTPSRGRSEC	DSSPEPKALP	QTPRPRSRSP
	1510	1520	1530	1540	1550
	SSPELNKCL	TPQRERSGSE	SSVDQKTVAR	TPLGQSRSG	SSQELDVKPS
	1560	1570	1580	1590	1600
	ASPQERSESD	SSPDSKAKTR	TPLRQRSG	SSPEVDSKSR	LSPRRSRSGS
	1610	1620	1630	1640	1650
	SPEVKDKPRA	APRAQSGSDS	SPEPKAPAPR	ALPRRSRSGS	SSKGRGPSPE
	1660	1670	1680	1690	1700
	GSSSTESSPE	HPPKSRTARR	GSRSSPEPKT	KSRTPPRRRS	SRSSPELTRK

		1710	1720	1730	1740	1750
		ARLSRRSRSA	SSSPETRSRT	PPRHRRSPSV	SSPEPAEKSR	SSRRRRSASS
		1760	1770	1780	1790	1800
		PRTKTTSTRG	RSPSPKPRGL	QRSRSRRE	KTRTTTRRRDR	SGSSQSTSRR
		1810	1820	1830	1840	1850
		RQRSRSRSRV	TRRRRGGSGY	HSRSPARQES	SRTSSRRRRG	RSRTPPTSrk
		1860	1870	1880	1890	1900
		RSRSRTSPAP	WKRSRSRASP	ATHRRSRRT	PLISRRRSRS	RTSPVSRRRS
		1910	1920	1930	1940	1950
		RSRTSVTRRR	SRSRASPVSR	RRSRRTPPV	TRRRRSRSTP	TTRRRRSRRT
		1960	1970	1980	1990	2000
		PPVTRRRRSRS	RTPPVTRRRS	RSRTSPITRR	RSRSRTSPVT	RRRSRSTSP
		2010	2020	2030	2040	2050
		VTRRRRSRRT	SPVTRRRRSRS	RTPPAIRRRS	RSRTPLLPRK	RSRSRSPLAI
		2060	2070	2080	2090	2100
		RRRSRSTPR	TARGKRSLTR	SPPAIRRRSA	SGSSSDRSRS	ATPPATRNHS
		2110	2120	2130	2140	2150
		GSRTPPVALN	SSRMSCFSRP	SMSPTPLDRC	RSPGMLEPLG	SSRTPMSVLQ
		2160	2170	2180	2190	2200
		QAGGSMMDGP	GPRIPDHQRT	SVPENHAQSR	IALALTAISL	GTARPPPSMS
		2210	2220	2230	2240	2250
		AAGLAARMSQ	VPAPVPLMSL	RTAPAANLAS	RIPAASAAAM	NLASARTPAI
		2260	2270	2280	2290	2300
		PTAVNLADSR	TPAAAAAMNL	ASPRTAVAPS	AVNLADPRTP	TAPAVNLAGA
		2310	2320	2330	2340	2350
		RTPAALAALS	LTGSGTPPTA	ANYPSSSRTP	QAPASANLVG	PRSAHATAPV
		2360	2370	2380	2390	2400
		NIAGSRTAAA	LAPASLTSAR	MAPALSGANL	TSPRVPLSAY	ERVSGRTSPP
		2410	2420	2430	2440	2450
		LLDRARSRTP	PSAPSQSRMT	SERAPSPSSR	MGQAPSQSL	PPAQDQPRSP
		2460	2470	2480	2490	2500
		VPSAFSDQSR	CLIAQTTPVA	GSQSLSSGAV	ATTTSSAGDH	NGMLSVPAPG
		2510	2520	2530	2540	2550
		VPHSDVGEPP	ASTGAQQPSA	LAALQPAKER	RSSSSSSSSS	SSSSSSSSSS
		2560	2570	2580	2590	2600
		SSSSSSGSSS	SDSEGSSLPV	QPEVALKRV	SPTPAPKEAV	REGRPPEPTP
		2610	2620	2630	2640	2650
		AKRKRSSSSS	SSSSSSSSSS	SSSSSSSSSS	SSSSSSSSSS	SSSSSSSSPS
		2660	2670	2680	2690	2700
		PAKPGPQALP	KPASPKKPPP	GERRSRSPRK	PIDSLRDSRS	LSYSPVERRR
		2710	2720	2730	2740	2750
		PSPQPSPRDQ	QSSSERGSR	RGQRGDSRSP	SHKRRRETPS	PRPMHRSSR
		SP				

CWC22	T	10	20	30	40	50
		MKSSVAQIKP	SSGHDRRENL	NSYQRNSSPE	DRYEEQERSP	RDRDYFDYSR
		60	70	80	90	100
		SDYEHRRGR	SYDSSMESRN	RDREKRRERE	RDTDRKRSRK	SPSPGRRNPE
		110	120	130	140	150
		TSVTQSSSAQ	DEPATKKKKD	ELDPLLTRTG	GAYIPPAKLR	MMQEQUITDKN
		160	170	180	190	200
		SLAYQRMSWE	ALKKSINGLI	NKVNISNISI	IIQELLQENI	VRGRGLLSRS
		210	220	230	240	250
		VLQAQSASPI	FTHVYAALVA	IINSKFPQIG	ELILKRLILN	FRKGYRRNDK
		260	270	280	290	300
		QLCLTASKFV	AHLINQNVAH	EVLCLEMLTL	LLERPTDDSV	EVAIGFLKEC
		310	320	330	340	350
		GLKLTQVSPR	GINAIFERLR	NILHESEIDK	RVQYMIEVMF	AVRKDGFKDH
		360	370	380	390	400
		PIILEGLDLV	EEDDQFTHML	PLEDDYNPED	VLNVFKMDPN	FMENEKYKA
		410	420	430	440	450
		IKKEILDEGD	TDSNTDQDAG	SSEEEEEEEE	EEGEEDEEGQ	KVTIHDKTEI
		460	470	480	490	500
		NLVSFRRTIY	LAIQSSLDLFE	ECAHKLLKME	FPESQTKELC	NMILDCCAQQ
		510	520	530	540	550
		RTYEKFFGLL	AGRFCMLKKE	YMESFEGIFK	EQYDTIHRLE	TNKLNRVAKM
		560	570	580	590	600
		FAHLLYTDSL	PWSVLECIKL	SEETTTSSSR	IFVKIFFQEL	CEYMGLPKLN
		610	620	630	640	650
		ARLKDETLQP	FFEGLLP	DN PRNTRFAINF	FTSIGLGGLT	DELREHLKNT
		660	670	680	690	700
		PKVIVAQKPD	VEQNKSSPSS	SSSASSSSSES	DSSDSDSDSS	DSSSESSEES
		710	720	730	740	750
		SDSSSISHS	SASANDVRKK	GHGKTRSKEV	DKLIRNQQTN	DRKQKERRQE
		760	770	780	790	800
		HGHQETRTER	ERRSEKHRDQ	NSSGSNWRDP	ITKYTSDKDV	PSERNNYSRV
		810	820	830	840	850
		ANDRDQEMHI	DLENKHGDPK	KKRGERRNSF	SENEKHTHRI	KDSENFRRKD
		860	870	880	890	900
		RSKSKEMNRK	HSGSRSEDR	YQNGAERRWE	KSSRYSEQSR	ESKKNQDRRR
		EKSPAKQK				

