

		10	20	30	40	50	60	70	80	
YCK1	1	.	YKIGKKIGECSFGVLFEGTNMIN.	.	.	.	.	.	.	23
YCK2	1	.	YKIGKKIGECSFGVLFEGTNMIN.	.	.	.	.	.	.	23
YCK3	1	.	YAVGPKIGECSFGVIFEGENILHSCQAQTGSKRDS.	.	I.	.	.	.	.	37
HRR25	1	.	FRIGRKIGSGSGFGDHYHGHTNLIS.	.	.	.	.	.	.	23
PRK1	1	.	HHAKIICKYLTSGGFAQVYTAEISPPD.	.	.	.	.	.	.	26
ARK1	1	.	HQVEIIKYLTSGCGFAQVYSALINPPD.	.	.	.	.	.	.	26
YBR059C	1	.	VEVVNYLAEGGFAQIYVVVKFLEYLNEFDNTASV.	.	.	.	.	.	.	33
FUS3	1	.	FQLKSSLGEGAYGVVCSATHKPTG.	.	.	.	.	.	.	24
HOG1	1	.	YNDLNPVGMCAGFLVCSATDTLTS.	.	.	.	.	.	.	24
SLT2	1	.	FOLIKEIGHGAYGIVCSRFAEAAAE.	.	.	.	.	.	.	25
YKL161C	1	.	FHLTGKIGRGSHSLLCSTSSTYESNE.	.	.	.	.	.	.	25
CDC28	1	.	YKRLEKVGECTYGVVKALDLRPGQ.	.	.	.	.	.	.	25
PHO85	1	.	FKQLEKLGNGYATVYKGLNKTG.	.	.	.	.	.	.	24
KIN28	1	.	YTKEKKVGECTYAVVYLGQCQHSTG.	.	.	.	.	.	.	24
CTK1	1	.	YLIRMQVGECTYGVVKVYKAK.	.	.	.	.	.	.	19
SSN3	1	.	YEVIGYIAACTYGVVKAKRQINSGTNSANGSSLNGTNAKIPQFDSTQPKSSSSMDMQANTNALRRNLLDE	.	.	.	.	.	.	72
MRK1	1	.	YPTTEVVCHGSFGVVVTTVIET.	.	.	.	.	.	.	23
RIM11	1	.	YPTTEVVCHGSFGVVVFATVIQET.	.	.	.	.	.	.	23
YOL128C	1	.	VREGKRIIGHGSFGTVTQSILSSNSI.	.	.	.	.	.	.	25
FUN31	1	.	FVSLQKMGEAYGVVNLCIHKK.	.	.	.	.	.	.	22
YOL045W	1	.	FTILQVMGEAYGVVNLCIHN.	.	.	.	.	.	.	22
PAK1	1	.	YEIIKELGHGQHGKVVKLARDIL.	.	.	.	.	.	.	22
YGL179C	1	.	FEILATLCLCQYGVVKLARDLG.	.	.	.	.	.	.	22
SCH9	1	.	FEVRLRLLGKCTFGQVYQVKKKD.	.	.	.	.	.	.	22
YPK2	1	.	FDLLKVIIGKGSFGKVMQVRKKD.	.	.	.	.	.	.	22
CBK1	1	.	EDFHTVKVIGKGAPEVRLVQKKD.	.	.	.	.	.	.	24
YNR047W	1	.	FEKIRLLCQGDVGKVFLVREKK.	.	.	.	.	.	.	22
SRA3	1	.	FQILRTLGTGSFGRVHLIRSRH.	.	.	.	.	.	.	22
TPK3	1	.	SDFQILRTLGTGSFGRVHLIRSNH.	.	.	.	.	.	.	24
PKA3	1	.	HDFQIMRTLGTGSFGRVHLVRSSVH.	.	.	.	.	.	.	24
PCK1	1	.	DNFVLLKVLGKCNFGKVLISKSKN.	.	.	.	.	.	.	24
YBR028C	1	.	FKPVRVLCQGAYGVLLVKDVN.	.	.	.	.	.	.	22
DBF2	1	.	FEMITQVQGCGYQGVYLARKKD.	.	.	.	.	.	.	22
DBF20	1	.	FQILTQVQGCGYQGVYLAKKKD.	.	.	.	.	.	.	22
PKH1	1	.	KDFKFGEQLGDGSYSSVVLATARD.	.	.	.	.	.	.	24
PKH2	1	.	KDFKFGSVIGDCAYSTMVLATSID.	.	.	.	.	.	.	24
YDR466W	1	.	HDFIFKEELGHGSYSTVFKALDKK.	.	.	.	.	.	.	24
IPL1	1	.	FELGKKGKCKFGKVYCVRHRS.	.	.	.	.	.	.	22
YCL024W	1	.	WKLGETLGFGSTGKVQLAQHER.	.	.	.	.	.	.	22
GIN4	1	.	WKLGETLGLGSTGKVQLARNGS.	.	.	.	.	.	.	22
HSL1	1	.	GPWKLKGTLGKGSSGRVRLAKNME.	.	.	.	.	.	.	24
KIN4	1	.	YIIGSTLGEGEFGKVVLGWTK.	.	.	.	.	.	.	21
YPL141C	1	.	GPIYILGSTLGECEFGKVVLGWPKN.	.	.	.	.	.	.	24
KIN1	1	.	EFTVETVGAGSMGKVVKLAKHR.	.	.	.	.	.	.	20
KIN2	1	.	WEFLETVGAGSMGKVVKLVKHR.	.	.	.	.	.	.	21
APG1	1	.	YTAEKEIGKGSFATVYRGLHTS.	.	.	.	.	.	.	22
CDC5	1	.	YHRGHFLGECGGFARCFQ..IKD.	.	.	.	.	.	.	20