AQR/IBP160	U	<table border="0"> <tr> <td>10</td> <td>20</td> <td>30</td> <td>40</td> <td>50</td> </tr> <tr> <td colspan="5">MAAPAQPKKI VAPTVSQINA EFVTQLACKY WAPHIKKKSP FDIKVIEDIY</td> </tr> <tr> <td>60</td> <td>70</td> <td>80</td> <td>90</td> <td>100</td> </tr> <tr> <td colspan="5">EKEIVKSRFA IRKIMLLEFS QYLENYLWMN YSPEVSSKAY LMSICCMVNE</td> </tr> <tr> <td>110</td> <td>120</td> <td>130</td> <td>140</td> <td>150</td> </tr> <tr> <td colspan="5">KFRENVPAWE IFKKKPDHFP FFFKHILKAA LAETDGEFSL HEQTVLLLFL</td> </tr> <tr> <td>160</td> <td>170</td> <td>180</td> <td>190</td> <td>200</td> </tr> <tr> <td colspan="5">DHCFNLSLEVD LIRSQVQOLI SLPMMWGLQL ARLELELKKT PKLRKFWNLI</td> </tr> <tr> <td>210</td> <td>220</td> <td>230</td> <td>240</td> <td>250</td> </tr> <tr> <td colspan="5">KKNDEKMDPE AREQAYQERR FLSQLIQKFI SVLKSVP LSE PVTMDKVHYC</td> </tr> <tr> <td>260</td> <td>270</td> <td>280</td> <td>290</td> <td>300</td> </tr> <tr> <td colspan="5">ERFIELMIDL EALLPTRRF NTILDDSHLL VHCYLSNLVR REEDGHLFSQ</td> </tr> <tr> <td>310</td> <td>320</td> <td>330</td> <td>340</td> <td>350</td> </tr> <tr> <td colspan="5">LLDMLKFYTG FEINDQTGNA LTENEMTTIH YDRITSLQRA AFAHFPELYD</td> </tr> <tr> <td>360</td> <td>370</td> <td>380</td> <td>390</td> <td>400</td> </tr> <tr> <td colspan="5">FALSNAEVD TRESLVKFFG PLSSNTLHQV ASYLCLLPTL PKNEDTTFDK</td> </tr> <tr> <td>410</td> <td>420</td> <td>430</td> <td>440</td> <td>450</td> </tr> <tr> <td colspan="5">EFLELLVSR HERRISQIQQ LNQMPLYPTE KIIWDENIVP TEYYSGEGCL</td> </tr> <tr> <td>460</td> <td>470</td> <td>480</td> <td>490</td> <td>500</td> </tr> <tr> <td colspan="5">ALPKLNQFL TLHDYLLRNF NLFRLSTYE IRQDIEDSVS RMKPWQSEYG</td> </tr> <tr> <td>510</td> <td>520</td> <td>530</td> <td>540</td> <td>550</td> </tr> <tr> <td colspan="5">GVVFGGWARM AQPIVAFTVV EVAKPNIGEN WPTRVRADVT INLNVRDHK</td> </tr> <tr> <td>560</td> <td>570</td> <td>580</td> <td>590</td> <td>600</td> </tr> <tr> <td colspan="5">DEWEGLRKHD VCFLITVRPT KPYGTFDRR RPFIEQVGLV YVRGCEIQGM</td> </tr> <tr> <td>610</td> <td>620</td> <td>630</td> <td>640</td> <td>650</td> </tr> <tr> <td colspan="5">LDDKGRVIED GPEPRPNLRG ESRTFRVFLD PNQYQQDMTN TIQNGAEDVY</td> </tr> <tr> <td>660</td> <td>670</td> <td>680</td> <td>690</td> <td>700</td> </tr> <tr> <td colspan="5">ETFNIIMRRK PKENNFKA VL ETIRNLMNTD CVVPDWLHDI ILGYGDPSSA</td> </tr> <tr> <td>710</td> <td>720</td> <td>730</td> <td>740</td> <td>750</td> </tr> <tr> <td colspan="5">HYSKMPNQIA TLD FNDTFLS IEHLKASFPG HNVKVTVEDP ALQIPFRIT</td> </tr> <tr> <td>760</td> <td>770</td> <td>780</td> <td>790</td> <td>800</td> </tr> <tr> <td colspan="5">FPVRSKGK GK RKDADVEDED TEEAKTLIVE PHVIPNRGPY PYNQPKRNTI</td> </tr> <tr> <td>810</td> <td>820</td> <td>830</td> <td>840</td> <td>850</td> </tr> <tr> <td colspan="5">QFHTQIEAI RAGMQPGLTM VVGPPGTGKT DVAVQIISNI YHNFPEQRTL</td> </tr> <tr> <td>860</td> <td>870</td> <td>880</td> <td>890</td> <td>900</td> </tr> <tr> <td colspan="5">IVTHSNQALN QLF EKIMALD IDERHLLRLG HGEEELETEK DFSRYGRVNY</td> </tr> <tr> <td>910</td> <td>920</td> <td>930</td> <td>940</td> <td>950</td> </tr> <tr> <td colspan="5">VLARRIELLE EVKRLQKSLG VPGDASYTCE TAGYFFLYQV MSRWEYISK</td> </tr> <tr> <td>960</td> <td>970</td> <td>980</td> <td>990</td> <td>1000</td> </tr> <tr> <td colspan="5">VKNKGSTLPD VTEVSTFFPF HEYFANAPQP IFKGRSYEED MEIAEGCFRH</td> </tr> <tr> <td>1010</td> <td>1020</td> <td>1030</td> <td>1040</td> <td>1050</td> </tr> </table>	10	20	30	40	50	MAAPAQPKKI VAPTVSQINA EFVTQLACKY WAPHIKKKSP FDIKVIEDIY					60	70	80	90	100	EKEIVKSRFA IRKIMLLEFS QYLENYLWMN YSPEVSSKAY LMSICCMVNE					110	120	130	140	150	KFRENVPAWE IFKKKPDHFP FFFKHILKAA LAETDGEFSL HEQTVLLLFL					160	170	180	190	200	DHCFNLSLEVD LIRSQVQOLI SLPMMWGLQL ARLELELKKT PKLRKFWNLI					210	220	230	240	250	KKNDEKMDPE AREQAYQERR FLSQLIQKFI SVLKSVP LSE PVTMDKVHYC					260	270	280	290	300	ERFIELMIDL EALLPTRRF NTILDDSHLL VHCYLSNLVR REEDGHLFSQ					310	320	330	340	350	LLDMLKFYTG FEINDQTGNA LTENEMTTIH YDRITSLQRA AFAHFPELYD					360	370	380	390	400	FALSNAEVD TRESLVKFFG PLSSNTLHQV ASYLCLLPTL PKNEDTTFDK					410	420	430	440	450	EFLELLVSR HERRISQIQQ LNQMPLYPTE KIIWDENIVP TEYYSGEGCL					460	470	480	490	500	ALPKLNQFL TLHDYLLRNF NLFRLSTYE IRQDIEDSVS RMKPWQSEYG					510	520	530	540	550	GVVFGGWARM AQPIVAFTVV EVAKPNIGEN WPTRVRADVT INLNVRDHK					560	570	580	590	600	DEWEGLRKHD VCFLITVRPT KPYGTFDRR RPFIEQVGLV YVRGCEIQGM					610	620	630	640	650	LDDKGRVIED GPEPRPNLRG ESRTFRVFLD PNQYQQDMTN TIQNGAEDVY					660	670	680	690	700	ETFNIIMRRK PKENNFKA VL ETIRNLMNTD CVVPDWLHDI ILGYGDPSSA					710	720	730	740	750	HYSKMPNQIA TLD FNDTFLS IEHLKASFPG HNVKVTVEDP ALQIPFRIT					760	770	780	790	800	FPVRSKGK GK RKDADVEDED TEEAKTLIVE PHVIPNRGPY PYNQPKRNTI					810	820	830	840	850	QFHTQIEAI RAGMQPGLTM VVGPPGTGKT DVAVQIISNI YHNFPEQRTL					860	870	880	890	900	IVTHSNQALN QLF EKIMALD IDERHLLRLG HGEEELETEK DFSRYGRVNY					910	920	930	940	950	VLARRIELLE EVKRLQKSLG VPGDASYTCE TAGYFFLYQV MSRWEYISK					960	970	980	990	1000	VKNKGSTLPD VTEVSTFFPF HEYFANAPQP IFKGRSYEED MEIAEGCFRH					1010	1020	1030	1040	1050
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560	570	580	590	600																																																																																																																																																																																																											
DEWEGLRKHD VCFLITVRPT KPYGTFDRR RPFIEQVGLV YVRGCEIQGM																																																																																																																																																																																																															
610	620	630	640	650																																																																																																																																																																																																											
LDDKGRVIED GPEPRPNLRG ESRTFRVFLD PNQYQQDMTN TIQNGAEDVY																																																																																																																																																																																																															
660	670	680	690	700																																																																																																																																																																																																											
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710	720	730	740	750																																																																																																																																																																																																											
HYSKMPNQIA TLD FNDTFLS IEHLKASFPG HNVKVTVEDP ALQIPFRIT																																																																																																																																																																																																															
760	770	780	790	800																																																																																																																																																																																																											
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810	820	830	840	850																																																																																																																																																																																																											
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860	870	880	890	900																																																																																																																																																																																																											
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		<p>IKKIFTQLEE FRASELLRSG LDRSKYLLVK EAKIIAMTCT HAALKRHDLV 1060 1070 1080 1090 1100 KLGFKYDNIL MEEAAQILEI ETFIPLLLQN PQDGF SRLKR WIMIGDHHQL 1110 1120 1130 1140 1150 PPVIKNMAFQ KYSNMEQSLF TRFVRVGVPT VDLDAQGRAR ASLCNLYNWR 1160 1170 1180 1190 1200 YKNLGNLPHV QLLPEFSTAN AGLLYDFQLI NVEDFQGVGE SEPNPYFYQN 1210 1220 1230 1240 1250 LGEAEYVVAL FMYMCLLGYP ADKISILTTY NGQKHLIRDI INRRCGNNPL 1260 1270 1280 1290 1300 IGRPNKVTTV DRFOGQONDY ILLSLVRTRA VGHLRDVRL VVAMSRARLG 1310 1320 1330 1340 1350 LYIFARVSLF QNCFELTPAF SOLTARPLHL HIIPTEPFPT TRKNGERPSH 1360 1370 1380 1390 1400 EVQI IKNMPQ MANFVYNMYM HLIQTTHYH QTLQLPPAM VEEGEEVQNO 1410 1420 1430 1440 1450 ETELETEEEA MTVQADIIPS PTDTSRQET PAFQDTTPS ETGATSTPEA 1460 1470 1480 IPALSETTPT VVGAVSAPAE ANTPQDATSA PEETK</p>
Ppil1	V	<p>10 20 30 40 50 MAAIPDSWQ PPNVYLETSM GIIVLELYWK HAPKTCKNFA ELARRGYNG 60 70 80 90 100 TKFHRIKDF MIQGGDPTGT GRGGASIYGK QFEDELHPDL KFTGAGILAM 110 120 130 140 150 ANAGPDTNGS QFFVTLAPTQ WLDGKHTIFG RVCQGIGMVN RVGMVETNSQ 160 DRPVDDVKII KAYPSG</p>
U2-A'/SNRPA1	W	<p>10 20 30 40 50 MVKLTAEIE QAAQYTN AVR DRELDLRGYK IPVIENLGAT LDQFDAIDFS 60 70 80 90 100 DNEIRKLDGF PLLRRLKTLLE VNNNRICRIG EGLDQALPCL TELILTNNSL 110 120 130 140 150 VELGDLDPLA SLKSLTYLSI LRNPVTNKKH YRLYVIYKVP QVRVLDFOKV 160 170 180 190 200 KLKERQEA EK MFKGKRG AOL AKDIARRSKT FNPAGLPTD KKKGGPSPGD</p>

		<p>210 220 230 240 250</p> <p>VEAIKNAIAN ASTLAEVERL KGLLQSGQIP GRERRSGPTD DGEEMEEDT</p> <p>VTNGS</p>
U2-B"/SNRPB2	X	<p>10 20 30 40 50</p> <p>MDIRPNHTIY INNMDKIKK EELKRSLYAL FSQFGHVVDI VALKTMKMRG</p> <p>60 70 80 90 100</p> <p>QAFVIFKELG SSTNALRQLQ GFPFYGKPMR IQYAKTDSDI ISKMRGTFAD</p> <p>110 120 130 140 150</p> <p>KEKKKEKKA KTVEQTATTT NKKPGQTPN SANTQGNSTP NPQVPDYPPN</p> <p>160 170 180 190 200</p> <p>YILFLNNLPE ETNEMMLSM FNQFPGFKEV RLVPGRHDIA FVEFENDGQA</p> <p>210 220</p> <p>GAARDALQGF KITPSHAMKI TYAKK</p>
SRRM1/SRm160	Y	<p>10 20 30 40 50</p> <p>MDAGFFRGTS AEQDNRFNSK QKLLKQLKF AECLEKKVDM SKVNLEVIK</p> <p>60 70 80 90 100</p> <p>WITKRVTEIL GFEDDVVIEF IFNQLEVKNP DSKMMQINLT GFLNGKNARE</p> <p>110 120 130 140 150</p> <p>FMGELWPLLL SAQENIAGIF SAFLELKKEE IKQRQIEQEK LASMKKQDED</p> <p>160 170 180 190 200</p> <p>KDKRDKEEKE SSREKRERSR SPRRRKSRSP SPRRRSSPVR RERKRSHSRS</p> <p>210 220 230 240 250</p> <p>PRHRTKSRSP SPAPEKKEKT PELPEPSVKV KEPSVQEATS TSDILKVPKP</p> <p>260 270 280 290 300</p> <p>EPIPEPKEPS PEKNSKKEKE KEKTRPRSRS RSKSRSRTRS RSPSHTRPRR</p> <p>310 320 330 340 350</p> <p>RHRSRRSYS PRRRPSPRRR PSPRRRTPPR RMPPPPRHRR SRSPVRRRRR</p> <p>360 370 380 390 400</p> <p>SSASLSGSSS SSSSSRSRSP PKKPPKRTSS PPRKTRRLSP SASPPRRRHR</p> <p>410 420 430 440 450</p> <p>PSPPATPPPK TRHSPTPQQS NRTRKSRVSV SPGRTSQKVT KHKGTEKRES</p> <p>460 470 480 490 500</p> <p>PSPAPKPRKV ELSESEEDKG GKMAAADSVQ QRRQYRRQNQ QSSSDSGSSS</p> <p>510 520 530 540 550</p>

		<p>SSEDERPKRS HVKNGEVGRR RRHSPSRAS PSPRKQKET SPRGRRRRSP 560 570 580 590 600</p> <p>SPPPTRRRRS PSPAPPPRRR RTPTPPRRR TPSPPRRRS PSPRRYSPPI 610 620 630 640 650</p> <p>QRRYSPSPPP KRRTASPPPP PKRRASPSPP PKRRVSHSPP PKQRSSPVTK 660 670 680 690 700</p> <p>RRSPSLSSKH RKGSSPSRST REARSPQPNK RHSPSPRPRA PQTSSSPPPV 710 720 730 740 750</p> <p>RRGASSPQR RQSPSPSTRP IRRVSRTEP KKIKAASPS PQSVRRVSSS 760 770 780 790 800</p> <p>RSVSGSPEPA AKKPPAPPSP VQSQSPSTNW SPAVPVKKAK SPTPSPSPR 810 820 830 840 850</p> <p>NSDQEGGGKK KKKKKDKKHK KDKKHKHKHK HKKEKAVAAA AAAAVTPAAI 860 870 880 890 900</p> <p>AAATTTLAQE EPVAAPEPKK ETESEAEDNL DDLEKHLREK ALRSMRKAQV</p> <p>SPQS</p>
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pre-mRNA	Z	<p>10 20 30 40 50 60 </p> <p>GAAUACAAGCUCAUCCGAUAUC<u>CGUACACCAUCAGGGUACG</u>AGCUAGCCCAUGG<u>CGUACA</u></p> <p>70 80 90 100 110 120 </p> <p><u>CCAUCAGGGUACG</u>ACUAGUAGAUCU<u>CGUACACCAUCAGGGUACG</u>GAAUUCUCUAGAGUCG</p> <p>130 140 150 160 170 180 </p> <p>AGGAGGACAUCUCAGCAAAAGAGAAGCUGCUGCGGGCGUCGGAGGACGAGCGGGACCGGG</p> <p>190 200 210 220 230 240 </p> <p>UGCUGGAGGAGCUGCACAAGGCAGAGGACAGCCUGCUGGCUGCCGACGAGAC<u>CGCCGCCA</u></p> <p>250 260 270 280 290 300 </p> <p><u>AGGUAUGUAUCAAGCUACAAG</u>ACAGCUUUAAGGAGACCAAUAGAAACUGGGCAUGUGGA</p> <p>310 320 330 340 350 360 </p> <p>GACAGAGAAGACUCUUGGCCUCGAGAAACCGUAAACUGGAAUGUGUGGAGUGUGACUG</p>
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		<pre> 370 380 390 400 410 420 AUAGAACACUACCUGAUUC UUAUGUAUU UACUGACCU GUGUUUUUUUGCUACUUUUUUUC 430 440 450 460 470 480 UUUUCUCCCCU UCCCCU UCCCUA UUUUUUUUUCUU GCCCUGAUCCGGAUUUGGAUCC </pre>
U2 snRNA	2	<pre> 10 20 30 40 50 AUCGCUUCUC GGCCUUUUGG CUAAGAUCAA GUGUAGUAUC UGUUCUUAUC 60 70 80 90 100 AGUUUAAUAU CUGA UACGUC CUCUAUCCGA GGACAAUUAU UUAAAUGGGAU 110 120 130 140 150 UUUUGGAGCA GGGAGAUGGA AUAGGAGCUU GCUCCGUCCA CUCCACGCAU 160 170 180 CGACCUGGUA UUGCAGUACC UCCAGGAACG GUGCACCC </pre>
U5 snRNA	5	<pre> 10 20 30 40 50 AUACUCUGGU UUCUCUUCAG AUCGCACAAA CUUUUCGCCU UUCAUCAAG 60 70 80 90 100 AUUUCCGUGG AGAGGAACAA CUCUG AGUCU UAACCCAAU UUUUGAGCCU 110 UGCCUUGGCA AGGCUA </pre>

U6 snRNA	6	<pre> 10 20 30 40 50 GUGCUCGCUU CGGCA GCACA UAUACUAAAA UUGGAACGAU ACAGAGAAGA 60 70 80 90 100 UUAGCAUGGC CCCUGCGCAA GGAUGACA CG CAAAUUCGUG AAGCGUCCA JAUUUUU </pre>
U5-Sm D2	a	<pre> 10 20 30 40 50 MSLLNPKPKSE MTPEELQKRE EEFNTGPLS VLTQSVKNNT QVLINCRNNK 60 70 80 90 100 KLLGRVKAFD RHCNMVLENV KEMWTEVPKS GKGKKKSKPV NKDRYISKMF 110 LRGDSVIVVL RNPLIAGK </pre>
U5-Sm F	b	<pre> 10 20 30 40 50 MSLPLNPKPF LNGLTGKPVV VKLKWGMEYK GYLVSVDDGYM NMQLANTEEY 60 70 80 IDGALSGHLG EVLIRCNNVL YIRGVEEEEEE DGEMRE </pre>
U5-Sm E	c	<pre> 10 20 30 40 50 MAYRGQGQKV QKVMVQPINL IFRYLQNRSR IQVWLYEQVN MRIEGCIIGF 60 70 80 90 DEYMNLVLDD AEEIHSKTKS RKQLGRIMLK GDNITLLQSV SN </pre>
U5-Sm G	d	<pre> 10 20 30 40 50 MSKAHPPELK KFMDDKLSLK LNGGRHVQGI LRGFDPFMNL VIDECEVEMAT </pre>

		<p>60 70</p> <p>SGQQNNIGMV VIRGNSIIML EALERV</p>
U5-Sm D3	e	<p>10 20 30 40 50</p> <p>MSIGVPIKVL HEAEGHIVTC ETNTGEVYRG KLIEAEDNMN QMSNITVTY</p> <p>60 70 80 90 100</p> <p>RDGRVAQLEQ VYIRGSKIRF LILPDMLKNA PMLKSMKNKN QGSGAGRGKA</p> <p>110 120</p> <p>AILKAQVAAR GRGRGMGRGN IFQKRR</p>
U5-Sm B	f	<p>10 20 30 40 50</p> <p>MTVGKSSKML QHIDYRMRCI LQDGRIFIGT FKAFDKHMNL ILCDCDEFK</p> <p>60 70 80 90 100</p> <p>IKPKNSKQAE REEKRVLGLV LLRGENLVSM TVEGPPPKDT GIARVPLAGA</p> <p>110 120 130 140 150</p> <p>AGGPGIGRAA GRGIPAGVPM PQAPAGLAGP VRGVGGPSQQ VMTPQGRGTV</p> <p>160 170 180 190 200</p> <p>AAAAAATAS IAGAPTQYPP GRGGPPPPMG RGAPPPGMMG PPPGMRPPMG</p> <p>210 220 230 240</p> <p>PPMGIPPGRG TPMGMPPPGM RPPPPGMRGP PPPGMRPPRE</p>
U5-Sm D1	g	<p>10 20 30 40 50</p> <p>MKLVRFMLKL SHETVTIELK NGTQVHGTIT GVDVSMNTHL KAVKMTLKNR</p> <p>60 70 80 90 100</p> <p>EPVQLETLSI RGNIRYFIL PDSLPLDTLL VDVEPKVKSK KREAVAGRGR</p> <p>110</p> <p>GRGRGRGRGR GRGRGGPRR</p>