CMK1	1	.	YVFGKTLGAGTFGVVRQAKNTE.	.	.	.	.	.	.	22
CMK2	1	.	YIFGRTLGAAGSFGVVRQARKLS.	.	.	.	.	.	.	22
MEK1	1	.	EITNRIVCNGNTFGHVVLITHNSK.	.	.	.	.	.	.	22
DUN1	1	.	YLLGKEELGAGCHYALVKEAKNKK.	.	.	.	.	.	.	22
RCK1	1	.	YKLLNKIGECAFSSRVFKAVGIN.	.	.	.	.	.	.	22
RCK2	1	.	YKLINKIGECAFSSKVFRAPAKNSSNEFL.	.	.	.	.	.	.	29
RAD53	1	.	SIIDEVVCGQAFATVKKAIERT.	.	.	.	.	.	.	22
KIN3	1	.	YQVLEEIGRGSFGSVRKVIHPTK.	.	.	.	.	.	.	24
CDC15	1	.	YHLKQVICRGGSYGVVYKAINKHTD.	.	.	.	.	.	.	24
STE7	1	.	LVQLGKIGACNSGTWVKALHVPDS.	.	.	.	.	.	.	24
PBS2	1	.	LEFLDELGHGNYGNVSKVLUHKPTN.	.	.	.	.	.	.	24
MKK1	1	.	IETLGLILGEGAGGSVSKCKLKNGK.	.	.	.	.	.	.	24
MKK2	1	.	ITTLGILGECAAGGSVAKCRLKNGK.	.	.	.	.	.	.	24
SPS1	1	.	YSIQSCIGRCNFQDVYKAVDRVTO.	.	.	.	.	.	.	24
NRK1	1	.	FKRTEVIGRCKFGVVYKGYNVKTG.	.	.	.	.	.	.	24
CLA4	1	.	FKVIEKAGQCAGSFSYLAERTHIPTESNMIELINND.	.	.	.	.	.	.	36
SKM1	1	.	FQLVEKAQGQCASGAVYLSKRIKLPQENDPRFLKS.	.	.	.	.	.	.	34
STE20	1	.	YANLVKIGQGAGGGVYTAYEIGTN..VS.	.	.	.	.	.	.	26
SSK22	1	.	WQKRSFIGGGCTFGQVYSAINLENG.	.	.	.	.	.	.	24
SSK2	1	.	WQKRNFIGGGCTFGRVSAYVLDNG.	.	.	.	.	.	.	24
BCK1	1	.	WMKGEMIIGKGSFGAVYLCLNVTG.	.	.	.	.	.	.	24
STE11	1	.	WLKGACIIGSCSFSGSYLGMNAHTG.	.	.	.	.	.	.	24
HAL5	1	.	GKSIGVVGAGAYGVVKICARCKTAKDVLPYSTYS.	.	.	.	.	.	.	34
YKL168C	1	.	GHPVGLVGACAYGEVKLCARLRNEKDSSPFETYH.	.	.	.	.	.	.	34
NPR1	1	.	IKTGAIDLGAAGGSVVKLAQRISDNK.	.	.	.	.	.	.	25
YDL214C	1	.	KYRDLDVVLGEGSGGKVVKLVRQLVDNK.	.	.	.	.	.	.	27
YDL025C	1	.	KYGIPGRKLGECAFSSVSVVER.TDGK.	.	.	.	.	.	.	26
YOR267C	1	.	KYKGKLGKLLGSGACGSVKVLVRPTDGA.	.	.	.	.	.	.	27
PTK2	1	.	TDTNKPIGGSSEVRKVKSYYRQKD.	.	.	.	.	.	.	26
PTK1	1	.	DDENKTIGWGGSCEVVRKIRSKYRKKD.	.	.	.	.	.	.	26
SKS1	1	.	FRITAQIGSCGAYGLVFHVVDILTSREYAVKTVFK.	.	.	.	.	.	.	34
YDR247W	1	.	NNYLITSQIGECAFGLVYRALDIRTDQYAIKAVVQ.	.	.	.	.	.	.	36
ELM1	1	.	YTLGVSAQSCQFCYVRKAYSSTLG.	.	.	.	.	.	.	24
CHK1	1	.	KDVLVLGDTVGQGAFACVKNAHLQMDP.	.	.	.	.	.	.	26
YAK1	1	.	YLVLDILGQGCTFGQVVKCQNLTT.	.	.	.	.	.	.	23
SKY1	1	.	YILVRKLGWGHSTVWLAKDMVN.	.	.	.	.	.	.	23
KNS1	1	.	FVVKDLLLQGCTFGKVLKCIDNKYEP.	.	.	.	.	.	.	25
YMR291W	1	.	YVTNHSNSLEDGNGFSVVKCMIHT.	.	.	.	.	.	.	24
MPS1	1	.	YEKIELLGRRGSSRVYKVKGS.	.	.	.	.	.	.	22
KSP1	1	.	YQKIEDISEGGSYGVVSLAKDVRE.	.	.	.	.	.	.	23
IME2	1	.	YOLIEKLGACGSGFCVTLAKAQFPLSN.	.	.	.	.	.	.	26
YKL171W	1	.	HRLGKIIIGCFAGAWGIYRECFCIETG.	.	.	.	.	.	.	24
YGR052W	1	.	YTKLRSIQSCTFSTVYKAWSTTHN.	.	.	.	.	.	.	24

CKA1	1	.....YEIENKVGRGKYSEVFQGVKLDs.....	23
CDC7	1	.....YKLIDKIGECGTFSSVYKAKDITGKITKKFASHFWN.....	35
YKL116C	1	.....WKKVRPNCNFSTVLLYELMDQSN.....	25
IRE1	1	.....VVSEKILGYGSSGTVVVFQGSFQ.....	22