U2-Sm D2	h	<pre> 10 20 30 40 50 MSLLNPKPKSE MTPEELQKRE EEEFNTGPLS VLTQSVKNNT QVLINCRNNK 60 70 80 90 100 KLLGRVKAFD RHCNMVLENV KEMWTEVPKS GKGKKKSKPV NKDRYISKMF 110 LRGDSVIVVL RNPLIAGK </pre>
U2-Sm F	i	<pre> 10 20 30 40 50 MSLPLNPKPF LNGLTGKPM VKLKWGMEYK GYLVSVDDGYM NMQLANTEEY 60 70 80 IDGALSGHLG EVLIRCNNVL YIRGVEEEE DGEMRE </pre>
U2-Sm E	j	<pre> 10 20 30 40 50 MAYRGQGQKV QKVMVQPINL IFRYLQNRSR IQVWLYEQVN MRIEGCIIGF 60 70 80 90 DEYMNVLVDD AEEIHSKTKS RKQLGRIMLK GDNITLLQSV SN </pre>
U2-Sm G	k	<pre> 10 20 30 40 50 MSKAHPPELK KFMDKKLSLK LNGGRHVQGI LRGFDPFMNL VIDECEVEMAT 60 70 SGQQNNIGMV VIRGNSIIML EALERV </pre>
U2-Sm D3	l	<pre> 10 20 30 40 50 MSIGVPIKVL HEAEGHIVTC ETNTGEVYRG KLIEAEDNMN CQMSNITVTY 60 70 80 90 100 </pre>

		<p>RDGRVAQLEQ VYIRGSKIRF LILPDMLKNA PMLKSMKNKN QGSGAGRGKA</p> <p>110 120</p> <p>AILKAQVAAR GRGRGMGRGN IFQKRR</p>
U2-Sm B	m	<p>10 20 30 40 50</p> <p>MTVGKSSKML QHIDYRMRCI LQDGRIFGT FKAFDKHMNL ILCDCDEFK</p> <p>60 70 80 90 100</p> <p>IKPKNSKQAE REEKRVLGLV LLRGENLVSM TVEGPPPKDT GIARVPLAGA</p> <p>110 120 130 140 150</p> <p>AGGPGIGRAA GRGIPAGVPM PQAPAGLAGP VRGVGGPSQQ VMTPOGRGTV</p> <p>160 170 180 190 200</p> <p>AAAAAATAS IAGAPTQYPP GRGGPPPPMG RGAPPPGMMG PPPGMRPPMG</p> <p>210 220 230 240</p> <p>PPMGIPPRG TPMGMPPPGM RPPPPGMRGP PPPGMRPPR</p>
U2-Sm D1	n	<p>10 20 30 40 50</p> <p>MKLVRFMML SHETVTIELK NGTQVHGTIT GVDVSMNTHL KAVKMTLKNR</p> <p>60 70 80 90 100</p> <p>EPVQLETLSI RGNNIRYFIL PDSLPLDTLL VDVEPKVKSK KREAVAGR</p> <p>110</p> <p>GRGRGRGRGR GRGRGGPR</p>
PPIE/CypE	o	<p>10 20 30 40 50</p> <p>MATTKRVLYV GGLAEVDDK VLHAAFIPFG DITDIQIPLD YETEKHRGFA</p> <p>60 70 80 90 100</p> <p>FVEFELAEDA AAIDNMNES ELFGRTIRVN LAKPMRIKEG SSRPVWSDDD</p> <p>110 120 130 140 150</p> <p>WLKKFSGKTL EENKEEEGSE PPKAETQEGE PIAKKARSNP QVYMDIKIGN</p> <p>160 170 180 190 200</p> <p>KPAGRIQMLL RSDVVPMTAE NFRCLCTHEK GFGFKGSSFH RIIPQFMCQG</p> <p>210 220 230 240 250</p>