SWE1	1	.....FTNVHSIGKQGFSVTVQVTFAQTN.....	24
IKS1	1	.....FKILSLLGNGARGSVYKVVHTIGN.....	24
VPS15	1	.....VHYVSQLNSSRFLKTCKALDPN.....	22
CAK1	1	.....MKLDSIDITHCQLVKSTRTARIYR.....	24
BUB1	1	.....YCIRGEGLGEGGYATVYLAESSQ.....	22
YGR262C	1	.....MTQEFIDKVSSYLTDPVDIAPISQG.....	25
SLN1	1	.....QYCGTGLGLSICRQLAN.....	17
CTK2	1	.....MPSTFESQLFFSRPFLSKRQIQRAQNTISDYRN.....	34
CTK3	1	.....MDSLEARLQFIOVVLKNLQKTLHKTR.....	25
YGL059W	1	MSKYQINCIRYRHFLRTSNISQIYPDFTKYCIGPVNEELAPYIMETMKAYPSNSEYINPQHYYHN.....RTVLVEN.	71
YIL042C	1	.....MWKIMRSRWSWCQGMRWAHRQRPSHELLSQLSFLDQHYKIRSN.....	40
MEC1	1	.....EDVRQDNQYMQFATTMDFLLSKDIASR.....	27
DBF4	1	.....YMKVWSYKEAARFLKNLDVDDHLS.....	25
MRK1	1	.....YPTTEVVCHGSGFGVVVTTVIET.....	23
RIM11	1	.....FPTTEVVCHGSGFGVVVFATVIQET.....	23
YOL128C	1	.....VREGKRIIGHGSGFGTVTQSILSSNSI.....	25
FUN31	1	.....FVSLQKMGECAYGKVNLCIHKK.....	22
YOL045W	1	.....FTILQVMGECAYGKVNLCIHN.R.....	22
PAK1	1	.....YEIIKELGHGQHGKVVKLARDIL.....	22
YGL179C	1	.....FEILATLGENQYGVVKLARDLG.....	22
SCH9	1	.....FEVLRLLGKCTFGQVYQVKKKD.....	22
YPK2	1	.....FDLLKVIIGKGSFGKVMQVRKKD.....	22
CBK1	1	.....EDFHTVKVIGKGCAGFGEVRLVQKKD.....	24
YNR047W	1	.....FEKIRLLGQGDVGKVFLVREKK.....	22
SRA3	1	.....FQILRTLGTGSFGRVHLIRS.RH.....	22
TPK3	1	.....SDFQILRTLGTGSFGRVHLIRS.NH.....	24
PKA3	1	.....HDFQIMRTLGTGSFGRVHLVRSS.VH.....	24
PCK1	1	.....DNFVLLKVLGKCNFGKVLISKSKN.....	24
YBR028C	1	.....FKPVRVLCQGCAYGKVLVVDVN.....	22
DBF2	1	.....FEMITQVQGQGGYQGVYLARKKD.....	22
DBF20	1	.....FQILTQVQGQGGYQGVYLAKKKD.....	22
PKH1	1	.....KDFKFGEQLGDGSYSSVVLATARD.....	24
PKH2	1	.....KDFKFGGSVIGDCAYSTVMLATSID.....	24
YDR466W	1	.....HDFIFKEELGHGSYSTVFKALDKK.....	24
IPL1	1	.....FELGKKLKGKCFGKVICVRHRS.....	22
YCL024W	1	.....WKLGETLGFGSTGKVQLAQHER.....	22
GIN4	1	.....WKLGETLGLGSTGKVQLARNGS.....	22
HSL1	1	.....GPWKLKGTLGKGSSGRVRLAKNME.....	24
KIN4	1	.....YIIGSTLGEGEFVGKVVLGWTK.....	21
YPL141C	1	.....GPYILGSTLGECEFGKVVLGWPKN.....	24
KIN1	1	.....EFVETVGAGSMGKVVKLAKHR.....	20
KIN2	1	.....WEFLETVGAGSMGKVVKLVHR.....	21
APG1	1	.....YTAEKEIGKGSFATVYRGH LTS.....	22
CDC5	1	.....YHRGHFLGEGFARCFQ..IKD.....	20
CMK1	1	.....YVFGKTLGAGTFGVVRQAKNTE.....	22
CMK2	1	.....YIFGRTLGAASFVGVVRQARKLS.....	22
MEK1	1	.....EITNRIVCGNGTFGHVLITHNSK.....	22
DUN1	1	.....YLLGKEELGAGHYALVKEAKNKK.....	22
RCK1	1	.....YKLLNKIGECAFSSRVFKAVGIN.....	22
RCK2	1	.....YKLINKIGECAFSSKVFRAIPAKNNSNEFL.....	29
RAD53	1	.....SIIDEVVCGQAFATVKKAIERT.....	22
KIN3	1	.....YQVLEEIGRGSFSGSVRKVIHPTK.....	24