		<p>GDFTNHNGTG GKSIYGKKFD DENFILKHTG PGLLSMANSQ PNTNGSQFFL 260 270 280 290 300 TCDKTDWLDG KHVVFGEVTE GLDVLRQIEA QGSKDGKPKQ KVIIADCGEY</p> <p>V</p>																																																																																																																																																																																																
<p>SF3A1/SF3a120/h Prp21</p>	<p>p</p>	<table border="0"> <thead> <tr> <th></th> <th>10</th> <th>20</th> <th>30</th> <th>40</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>MPAGPVQAVP</td> <td>PPPPVPTEPK</td> <td>QPTEEEASSK</td> <td>EDSAPSKPVV</td> <td>GIIYPPPEVR</td> <td></td> </tr> <tr> <td>60</td> <td>70</td> <td>80</td> <td>90</td> <td>100</td> <td></td> </tr> <tr> <td colspan="6">NIVDKTASV ARNGPEFEAR IRQNEINNPQ FNFLNPNDPY HAYYRHKVSE</td> </tr> <tr> <td>110</td> <td>120</td> <td>130</td> <td>140</td> <td>150</td> <td></td> </tr> <tr> <td>FKEGKAQEPS</td> <td>AAIPKVMQQQ</td> <td>QQTTOQQLPQ</td> <td>KVQAQVIQET</td> <td>IVPKEPPPEF</td> <td></td> </tr> <tr> <td>160</td> <td>170</td> <td>180</td> <td>190</td> <td>200</td> <td></td> </tr> <tr> <td>EFIADPPSIS</td> <td>AFDLLDVVKLT</td> <td>AQFVARNGRQ</td> <td>FLTQLMQKEQ</td> <td>RNYQFDLFRP</td> <td></td> </tr> <tr> <td>210</td> <td>220</td> <td>230</td> <td>240</td> <td>250</td> <td></td> </tr> <tr> <td colspan="6">QHSLFNYFTK LVEQYTKILI PPKGLFSKPK KEAENPREVL DQVCYRVEWA</td> </tr> <tr> <td>260</td> <td>270</td> <td>280</td> <td>290</td> <td>300</td> <td></td> </tr> <tr> <td colspan="6">KFQERERKKE EEEKEKERVA YAQIDWHDFV VVETVDFQPN EQGNFPPTT</td> </tr> <tr> <td>310</td> <td>320</td> <td>330</td> <td>340</td> <td>350</td> <td></td> </tr> <tr> <td>PEELGARILI</td> <td>QERYEKFGES</td> <td>EEVEMEVEDS</td> <td>EEDDKQEKAE</td> <td>EPPSQLDQDT</td> <td></td> </tr> <tr> <td>360</td> <td>370</td> <td>380</td> <td>390</td> <td>400</td> <td></td> </tr> <tr> <td>QVQDMDEGSD</td> <td>DEEEGQKVPP</td> <td>PPETPMPPPL</td> <td>PPTPDQVIVR</td> <td>KDYDPKASKP</td> <td></td> </tr> <tr> <td>410</td> <td>420</td> <td>430</td> <td>440</td> <td>450</td> <td></td> </tr> <tr> <td>LPPAPAPDEY</td> <td>LVSPITGEKI</td> <td>PASKMQEHMR</td> <td>IGLLDPRWLE</td> <td>QRDRSIREKQ</td> <td></td> </tr> <tr> <td>460</td> <td>470</td> <td>480</td> <td>490</td> <td>500</td> <td></td> </tr> <tr> <td>SDDEVYAPGL</td> <td>DISSLKQLA</td> <td>ERRTDIFGVE</td> <td>ETAIGKKIGE</td> <td>EEIQKPEEKV</td> <td></td> </tr> <tr> <td>510</td> <td>520</td> <td>530</td> <td>540</td> <td>550</td> <td></td> </tr> <tr> <td>TWDGHSGSMA</td> <td>RTQQAQANI</td> <td>TLQEQIEAIH</td> <td>KAKGLVPEDD</td> <td>TKEKIGPSKP</td> <td></td> </tr> <tr> <td>560</td> <td>570</td> <td>580</td> <td>590</td> <td>600</td> <td></td> </tr> <tr> <td>NEIPQQPPPP</td> <td>SSATNIPSSA</td> <td>PPITSVPRPP</td> <td>TMPPPVRTTV</td> <td>VSAVPVMRP</td> <td></td> </tr> <tr> <td>610</td> <td>620</td> <td>630</td> <td>640</td> <td>650</td> <td></td> </tr> <tr> <td>PMASVRLPP</td> <td>GSVIAPMPPI</td> <td>IHAPRINVVP</td> <td>MPPSAPPIMA</td> <td>PRPPMIVPT</td> <td></td> </tr> <tr> <td>660</td> <td>670</td> <td>680</td> <td>690</td> <td>700</td> <td></td> </tr> <tr> <td>AFVPAPPVAP</td> <td>VPAPAPMPPV</td> <td>HPPPPMEDEP</td> <td>TSKKLKTEDS</td> <td>LMPEEEFLRR</td> <td></td> </tr> <tr> <td>710</td> <td>720</td> <td>730</td> <td>740</td> <td>750</td> <td></td> </tr> <tr> <td>NKGPVSIKQV</td> <td>VPNMQDKTEW</td> <td>KLNGQVLVFT</td> <td>LPLTDQVSVI</td> <td>KVKIHEATGM</td> <td></td> </tr> <tr> <td>760</td> <td>770</td> <td>780</td> <td>790</td> <td></td> <td></td> </tr> <tr> <td>PAGKQKLQYE</td> <td>GIFIKDSNSL</td> <td>AYYNMANGAV</td> <td>IHLALKERGG</td> <td>RKK</td> <td></td> </tr> </tbody> </table>		10	20	30	40	50	MPAGPVQAVP	PPPPVPTEPK	QPTEEEASSK	EDSAPSKPVV	GIIYPPPEVR		60	70	80	90	100		NIVDKTASV ARNGPEFEAR IRQNEINNPQ FNFLNPNDPY HAYYRHKVSE						110	120	130	140	150		FKEGKAQEPS	AAIPKVMQQQ	QQTTOQQLPQ	KVQAQVIQET	IVPKEPPPEF		160	170	180	190	200		EFIADPPSIS	AFDLLDVVKLT	AQFVARNGRQ	FLTQLMQKEQ	RNYQFDLFRP		210	220	230	240	250		QHSLFNYFTK LVEQYTKILI PPKGLFSKPK KEAENPREVL DQVCYRVEWA						260	270	280	290	300		KFQERERKKE EEEKEKERVA YAQIDWHDFV VVETVDFQPN EQGNFPPTT						310	320	330	340	350		PEELGARILI	QERYEKFGES	EEVEMEVEDS	EEDDKQEKAE	EPPSQLDQDT		360	370	380	390	400		QVQDMDEGSD	DEEEGQKVPP	PPETPMPPPL	PPTPDQVIVR	KDYDPKASKP		410	420	430	440	450		LPPAPAPDEY	LVSPITGEKI	PASKMQEHMR	IGLLDPRWLE	QRDRSIREKQ		460	470	480	490	500		SDDEVYAPGL	DISSLKQLA	ERRTDIFGVE	ETAIGKKIGE	EEIQKPEEKV		510	520	530	540	550		TWDGHSGSMA	RTQQAQANI	TLQEQIEAIH	KAKGLVPEDD	TKEKIGPSKP		560	570	580	590	600		NEIPQQPPPP	SSATNIPSSA	PPITSVPRPP	TMPPPVRTTV	VSAVPVMRP		610	620	630	640	650		PMASVRLPP	GSVIAPMPPI	IHAPRINVVP	MPPSAPPIMA	PRPPMIVPT		660	670	680	690	700		AFVPAPPVAP	VPAPAPMPPV	HPPPPMEDEP	TSKKLKTEDS	LMPEEEFLRR		710	720	730	740	750		NKGPVSIKQV	VPNMQDKTEW	KLNGQVLVFT	LPLTDQVSVI	KVKIHEATGM		760	770	780	790			PAGKQKLQYE	GIFIKDSNSL	AYYNMANGAV	IHLALKERGG	RKK	
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<td>ADEEFLFGDV</td><td>ELSRHERQEL</td><td>KYKRRVRDLA</td><td>REYRAAGEQE</td><td>KLEATNRYHM</td></tr> <tr> <td>310</td><td>320</td><td>330</td><td>340</td><td>350</td></tr> <tr> <td>PKETRGQPAR</td><td>AVDLVEEESG</td><td>APGEEQRRWE</td><td>EARLGAASLK</td><td>FGARDAASQE</td></tr> <tr> <td>360</td><td>370</td><td>380</td><td>390</td><td>400</td></tr> <tr> <td>PKYQLVLEEE</td><td>ETIEFVRATQ</td><td>LQGDEEPSAP</td><td>PTSTQAQQKE</td><td>SIQAVRRSLP</td></tr> <tr> <td>410</td><td>420</td><td>430</td><td>440</td><td>450</td></tr> <tr> <td>VFPFREELLA</td><td>AIANHQVLII</td><td>EGETGSGKTT</td><td>QIPQYLFEEG</td><td>YTNKGMKIAC</td></tr> <tr> <td>460</td><td>470</td><td>480</td><td>490</td><td>500</td></tr> <tr> <td>TQPRRVAAMS</td><td>VAARVAREMG</td><td>VKLGNEVGYS</td><td>IRFEDCTSER</td><td>TVLRYMTDGM</td></tr> <tr> <td>510</td><td>520</td><td>530</td><td>540</td><td>550</td></tr> <tr> <td>LLREFLSEPD</td><td>LASYSVVMVD</td><td>EAHERTLHTD</td><td>ILFGLIKDVA</td><td>RFRPELKVLV</td></tr> <tr> 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</table>	10	20	30	40	50	MATPAGLERW	VQDELHSQLG	LSERHVAQFL	IGTAQRCTSA	EEFVQRLRDT	60	70	80	90	100	DTLDLSGPAR	DFALRLWNKV	PRKAVVEKPA	RAAEREARAL	LEKNRSYRLL	110	120	130	140	150	EDSEESSEET	VSRAGSSLQK	KRKKRKHLRK	KREEEEEEEEA	SEKGGKKTGG	160	170	180	190	200	SKQQTEKPES	EDEWERTERE	RLQDLEERDA	FAERVRQRDK	DRTRNVLERS	210	220	230	240	250	DKKAYEEAQK	RLKMAEEDRK	AMVPELRKKS	RREYLAKRER	EKLEDLEAEL	260	270	280	290	300	ADEEFLFGDV	ELSRHERQEL	KYKRRVRDLA	REYRAAGEQE	KLEATNRYHM	310	320	330	340	350	PKETRGQPAR	AVDLVEEESG	APGEEQRRWE	EARLGAASLK	FGARDAASQE	360	370	380	390	400	PKYQLVLEEE	ETIEFVRATQ	LQGDEEPSAP	PTSTQAQQKE	SIQAVRRSLP	410	420	430	440	450	VFPFREELLA	AIANHQVLII	EGETGSGKTT	QIPQYLFEEG	YTNKGMKIAC	460	470	480	490	500	TQPRRVAAMS	VAARVAREMG	VKLGNEVGYS	IRFEDCTSER	TVLRYMTDGM	510	520	530	540	550	LLREFLSEPD	LASYSVVMVD	EAHERTLHTD	ILFGLIKDVA	RFRPELKVLV	560	570	580	590	600	ASATMDTARF	STFFDDAPVF	RIPGRRFPVD	IFYTKAPEAD	YLEACVVSVL	610	620	630	640	650	QIHVTQPPGD	ILVFLTGQEE	IEAACEMLQD	RCRRLGSKIR	ELLVLPFIYAN	660	670	680	690	700	LPSDMQARIF	QPTPPGARKV	VVATNIAETS	LTIEGIIYVL	DPGFCKQKSY	710	720	730	740	750	NPRTGMESLT	VTPCSKASAN	QRAGRGRVA	AGKCFRLYTA	WAYQHELEET	760	770	780	790	800	TVPEIQRTSL	GNVLLKSL	GIHDLMHFDF	LDPPPYETLL	LALQLYALG	810	820	830	840	850	ALNHLGELTT	SGRKMAELPV	DPMLSKMILA	SEKYSCSEEI	LTVAAMLSVN	860	870	880	890	900	NSIFYRPKDK	VHADNARVN	FFLPGGDHLV	LLNVYTQWAE	SGYSSQWCYE	910	920	930	940	950	NFVQFRSMRR	ARDVREOLEG	LLERVEVGLS	SCQGDYIRVR	KAITAGYFYH	960	970	980	990	1000	TARLTRSGYR	TVKQQQTVFI	HPNSSLFEQQ	PRWLLYHELV	LTTKEFMROV
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		1010	1020	1030	1040	
		LEIESSWLE VAPHYYKAKE LEDPHAKKMP KKIGKTREEL G				
BRR2	r	10	20	30	40	50
		MADVARSLO YEYKANSNLV LQADRSLDR TRRDEPTGEV LSLVGKLEGT				
		60	70	80	90	100
		RMGDKAQRTK POMQEERRAK RKRDEDRHD INKMKGYTLL SEGIDEMVGI				
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		IYKPKTKETR ETYEVLLSFI QAALGDQPRD ILCGAADDEVL AVLKNEKLRD				
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		KERRKEIDLL LGQTDTRYH VLVNLGKKIT DYGGDKEIQN MDDNIDETYG				
		210	220	230	240	250
		VNVQFESDEE EGDEDVYGEV REEASDDME GDEAVVRCTL SANLVSAGEL				
		260	270	280	290	300
		MSSKKKDLHP RDIDAFWLOR QLSRFYDDAI VSQKKADEVL EILKTASDDR				
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		ECENQLVLLL GFNTFDFIKV LRQHRMMILY CTLLASAQSE AEKERIMGKM				
		360	370	380	390	400
		EADPELSKFL YQLHETEKED LIREERSRRE RVRQSRMDDT LETMDLDQGG				
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		EALAPRQVLD LEDLVFTQGS HFMANKRCQL PDGSFRRQRK GYEEVHVPAI				
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		KPKPFGSEEQ LLPVEKLPKY AQAGFEGFKT LNRIQSKLYR AALETDENLL				
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		LCAPTGAGKT NVALMCMFRE IGKHINMDGT INVDDFKIY IAPMRSLVQE				
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		MVGSGFKRLA TYGITVAELT GDHQLCKEEI SATQIIVCTP EKWDIITRKG				
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		GERTYTQLVR LIILDEIHLI HDRRGPVLEA LVARAIRNIE MTQEDVRLIG				
		660	670	680	690	700
		LSATLPNYED VATFLRVDPA KGLFYFDNSF RVPVLEQTYV GITEKKAIKR				
		710	720	730	740	750
		FQIMNEIVYE KIMEHAGKNQ VLVFVHSRKE TGKTARAIRD MCLEKDTLGL				
		760	770	780	790	800
		FLREGSASTE VLRTEAEQCK NLELKDLLPY GFATHHAGMT RVDRTLVEDL				
		810	820	830	840	850
		FADKHIQVLV STATLAWGVN LPAHTVIKIG TQVYSPEKGR WTELGALDIL				
		860	870	880	890	900
		QMLGRAGRPO YDTKGEGLI TSHGELQYYL SLLNQQLPIE SQMVSKLPDM				
		910	920	930	940	950
		LNAEIVLGNV QNAKDAVNWL GYAYLYIRML RSPTLYGISH DDLKGDPLLD				
		960	970	980	990	1000