CDC15	1	.....YHLKQVICRGGSYGVVYKAINKHTD.....	24
STE7	1	.....LVQLGKIGACNSGTWVKALHVPDS.....	24
PBS2	1	.....LEFLDELGHGNVGNVSKVLHKPTN.....	24
MKK1	1	.....IETLGLILGEAGGSVSKCKLKNGS.....	24
MKK2	1	.....ITTLGILGEAGGSVAKCRLKNGK.....	24
SPS1	1	.....YSIQSCIGRCNFQDVYKAVDRVQT.....	24
NRK1	1	.....FKRTEVIGRCKFGVVYKGYNVKTG.....	24
CLA4	1	.....FKVIEKAGQCAGSFSVYLAERTHIPTESNMIELINND.....	36
SKM1	1	.....FQLVEKAQGQGASGAVYLSKRIKLPQENDPRFLKS.....	34
STE20	1	.....YANLVKIGQGASGGVYTAYEIGTN.....VS.....	26
SSK22	1	.....WQKRSFIGGGCTFQGVYSAINLENG.....	24
SSK2	1	.....WQKRNFFIGGCTFGRVYSAVLDLNG.....	24
BCK1	1	.....WMKGEMIIGKGSFGAVYLCLNVTG.....	24
STE11	1	.....WLKGACIIGCSGFSGVYLGMAHTG.....	24
HAL5	1	.....GKSIGVVGAGAYGVVVICARCKTAKDVLVYSTYS.....	34
YKL168C	1	.....GHPVGLVGACGAYGEVKLCARLRNEKDSSPFETYH.....	34
NPR1	1	.....IKTGAIDLGAAGGSVVKLAQRISDNK.....	25
YDL214C	1	.....KYRDLDDVVLGEGSGGKVVKLVRQLVLDNK.....	27
YDL025C	1	.....KYGIPGRKLGECAFSSVSVVER.TDGK.....	26
YOR267C	1	.....KYGKLKGKLLGSGACGSVKVLVRPTDGA.....	27
PTK2	1	.....DTDNKPIGCGGSSEVRKVKSYYRQKD.....	26
PTK1	1	.....DDENTKIGWGGSCEVVRKIRSKYRKKD.....	26
SKS1	1	.....FRITAQIGSAYGLVFHVVDILTSREYAVKTVFK.....	34
YDR247W	1	.....NNYLITSQIGECAYGGLVYRALDIRTDQYAIKAVVQ.....	36
ELM1	1	.....YTLGVSAQSGQFCYVRKAYSSTLG.....	24
CHK1	1	.....KDVVLGDTVGQGAFACVVKNAHLQMDP.....	26
YAK1	1	.....YLVLDILGQGCTFGQVVKCQNLLT.....	23
SKY1	1	.....YILVRKLCGWGHSTVWLAKDMVN.....	23
KNS1	1	.....FVVKDILLGQGCTFGKVLKCIDNKYEP.....	25
YMR291W	1	.....YVTNHSNLEDGNGFSVVKCMIH.T.....	24
MPS1	1	.....YEKIELLGRGGSSRVYKVKGSG.....	22
KSP1	1	.....YQKIEDISEGSVYGVVSLAKDVRE.....	23
IME2	1	.....YQLIKEKLGACGSFGCVTLAKAQFPLSN.....	26
YKL171W	1	.....HRLGKIIIGFCAWGIIYRECFCIETG.....	24
YGR052W	1	.....YTKLRSIQSCTFSTVYKAWSTTHN.....	24

	90.....	100.....110.....120.....130.....140.....150.....160	23
YCK1	23	.GVPVAIKFEPRK.....		TE 37
YCK2	23	.GLPVAIKFEPRK.....		TE 37
YCK3	37	.IMANEPVAIKFEPRH.....		SD 54
HRR25	23	.GEEVAIKLESIR.....		SR 37
PRK1	26	.PYSANANIACLKRVIVPHKQG.....		46
ARK1	26	.PHSNSSVACLKRVIVPDKPS.....		46
YBR059C	33	.PLKIGDVACLKRVLVQDENG.....		53
FUS3	24	.EIVAIKVIIEP.....	FDKP	LF 40
HOG1	24	.QPVIAIKKIMKP.....	FSTA	VL 41
SLT2	25	.DTTVAIKKVTVN.....	FSKT	LL 43
YKL161C	25	.ETHVAIKRPNA.....	FGNK	LS 43
CDC28	25	.G....QRVVALKK.....IR	LESEDE	GV 44
PHO85	24	.VYVVALKE.....VK	LDSE.E.....	GT 40
KIN28	24	.RKIAIKE.....IK	TSEFKD	GL 41
CTK1	19	.NTNTEKLVALKK.....LR	LQGERE	GF 41
SSN3	73	.GVTPGRI RTTREDVS PHYNS QKTLI KPLTVFYAIKK.....	FKTEKDGV EQLHYTGI	126
MRK1	23	.NQKVAIKK.....	VIQD	35