QRRDLVHTA	ALMLDKNNLV	KYDKKTGNFQ	VTELGRASH	YYITNDTVQT
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YNQLLKPTLS	EIELFRVFSL	SSEFKNITVR	EEKLELQKL	LERVPIPVKE
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SIEEPSAKIN	VLLQAFISQL	KLEGFALMAD	MVYVTSAGR	LMRAIFEIVL
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NRGWAQLTDK	TLNLCKMIDK	RMWQSMCPLR	QFRKLPEEVV	KKIEKKNFPF
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ERLYDLNHNE	IGELIRMPKM	GKTIHKYVHL	FPKLELSVHL	QPITRSTLKV
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ELTITPDFQW	DEKVGHSSEA	FWILVEDVDS	EVILHHEYFL	LKAKYAQDEH
1260	1270	1280	1290	1300
LITFFVPVFE	PLPPQYFIRV	VSDRWLSCET	QLPVSFRHLI	LPEKYPPPTE
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LLDLQPLPVS	ALRNSAFESL	YQDKFPFFNP	IQTQVFNTVY	NSDDNVFVGA
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PTGSGKTICA	EFAILRMLLQ	SSEGRVCYIT	PMEALAEQVY	MDWYEFQDR
1410	1420	1430	1440	1450
LNKKVLLTG	ETSTDLLKLG	KGNIIISTPE	KWDILSRRWK	QRKNVQINIL
1460	1470	1480	1490	1500
FVVDEVHLIG	GENGPVLEVI	CSRMRYISSQ	IERPIRIVAL	SSLSNAKDV
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AHWLGCSATS	TFNFHPNVRP	VPLELHIQGF	NISHTQTRLL	SMAKPVYHAI
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TKHSPKKPVI	VFVPSRKQTR	LTADILTTC	AADIQRQRF	HCTEKDLIPY
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LEKLS DSTLK	ETLLNGVGYL	HEGLSPMERR	LVEQLFSSGA	IQVVVASRSL
1660	1670	1680	1690	1700
CWGMNVA AHL	VIIMDTQYYN	GKI HAYVDYP	IYDVLQMVGH	ANRPLQDDEG
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RCVIMCQ GSK	KDFFKKFLYE	PLPVESHLDH	CMHDFNAEI	VTKTIENKQD
1760	1770	1780	1790	1800
AVDYLTW TFL	YRRMTQNP NY	YNLQGISHRH	LSDHLS ELVE	QTLSDLEQSK
1810	1820	1830	1840	1850
CISIEDEMDV	APLNLMIAA	YYYINYTTIE	LFSMSLNAKT	KVRGLIEIIS
1860	1870	1880	1890	1900
NAAEYENIPI	RHEDNLLRQ	LAQKVPKLN	NPKFNDPHVK	TNLLLQAHLS
1910	1920	1930	1940	1950
RMQLSAELQS	DTEEILSKAI	RLIQACVDVL	SSNGWLSPAL	AAMELAQMVT
1960	1970	1980	1990	2000
QAMWSKDSYL	KQLPHFTSEH	IKRCTDKGVE	SVFDIMEMED	EERNALLQLT
2010	2020	2030	2040	2050
DSQIADVARF	CNRYPNIELS	YEVVDKDSIR	SGGPVVVLVQ	LEREEV TGP
2060	2070	2080	2090	2100
VIAPLFPQKR	EEGWVVIGD	AKSNLSISIK	RLTLQOKAKV	KLDFVAPATG

		2110	2120	2130		
		AHNYTLYFMS DAYMGCDQEY KFSVDVKEAE TDSDSL				
CWC27/NY-CO-10	s	10	20	30	40	50
		MSNIYIQEPP TNGKVLKTT AGDIDIELWS KEAPKACRNF IQLCLEAYYD				
		60	70	80	90	100
		NTIFHRVVPG FIVQGGDPTG TGSGGESIYG APFKDEFHSR LRFNRRGLVA				
		110	120	130	140	150
		MANAGSHDNG SQFFFTLGRA DELNNKHTIF GKVTGDTVYN MLRLSEVDID				
		160	170	180	190	200
		DDERPHNPHK IKSCVLFNP FDDIIFREIK RLKKEKPEEE VKKLKPKGTK				
		210	220	230	240	250
		NFSLLSFGEE AEEEEEEVNR VSQSMKGKSK SSHDLLKDDP HLSSVPVVES				
		260	270	280	290	300
		EKGDAPDLVD DGEDESAEHD EYIDGDEKNL MRERIAKCLK KDTSANVKA				
		310	320	330	340	350
		GEGEVEKKS SVSRSEELRKEA RQLKRELLAA KQKKVENAAK QAEKRSEEEEE				
		360	370	380	390	400
		APPDGAVA EYRREKQKYEAL RKQQSKKGTS REDQTLALLN QFKSKLTQAI				
		410	420	430	440	450
		AETPENDIPE TEVEDDEGWM SHVLQFEDKS RKVKDASMQD SDTFEIYDPR				
		460	470			
		NPVNKRREE SKKLMREKKE RR				
RNF113A	t	10	20	30	40	50
		MAEQLSPGKA VDQVCTFLFK KPGRKGAAGR RKR PACDPEP GESGSSSDEG				
		60	70	80	90	100
		CTVVRPEKKR VTHNPMIQKT RDSGKQKAAY GDLSSEEEEE NEPESLGVVY				
		110	120	130	140	150
		KSTRSAKPVG PEDMGATAVY ELDTEKERDA QAIFERSQKI QEELRGKEDD				
		160	170	180	190	200
		KIYRGINNYQ KYMKPKDTSM GNASSGMVRK GPIRAPEHLR ATVRWDYQPD				
		210	220	230	240	250
		ICKDYKETGF CGFGDSCKFL HDRSDYKHGW QIERELDEGR YGVYEDENYE				
		260	270	280	290	300
		VGSDDDEIIPF KCFICRQSFQ NPVVTKCRHY FCESCALQHF RTTPRCYVCD				

		310	320	330	340	
		QQTNGVFNPA KELIAKLEKH RATGEGGASD LPEDPDEDAL PIT				
SF3B1/SF3B155	u	10	20	30	40	50
		MAKIAKTHED	IEAQIREIQG	KKAALDEAQG	VGLDSTGYVD	QEIIYGGSDSR
		60	70	80	90	100
		FAGYVTSIAA	TELEDDDDDY	SSSTSLLGQK	KPGYHAPVAL	LNDIPQSTEQ
		110	120	130	140	150
		YDPFAEHRPP	KIADREDEYK	KHRRMTMIISP	ERLDPFADGG	KTPDPKMNAR
		160	170	180	190	200
		TYMDVMREQH	LTKEEREIRQ	QLAEKAKAGE	LKVVNGAAAS	QPPSKRKRWW
		210	220	230	240	250
		DQTADQTPGA	TPKKLSSWDQ	AETPGHTPSL	RWDETPGRAK	GSETPGATPG
		260	270	280	290	300
		SKIWDPTPSH	TPAGAATPGR	GDTPGHATPG	HGGATSSARK	NRWDETPKTE
		310	320	330	340	350
		RDTPGHGSGW	AETPRTDRGG	DSIGETPTPG	ASKRKSRWDE	TPASQMGGST
		360	370	380	390	400
		PVLTPGKTPI	GTPAMNMATP	TPGHIMSMTG	EQLQAWRWER	EIDERNRPLS
		410	420	430	440	450
		DEELDAMFPE	GYKVLPPPAG	YVPIRTPARK	LTATPTPLGG	MTGFHMQTED
		460	470	480	490	500
		RTMKSVNDQP	SGNLPFLKPD	DIQYFDKLLV	DVDESTLSPE	EQKERKIMKL
		510	520	530	540	550
		LLKIKNGTPP	MRKAALRQIT	DKAREFGAGP	LFNQILPLLM	SPTLEDQERH
		560	570	580	590	600
		LLVKVIDRIL	YKLDDLVRPY	VHKILVVIEP	LLIDEDYYAR	VEGREIISNL
		610	620	630	640	650
		AKAAGLATMI	STMRPDIDNM	DEYVRNTTAR	AFAVVASALG	IPSLLPFLKA
		660	670	680	690	700
		VCKSKKSWQA	RHTGIKIVQQ	IAILMGCAIL	PHLRSLVEII	EHGLVDEQQK
		710	720	730	740	750
		VRTISALAI	ALAEAATPYG	IESFDSVLKP	LWKGIRQHRG	KGLAAFLKAI
		760	770	780	790	800
		GYLIPLMDAE	YANYYTREVM	LILIREFQSP	DEEMKKIVLK	VVKQCCGTDG
		810	820	830	840	850
		VEANYIKTEI	LPPFFKHFQ	HRMALDRNY	RQLVDTTVEL	ANKVGAAEII
		860	870	880	890	900
		SRIVDDLKDE	AEQYRKMVME	TIEKIMGNLG	AADIDHKEE	QLIDGILYAF
		910	920	930	940	950
		QEQTTEDSVM	LNGFGTVVNA	LGKRVKPYLP	QICGTVLWRL	NNKSAKVRQQ
		960	970	980	990	1000

		AADLISRTAV VMKTCQEEKL MGH LGV VLYE YLGE EYPEVL GSILGALKAI 1010 1020 1030 1040 1050
		VNVIGMHKMT PPIKDLLPRL TPILKNRHEK VQENCIDLVG RIADRGAEYV 1060 1070 1080 1090 1100
		SAREWMRICF ELLELLKAHK KAIRRATVNT FGYIAKAIGP HDVLATLLNN 1110 1120 1130 1140 1150
		LKVQERQNRV CTTVAIAIVA ETCSPFTVLP ALMNEYRVPE LNVQNGVLKS 1160 1170 1180 1190 1200
		LSFLFEYIGE MGKDYIYAVT PLEEDALMDR DLVHRQTASA VVQHMSLG VY 1210 1220 1230 1240 1250
		GFGCEDSLNH LLNYVWPNVF ETSPHVIQAV MGALEGLRVA IGPCRM LQYC 1260 1270 1280 1290 1300
		LQGLFHPARK VRDVYWKIYN SIYIGSQDAL IAHPRIYND DKNTYIRYEL DYII

SF3B3/SF3B130	v	10 20 30 40 50 MFLYNLT LQR ATGISFAIHG NFSG TKQQEI VVSRGKILEL LRPDPNTGKV 60 70 80 90 100 HTLLTVEVFG VIRSLMAFRL TGGTKDYIVV GSDSGRIVIL EYQPSKNMFE 110 120 130 140 150 KIHQETFGKS GCRRIVPGQF LAVDPKGRAV MISAIEKQKL VYILNRDAAA 160 170 180 190 200 RLTISSPLEA HKANTLVYHV VGVDVGFENP MFACLEMDYE EADNDPTGEA 210 220 230 240 250 AANTQQT LTF YELDLGLNHV VRKYSEPLEE HGNFLITVPG GSDGPGSVLI 260 270 280 290 300 CSENYITYKN FGDQPDIRCP IPRRRNDLDD PERGMIFVCS ATHKTKSMFF 310 320 330 340 350 FLAQTEQGDI FKITLETDED MVTEIRLKYF DTVPVAAAAMC VLKTGFLFVA 360 370 380 390 400 SEFGNHLYQ IAHLGDDDEE PEFSSAMPLE EGD TFFFQPR PLKNLVLVDE 410 420 430 440 450 LDLSPILFC QIADLANEDT PQLYVACGRG PRSSLRVL RH GLEVSEMAVS 460 470 480 490 500 ELPGNPN AVW TVRRHIEDEF DAYIIVSFVN ATLVLSIGET VEEVTD SGFL 510 520 530 540 550 GTTPTLS CSL LGDDALVQVY PDGIRHIRAD KRVNEWKTPG KKTIVKCAVN 560 570 580 590 600 QRQV IAL TG GELVYFEMDP SGQLNEYTER KEMSADV VCM SLAN VPPGEO 610 620 630 640 650 RSRFLAVGLV DNTVRIISLD PSDCLOPLSM QALPAQFESL CIVEMGGTEK
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		660	670	680	690	700
		QDELGERGSI	GFLYLNIGLQ	NGVLLRT	VLD PVTGD	LSDTR TRYLG
		710	720	730	740	750
		LFRVRMQQE	AVLAMSSRSW	LSYSYQSRFH	LTPLSYETLE	FASGFASEQC
		760	770	780	790	800
		PEGIVAISTN	TLRILALEKL	GAVFNQVAFP	LQYTPRKFSVI	HPESNNLIII
		810	820	830	840	850
		ETDHNAYTEA	TKAQRKQOMA	EEMVEAAGED	ERELA	AEEMAA AFLNENLPES
		860	870	880	890	900
		IFGAPKAGNG	QWASVIRVMN	PIQGNTLDLV	QLEQNEAAFS	VAVCRFSNTG
		910	920	930	940	950
		EDWYVLVGVA	KDLILNPRSV	AGGFVYTYKL	VNNGEKLEFL	HKTPVEEVPA
		960	970	980	990	1000
		AIAPFQGRVL	IGVGKLLRVY	DLGKKLLRK	CENKHIANYI	SGIQTIGHRV
		1010	1020	1030	1040	1050
		IVSDVQESFI	WVRYKRNMENQ	LIIFADDTYP	RWVTTASLLD	YDTVAGADKE
		1060	1070	1080	1090	1100
		GNICVURLPP	NTNDEVDE	DP TGNKALWDRG	LLNGASQKAE	VIMNYHVGET
		1110	1120	1130	1140	1150
		VLSLQKTTLI	PGGSESLVYT	TLSGGIGILV	PFTSHEDHDF	FQHVEMHLRS
		1160	1170	1180	1190	1200
		EHPPLCGRDH	LSFRSYYFPV	KNVIDGDLCE	QFNSMEPNKQ	KNVSEELDRT
		1210				
		PPEVSKKLED	IRTRYAF			

ISY1	w	10	20	30	40	50
		MARNAEKAMT	ALARFROAQL	EEGKVKERRP	FLASECTELP	KAEKWRRQII
		60	70	80	90	100
		GEISKKVAQI	QNAGLGEFRI	RLNDEINKL	LREKGHWEVR	IKELGGPDYG
		110	120	130	140	150
		KVGPKMLDHE	GKEVPGNRGY	KYFGAAKDLP	GVRELFEKEP	LPPPRKTRAE
		160	170	180	190	200
		LMKAIDFEYY	GYLDEDDGVI	VPLEQEYEKK	LRAELVEKWK	AEREARLARG
		210	220	230	240	250
		EKEEEEEEEE	EINIYAVTEE	ESDEEGSQEK	GGDSQQKFI	AHVPVPSQQE
		260	270	280		
		IEEALVRRKK	MELLOQYASE	TLQAQSEAR	RLLY	

SF3B5/SF3B10	x	<pre> 10 20 30 40 50 MTDRYTIHSQ LEHLQSKYIG TGHADTTKWE WLVNQHRDSY CSYMGHFDLL 60 70 80 NYFAIAENES KARVRFNLME KMLQPCGPPA DKPEEN </pre>
PHF5A/SF3B14B	y	<pre> 10 Zn 20 30 40 50 MAKHHPD LIF CRKQAGVAIG RLCEKCDGKC VICDSYVRPC TLV RICDECN 60 70 80 90 100 YGSYQGR CVI CGGPGVSDAY YCKECTIQEK DRDGCPKIVN LGSSKTDLFY 110 RKKYGFKKR </pre>
SF3B6/SF3Bp14	z	<pre> 10 20 30 40 50 MAMQA AKRAN IRLPPEVNRI LYIRNLPYKI TAEEMYDIFG KYGPIRQIRV 60 70 80 90 100 GNTPETR GTA YVVYEDIFDA KNACDHL SGF NVCNRYLVVL YYNANRAFQK 110 120 MDTKKKEEQ LKLIKEKYGIN TDPRK </pre>
SNIP/hPml1	0	<pre> 10 20 30 40 50 MKAVKSERER GSRRRHRDGD VVLPAGVVVK QERLSPEVAP PAHRRPDHSG 60 70 80 90 100 GSPSPPTSEP ARSGHRGNRA RGVSRSPPKK KNKASGRRSK SPRSKRNRSP 110 120 130 140 150 HHSTVKVKQE REDHPRRGRE DRQHREPSEQ EHRRARNSDR DRHRGHSHQR 160 170 180 190 200 </pre>

		<p>RTSNERP GSG QGQGRDRDTQ NLQAQEEERE FYNARRREHR QRNDVGGGGS</p> <p>210 220 230 240 250</p> <p>ESQELVPRPG GNNKEKEVPA KEKPSFELSG ALLEDTNTFR GVIKYSEPP</p> <p>260 270 280 290 300</p> <p>EARIPKKRWR LYPFKNDEVL PVMYIHRQSA YLLGRHRIA DIPIDHPSCS</p> <p>310 320 330 340 350</p> <p>KQHAVFQYRL VEYTRADGTV GRRVKPYIID LGSGNGTFLN NKRIEPOQRY</p> <p>360 370 380 390</p> <p>ELKEKDVLKF GFSSREYVLL HESSDTSEID RKDDEDEEEE EEVS</p>
<p>RBMX2/hSnu17</p>	<p>1</p>	<p>10 20 30 40 50</p> <p>MN PLTKVKLI NELNEREVQL GVADKVSWS EYKDSAWIFL GGLPYELTEG</p> <p>60 70 80 90 100</p> <p>DIICVFSQYG EIVNINLVRD KKTGKSKGFC FLCYEDQRST ILAVDNFNGI</p> <p>110 120 130 140 150</p> <p>KIKGRTIRVD HVSNYRAPKD SEE IDDVTRQ LQEKGGART PSPSLSESSE</p> <p>160 170 180 190 200</p> <p>DEKPTKHHK DKKEKHHK EKEKADREVQ AEQPSSSPR RKTVKEKDDT</p> <p>210 220 230 240 250</p> <p>GPKKHSSKNS ERAQKSEPRE GQKLPKSRTA YSGGAEDLER ELKKEKPKHE</p> <p>260 270 280 290 300</p> <p>HKSSSRREAR EEKTRIRDRG RSSDAHSSWY NGRSEGRSYR SRSRSDKSH</p> <p>310 320</p> <p>RHKRARRSRE RESSNPSDRW RH</p>
<p>BUD13/Cwc26</p>	<p>3</p>	<p>10 20 30 40 50</p> <p>MAAAPLSKA EYLKRYLSGA DAGVDRGSES GRKRRKKRPK PGGAGGKGM</p> <p>60 70 80 90 100</p> <p>IVDDVSWTA ISTTKLEKEE EEDDGDLPVV AEFVDERPEE VKQMEAFRSS</p> <p>110 120 130 140 150</p> <p>AKWKLLGGHN EDLPSNRHFR HDPDSSPRR VRHGTPDPSP RKDRHDPDP</p> <p>160 170 180 190 200</p> <p>SPRRARHDP DPSPLRGARH DSDTSPPRR RHDSSDTSP RRARHDPDP</p> <p>210 220 230 240 250</p> <p>SPPRRPQHNS SGASPRVRH DSPDPSPPR ARHGSSDISS PRRVHNSPD</p> <p>260 270 280 290 300</p> <p>TSRRTLGSST TQQLRRARHD SPDLAPNVTY SLPRTKSGKA PERASSKTSP</p>