RIM11	23	.NEKVAIKK.....	VLQD	35
YOL128C	25	.EWLGPYAIKRIK.....	VVKS	39
FUN31	22	.NRYIVV IKMIFKERILV.....	DTWVRDRK	47
YOL045W	22	.EHYIVV IKMIFKERILV.....	DTWVRDRK	47
PAK1	22	.SKQLVA IAIKV D RHEKKQ.....	RKFFTIFIKSSKISE	53
YGL179C	22	.TGALVA IAIKILNRFEKRS.....	GYSQLK ..VE.	48
SCH9	22	.T.QRIYAMKVL SK.....	KVIVKKNE	42
YPK2	22	.T.QKIYALKALRK.....	AYIVSKCE	42
CBK1	24	.T.GKIYAMKTL LK.....	SEMYKKDQ	44
YNR047W	22	.T.NRVYALKVL SK.....	DEMIRKNK	42
SRA3	22	.N.GRYYAMKVL LKK.....	EIVVRLKQ	42
TPK3	24	.N.GRFYALKT LKK.....	HTIVKLKQ	44
PKA3	24	.N.GRYYAIKVL LKK.....	QQVVKMKQ	44
PCK1	24	.T.DRLCA IAIKV LKK.....	DNIIQNHD	44
YBR028C	22	.T.SKLYAMKQL RK.....	AEILISQT	42
DBF2	22	.T.KEVCALKILNK.....	KLLFKLNE	42
DBF20	22	.S.DEICALKILNK.....	KLLFKLNE	42
PKH1	24	.S.GKKYAVKVLSK.....	EYLIRQKK	44
PKH2	24	.T.KKRYAAKVL N K.....	EYLIRQKK	44
YDR466W	24	.SPNKIYAIKVC SK.....	KHIKEAK	45
IPL1	22	.T.GYICALKVMEK.....	EIIIKYNL	42
YCL024W	22	.TGHRTAVKV VSK.....	SIFNNNGN	HSNDDSVL 50
GIN4	22	.TGQEEAVKV VSK.....	AVFTGNVSGTSIV ..GSTDPA	56
HSL1	24	.TGQLAA IAIKIVPKKAFVHCSNNGTVPN SYSSMVTSNVSSPSIASREHSNHSQTN	79	
KIN4	21	.ASSNEVPK.....	QVAIKLIRR.D..TIKKDADK	48
YPL141C	24	.FSNSSN STFD FPK.....	QVAIKLIRK.D..SISNDYRK	55
KIN1	20	.YTNEVC AVKIVVNR.....	ATKAFLHKEQMLPPPQNEQDVLERQK KLEKEISR	67
KIN2	21	.QTKEICV IAIKIVN R.....	ASKAYLHKQHSLPSPKN ESEILERQRKR LEKEIAR	68
APG1	22	.DKSQHV A IAIKVESRAK LKN K	L ..43	
CDC5	20	.DSGEIFIAAKTV IAKASIKSEK	T ..41	
CMK1	22	.TGEDVA IAIKVILKKALKG NKVQL	44	
CMK2	22	.TNEDVA IAIKILKKALQGN NVQL	44	
MEK1	22	.ERDEDVC YH PENYAVK II KLP	44	
DUN1	22	.TGQQVA IAIKIV F H AQQND QKK N	43	
RCK1	22	.TDDQAPVA IAI K IAI KKG ISS	A ILKGNDRIQGS 55	
RCK2	29	.TKNYKAV IAI K V IAI KKA DL S SING DHR	KKDKGDSTKTTSS 67	
RAD53	22	.TG.KTFA IAI KV IIS KRKVIGN	40	
KIN3	24	.KLLVRKD I KYG HM NSKE	41	
CDC15	24	.QVVA IAI KEV VY ..EN DEE	39	
STE7	24	.KIV AAI K TIP V E QNN S T I	41	
PBS2	24	.VIMATKEV RLE LDEAKF	41	
MKK1	24	.K IF A LK V INT L N T D PEY	41	
MKK2	24	.K VF A L K T I NT M N T D PEY	41	
SPS1	24	.EIV A I AI KV V N L E .H S D E D	40	
NRK1	24	.RVY A I AI KV V N L D .S D S D E	40	
CLA4	36	.IDE PHVGDKV A I K QM VL S .K Q P R	58	
SKM1	34	.HCHR VVG E R V A I K QIR L S .E Q P K	56	
STE20	26	.V A I K QM N L E .K Q P K	39	
SSK22	24	.E I L A I V K E I I K I H D T T T	MKKI 43	
SSK2	24	.E I L A I V K E I I N I Q D S K S	43	
BCK1	24	.EMMAV K Q V E V K Y S S	47	
STE11	24	.ELMAV K Q V E I K N N N I G V P T D N N Q A N S D E N N E Q E E Q Q E K I E D V G A V S H P K T N Q N I H R K M	83	