		<p>310 320 330 340 350 HWKESGASHL SFPKNSKYEY DPDISPPRKK QAKSHFGDKK QLDSKGDCQK</p> <p>360 370 380 390 400 ATDSLSSPR HKQSPGHQDS DSDLSPRNR PRHRSSDSL SPPRRRQRTK</p> <p>410 420 430 440 450 SSDSLSPR RSQPPGKAA HMYSGAKTGL VLTDIQREQQ ELKEQDQETM</p> <p>460 470 480 490 500 AFEAEFQYAE TVFRDKSGRK RNLKLERLEQ RRKAEKDSEK DELYAQWGKG</p> <p>510 520 530 540 550 LAQSRQQQN VEDAMKEMQK PLARYIDDED LDRMLREQER EGDPMANFTK</p> <p>560 570 580 590 600 KNKAKENKNK KVRPRYSGPA PPPNRFNIWP GYRWDGVDRS NGFEQKRFR</p> <p>610 LASKKAVEEL AYKWSVEDM</p>
PPIL2	4	<p>10 20 30 40 50 MGKRQHOKDK MYITCAEYTH FYGGKKPDLF QTNFRRLPFD HCSLSLQPFV</p> <p>60 70 80 90 100 YPVCTPDGIV FDLLNIVPWL KKYGTNPSNG EKLDGRSLIK LNFSKNSEGG</p> <p>110 120 130 140 150 YHCPVLFTVF TNNTHIVAVR TGNVYAYEA VEQLNIKAKN FRDLLTDEPF</p> <p>160 170 180 190 200 SRQDIITLQD PTNLDFNVS NFYHVKNMK IIDPDEEKAK QDPSYYLKNT</p> <p>210 220 230 240 250 NAETRETLQE LYKEFKGDEI LAATMKAPEK KKVDKLNAAH YSTGKVSASF</p> <p>260 270 280 290 300 TSTAMVPETT HEAAAIDEDV LRYQFVKKKG YVRLHTNKGK LNLELHCDLT</p> <p>310 320 330 340 350 PKTCENFIRL CKKHYYDGTI FHR SIRNFVI QGGDPTGTGT GGESYWGKPF</p> <p>360 370 380 390 400 KDEF RPNLSH TGRGILSMAN SGPNSNRSQF FITFRSCAYL DKKHTIFGRV</p> <p>410 420 430 440 450 VGGFDVLTAM ENVESDPKTD RPKEEIRIDA TTVFVDPYEE ADAQIAQERK</p> <p>460 470 480 490 500 FQLKVAPETK VKSSQPQAGS QGPQTFRQGV GKYINPAATK RAAEEEPSTS</p> <p>510 520 ATVPMSKKKP SRGFGDFSSW</p>

SF3A2/SF3A66	7	<table border="0"> <thead> <tr> <th>10</th> <th>20</th> <th>30</th> <th>40</th> <th>50</th> </tr> </thead> <tbody> <tr> <td colspan="5">MDFQHRPGGK TSGGVSASS ESNRDRRERL RQLALETIDI NKDPYFMKNH</td> </tr> <tr> <td>60</td> <td>70</td> <td>80</td> <td>90</td> <td>100</td> </tr> <tr> <td colspan="5">LGSYECKLCL TLHNNEGSYL AHTQGKKHQT NLARRAAKEA KEAPAQPAPE</td> </tr> <tr> <td>110</td> <td>120</td> <td>130</td> <td>140</td> <td>150</td> </tr> <tr> <td>KVKVEVKKFV</td> <td>KIGRPGYKVT</td> <td>KQRDSEMGQQ</td> <td>SLLFQIDYPE</td> <td>IAEGIMPRHR</td> </tr> <tr> <td>160</td> <td>170</td> <td>180</td> <td>190</td> <td>200</td> </tr> <tr> <td>FMSAYEQRIE</td> <td>PPDRRWQYLL</td> <td>MAAEPYETIA</td> <td>FKVPSREIDK</td> <td>AEGKFWTHWN</td> </tr> <tr> <td>210</td> <td>220</td> <td>230</td> <td>240</td> <td>250</td> </tr> <tr> <td>RETKQFFLQF</td> <td>HFKMEKPPAP</td> <td>PSLPAGPPGV</td> <td>KRPPPPLMNG</td> <td>LPPRPPLPES</td> </tr> <tr> <td>260</td> <td>270</td> <td>280</td> <td>290</td> <td>300</td> </tr> <tr> <td>LPPPPPGLP</td> <td>LPPMPPTGPA</td> <td>PSGPPGPPQL</td> <td>PPPAPGVHPP</td> <td>APVVHPPASG</td> </tr> <tr> <td>310</td> <td>320</td> <td>330</td> <td>340</td> <td>350</td> </tr> <tr> <td>VHPPAPGVHP</td> <td>PAPGVHPPAP</td> <td>GVHPPTSGVH</td> <td>PPAPGVHPPA</td> <td>PGVHPPAPGV</td> </tr> <tr> <td>360</td> <td>370</td> <td>380</td> <td>390</td> <td>400</td> </tr> <tr> <td>HPPAPGVHPP</td> <td>APGVHPPPSA</td> <td>GVHPQAPGVH</td> <td>PAAPAVHPQA</td> <td>PGVHPPAPGM</td> </tr> <tr> <td>410</td> <td>420</td> <td>430</td> <td>440</td> <td>450</td> </tr> <tr> <td>HPQAPGVHPQ</td> <td>PPGVHPSAPG</td> <td>VHPQPPGVHP</td> <td>SNPGVHPPTP</td> <td>MPPMLRPPLP</td> </tr> <tr> <td>460</td> <td colspan="4"></td> </tr> <tr> <td colspan="5">SEGPNIPPP PPTN</td> </tr> </tbody> </table>	10	20	30	40	50	MDFQHRPGGK TSGGVSASS ESNRDRRERL RQLALETIDI NKDPYFMKNH					60	70	80	90	100	LGSYECKLCL TLHNNEGSYL AHTQGKKHQT NLARRAAKEA KEAPAQPAPE					110	120	130	140	150	KVKVEVKKFV	KIGRPGYKVT	KQRDSEMGQQ	SLLFQIDYPE	IAEGIMPRHR	160	170	180	190	200	FMSAYEQRIE	PPDRRWQYLL	MAAEPYETIA	FKVPSREIDK	AEGKFWTHWN	210	220	230	240	250	RETKQFFLQF	HFKMEKPPAP	PSLPAGPPGV	KRPPPPLMNG	LPPRPPLPES	260	270	280	290	300	LPPPPPGLP	LPPMPPTGPA	PSGPPGPPQL	PPPAPGVHPP	APVVHPPASG	310	320	330	340	350	VHPPAPGVHP	PAPGVHPPAP	GVHPPTSGVH	PPAPGVHPPA	PGVHPPAPGV	360	370	380	390	400	HPPAPGVHPP	APGVHPPPSA	GVHPQAPGVH	PAAPAVHPQA	PGVHPPAPGM	410	420	430	440	450	HPQAPGVHPQ	PPGVHPSAPG	VHPQPPGVHP	SNPGVHPPTP	MPPMLRPPLP	460					SEGPNIPPP PPTN				
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SF3B2/SF3B145

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10	20	30	40	50
MATEHPEPPK	AELQLPPPPP	PGHYGAWAAQ	ELQAKLAEIG	APIQGNREEL
60	70	80	90	100
VERLQSYTRQ	TGIVLNRPVL	RGEDGDKAAP	PPMSAQLPGI	PMPPPPLGLP
110	120	130	140	150
PLQPPPPPPP	PPPGLGLGFP	MAHPPNLGPP	PPLRVGEPVA	LSEEEERLKLA
160	170	180	190	200
QQQAALLMQQ	EERAKQOGDH	SLKEHELLEQ	QKRAAVLLEQ	ERQQEIAKMG
210	220	230	240	250
TPVPRPPQDM	GQIGVRTPLG	PRVAAPVGPV	GPTPTVLEPMG	APVPRPRGPP
260	270	280	290	300
PPPGDENREM	DDPSVGPKIP	QALEKILQLK	ESRQEEMNSQ	QEEEEEMETDA
310	320	330	340	350
RSSLGQSASE	TEEDTVSVSK	KEKNRKRNR	KKKKKPQVRV	GVSSSESSGDR
360	370	380	390	400
EKDSTRSRGS	DSPAADVEIE	YVTEEPEIYE	PNFIFFKRIF	EAFKLTDVVK
410	420	430	440	450
KEKEKEPEKL	DKLENSAAPK	KKGFEEHDKD	SDDSSSDEEQ	EKKPEAPKLS
460	470	480	490	500
KKKLRM	NRF TVAELKQLVA	RPDVVEMHDV	TAQDPKLLVH	LKATRNSVPV
510	520	530	540	550
PRHWCFKRKY	LOGKRGIEKP	PFELPDFIKR	TGIQEMREAL	QEKEEQKTMK
560	570	580	590	600
SKMREKVRPK	MGKIDIDYQK	LHDAFFKWOT	KPKLTIHGDL	YYEGKEFETR
610	620	630	640	650
LKEKKPGDLS	DELRLSLGMP	VGPNNAHKVPP	PWLIAMQRYG	PPPSYPNLKI
660	670	680	690	700
PGLNSPIPES	CSFGYHAGGW	GKPPVDETGK	PLYGDVFGTN	AAEFQTKTEE
710	720	730	740	750
EEIDRTPWGE	LEPSDEESSE	EEEEESDED	KPDETGFITP	ADSGLITPGG
760	770	780	790	800
FSSVPAGMET	PELIELRKKK	IEEAMDGSET	PQLFTVLEPEK	RTATVGGAMM
810	820	830	840	850
GSTHIYDMST	VMSRKGPAP	LQGVEVALAP	ELELDPMAM	TQKYEHEVRE
860	870	880	890	
QQAQVEKEDF	SDMVAEHAAK	QKQKKRKAQP	QDSRGGSKKY	KEFKF

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