HAL5	34	.NGKLFF A V K E L K P K P G D	QIDKF 57	
YKL168C	34	.DSKYI YY AV K E L K P K P D S	DLEKF 57	
NPR1	25	.I FA V K E F R T K F E N E S	KRDY 44	
YDL214C	27	.V F A L K E Y R S K K K R E S	ER KY 46	
YDL025C	26	.L FACK M F R K P H L N N E G	T.NQS Q L A N Y 51	
YOR267C	27	.T F A V K E F R P R K P N .E	S...VKEY 46	
PTK2	26	.VY A L K K L N M I Y H E	SPEKF 44	
PTK1	26	.V F A L K K L N M I Y N E	TPEKF 44	
SKS1	34	.SSS ..MDEF Y N K G N L N N N S Q V	A.RTLLQTQ 62	
YDR247W	36	.S ..Y G V S K E A D M G N D K I H	K.NSVKLQKK 61	
ELM1	24	.KVV A V K I I P K K P W N A Q Q Y S V N	QVMR QIQLWKS KG KIT TNMSG NE A RLMN 74	
CHK1	26	.S II L A V K F I H V P T C K K M G	LS 46	
YAK1	23	.KEIL A V K V V K S R	TEY 38	
SKY1	23	.NTHV A M K I V R G D ..K	VY 38	
KNS1	25	.NYV A V K V I R A V D R	Y 39	
YMR291W	24	.KDL Y A M K L I K K Q T V K N	K 41	
MPS1	22	.NRVY AL K RV S F D A F D D S S	40	
KSP1	23	.KRLV A V K Y I I F K L E D D G Q Y D G P Q D D E N C D S S D C D D E D T K V D T D R H E N E N G N A S S N N G S S	83	
IME2	26	.I LGK QH D I R G T L M D Q P K N	GH QN YI T K T Q G V V A 58	
YKL171W	24	.V G R V I K V F K G H Q N	40	
YGR052W	24	.R Y V A L K I T P K Y K T S	38	

CKA1	23	.....KVKIVIKM ^L KPVKKKKIKR.....	EIKILTDLSNEKVPPPTL ^P FQKD	65
CDC7	35	....YSNYV ^A LKKIYVTS.S.....	VEQINTSLRYKETLSRL	51
YKL116C	25	....PKLQVA ^A VKR ^L KYPEELSN.	.....F	35
IRE1	22	....GRPVA ^A VKRMLID.....	.....S	39
SWE1	24	....KKYAIKA ^I KA ^I KPNKYN.	....DMEW	43
IKS1	24	....TELGVF ^A LKKIPIG..N.	....YS	38
VPS15	22	....GEIVIKV ^A FIKPKDQ.	.....	40
CAK1	24	....SDTYAIK ^C LALDFDIP.	.....	40
BUB1	22	....GHLRA ^L KVEKPAS.....	....VW	37
YGR262C	25	....AEAIVFTTTHPYLPR.	.....	41
SLN1	17	....MMH ^G TMKLES.....	....	27
CTK2	34	....YNQKKLAVFKFLSDLCVQLKFP ^R .	KTLETAVYYFYQRYHL	72
CTK3	25	....DSIT ^S SSTTPPSS.....	.....	39
YGL059W	71	....YLKRSPNPV ^S L ^T QLAQYYDDSTKLTR.	....TKIINSGKFVKEEL	111
YIL042C	40	....IELLIQDY ^A SKP ^I APLNYEYFLQYR.	....PPLTKKEEYMLTIKTINLL	84
MEC1	27	....KRSLG ^I N ^I Y ^S.....	.....	37
DBF4	25	....KTKSASLA ^A APT ^L SNLLHNEKLYG.	....PT	50
MRK1	23	....NQKVA ^A IKK.	....VIQD	35
RIM11	23	....NEKVA ^A IKK.	....VLQD	35
YOL128C	25	....EWLGPY ^A IKR.	....VVKS	39
FUN31	22	....NRYIVV ^A IKM ^I IFKERILV	....DTWVRDRK	47
YOL045W	22	....EHYIVV ^A IKM ^I IFKERILV	....DTWVRDRK	47
PAK1	22	....SKQLVA ^A IKIVDRHEKKQ.	....RKFFTIFIKSSKISE	53
YGL179C	22	....TGALVA ^A IKILNRFERKRS	....GYSQLK.....VE.	48
SCH9	22	....T.QRIY ^A MKVLSK.	....KVIVKKNE	42
YPK2	22	....T.QKIY ^A L ^K ALKALRK.	....AYIVSKCE	42
CBK1	24	....T.GKIY ^A MKTLLK.	....SEMYKKDQ	44
YNR047W	22	....T.NRVY ^A LKVLSK.	....DEMIKRNK	42
SRA3	22	....N.GRYY ^A MKV ^L KK.	....EIVVRLKQ	42
TPK3	24	....N.GRFY ^A LKT ^L KK.	....HTIVKLKQ	44
PKA3	24	....N.GRYY ^A IKV ^L KK.	....QQVVKM ^K Q	44
PCK1	24	....T.DRLCA ^A IKV ^L KK.	....DNIIQNHD	44
YBR028C	22	....T.SKLY ^A MKQ ^L LRK.	....AEILISQT	42
DBF2	22	....T.KEVC ^A LKILNK.	....KLLFKLN ^E	42
DBF20	22	....S.DEIC ^A LKILNK.	....KLLFKLN ^E	42
PKH1	24	....S.GKKY ^A V ^K VLSK.	....EYLIRQKK	44
PKH2	24	....T.KKRY ^A AKV ^L NK.	....EYLIRQKK	44
YDR466W	24	....SPNKIYA ^A IKVCSK.	....KHIKEAK	45
IPL1	22	....T.GYIC ^A ALKVMEK.	....EEIIKYNL	42
YCL024W	22	....TGHRTA ^A V ^K VISK.	....SIFNNNGN.....HSNDDSVL	50
GIN4	22	....TGQEAA ^A V ^K VISK.	....AVFTNGNVSGTSIV.....GSTTPDAL	56
HSL1	24	....TGQLAA ^A IKIVPKKKAFVHCNSNNGTV ^P NSYSSSMVTSNVSSPSIASREHSNHSQTN	....	79
KIN4	21	....AS ^S NEV ^P K.	....QVAIKLIRR.D....TIKKDADK	48
YPL141C	24	....FSNSSN ^S TFDFPK.	....QVAIKLIRK.D....SISNDYRK	55
KIN1	20	....YTNEVC ^A V ^K IVNR.	....ATKAFLHKEQMLPPPKNEDQVLERQK ^K LEKEISR	67
KIN2	21	....QTKEIC ^V IKV ^I INVR.	....ASKAYLHKQHSLPSPKNESEILERQKR ^K LEKEIAR	68
APG1	22	....DKSQHV ^A IK ^V EV ^V SR ^A KL ^L KNK.	....L	43
CDC5	20	....DSGEIF ^A AKT ^V AKASAK ^I SEK.	....T	41
CMK1	22	....TGEDV ^A V ^K IL ^I LIK ^K ALKGNK ^V Q ^L.	.....	44
CMK2	22	....TNEDV ^A IK ^I IL ^I LKKALQGN ^N V ^Q L.	.....	44
MEK1	22	....ERDEDV ^C YH ^P EN ^Y AV ^K I ^I KL ^K P.	.....	44
DUN1	22	....TGQQV ^A V ^K I ^I FHAQ ^Q NDQ ^K KN.	.....	43
RCK1	22	....TDDQAPVA ^A IK ^I AI ^I IKKG ^I SSD.	....AILKGNDRIQGSS	55
RCK2	29	....TKNYKAV ^A IK ^I V ^I KKADLSSINGDHR.	....KKDKGDSTKTSS	67
RAD53	22	....TG.KTFA ^V KIISKRKVIGN.	.....	40
KIN3	24	....KLLVRKD ^I KYGHMNSKE.	.....	41
CDC15	24	....QVVA ^I KEVVY..ENDEE.	.....	39
STE7	24	....KIV ^A KK ^I IP ^V EQNNSTI.	.....	41
PBS2	24	....VIMATKEV ^R LELDEAKF.	.....	41
MKK1	24	....KIF ^A L ^K V ^I NTLNTDPEY.	.....	41
MKK2	24	....KVFA ^L K ^I NTMTDPEY.	.....	41
SPS1	24	....EIV ^A IKV ^N L ^E .HSDED.	.....	40
NRK1	24	....RVY ^A IKV ^L NLD.SDSDE.	.....	40
CLA4	36	....IDEPHVGDKV ^A IKQMV ^L S.KQPR.	.....	58
SKM1	34	....HCHR ^V VGERV ^A IKQIR ^L S.EQPK.	.....	56
STE20	26	....VAIKQMN ^L E.KQPK.	.....	39
SSK22	24	....EILA ^V KE ^I KIHDTTT.	....MKKI	43
SSK2	24	....EILA ^V KE ^I NIQDSKS.	....MQKI	43
BCK1	24	....EMMA ^V KQ ^V EV ^V PKYSS.	....QNEAILST.	47
STE11	24	....ELMA ^V KQ ^V EV ^V IKNNNIGVPTDNNQANSDENNEQEEQQEKIEDVGAVSHPKTNQNIHRKM	....	83
HAL5	34	....NGKLFFA ^V KEL ^L KPKPGD.	....QIDKF	57
YKL168C	34	....DSKYIYYY ^A V ^K EL ^L KPKPD ^S.	....DLEKF	57
NPR1	25	....IA ^V K ^E FR ^T KFENES.	....KRDY	44
YDL214C	27	....VF ^A KEY ^R SR ^S KKRES.	....ERKY	46
YDL025C	26	....LFACKMFRKPHLNNEG.	....T.NSQLANY	51
YOR267C	27	....TFA ^V K ^E FR ^R PKP ^N .E.	....S...VKEY	46
PTK2	26	....VY ^A L ^K KLN ^M YI ^H E.	....SPEKF	44
PTK1	26	....VF ^A L ^K KLN ^M YI ^H NE.	....TPEKF	44
SKS1	34	....SSS.MDEFYNKG ^N GLNNNSQV.	....A.RTLLQTQ	62
YDR247W	36	....S.Y ^G V ^S KEADMGNDKIH.	....K.NSVKLQKK	61
ELM1	24	....KVV ^A K ^I I ^P KKP ^W NAQQY ^S VN.	....QVMRQIQLW ^K SKGKITTNMSGNEAMRLMN	74
CHK1	26	....SII ^A V ^K FI ^H V ^P TCK ^K MG.	....LS	46
YAK1	23	....KEIL ^A V ^K V ^K SR.	....TEY	38
SKY1	23	....NTHV ^A AMK ^I V ^R GD..K.	....VY	38
KNS1	25	....NYV ^A V ^K V ^I RAVDR.	....Y	39
YMR291W	24	....KDLY ^A AMK ^I KKQ ^T V ^K N.	....K	41
MPS1	22	....NRVY ^A L ^K R ^V SFD ^A FDDSS.	.....	40
KSP1	23	....KRLV ^A V ^K Y ^I FKLEDDGQYDGPQDDENCDSSCD ^D DED ^T KV ^D TD ^R HENENGNA ^S NNGSS	....	83
IME2	26	....ILGKQHDI ^L RT ^L MDQ ^P KN.	....GHQNYITKTQGVVA	58
YKL171W	24	....VGRV ^V IKV ^K FKGHQ ^N.	....I	40
YGR052W	24	....RYV ^A L ^K IT ^P PKY ^K TS.	....	38

		170	180	190	200	210	220	230	240	65
YCK1	38	APQLRDEYKTYKILNG.			TPNIPYAYYF.	GQEGL.		HNI LV		73
YCK2	38	APQLKDEYRTYKILAG.			TPGIPQEYYF.	GQEGL.		HNI LV		73
YCK3	55	APQLRDEFRAYRILNG.			CVGIPHAYYF.	GQEGM.		HNI LI		90
HRR25	38	HPQLDYESRVYRLSG.			GGVIPFIRWF.	GREGE.		YNAMV		73
PRK1	47	LNTLRAEV DAMKLRLN.			NKHVVSYIDS.	HAARSV.	NG.	IAYEVFVL		88
ARK1	47	LNTLRAEV DAMRLKLN.			NRYVVSYIDS.	AAAKAM.	LHN.	GSEEVFVL		89
YBR059C	54	LNEMRNEVEVMKKLKG.			APNIVQYFDS.	NASRR.	DGV.	QGFEVLLL		96
FUS3	41	ALRTLREIKILKHFK.			HENIITIFNI.	QRPSDF.	EN.	FNEVYII		80
HOG1	42	AKRTYRELKLLKHLR.			HENLICLQDI.	FLSP.		LEDIYFV		77
SLT2	44	CKRSLRELKLLRHFRG.			HKNITCLYDM.	DIVFYP.		DGSINGLYLY		85
YKL161C	44	CKRTLRELKLLRHLRG.			HPNIVWLFDT.	DIVFYP.		NGALNGVYLY		85
CDC28	45	PSTAIREISLLKELK.			DDNIVVRLYDI.	VHSDA.		HKLYLV		80
PHO85	41	PSTAIREISLMKELK.			HENIVVRLYDV.	IHTEN.		KLTLV		75
KIN28	42	DMSAIREVKYLQEMQ.			HPNIVIELIDI.	FMYAD.		NLNLV		76
CTK1	42	PITSIREIKLLQSFD.			HPNIVSTIKEI.	MVESQ.		KTVYMI		77
SSN3	127	SQSACREMALCRELH.			NKHLTTLVEI.	FLER.		KCVHMV		161
MRK1	36	RRYKRNRELETMKMLC.			HPTNTVGLQYY.	FYE.		KDEEDEVYLNLV		75
RIM11	36	KRFKNRELEIMKMLS.			HINIIDLKYF.	FYE.		RDSQDEIYLNLNLI		75
YOL128C	40	PKVQSLSELEILQNIR.			HPNLVTLFF.	FESHCT.		TKDGGHLYQKNFV		83
FUN31	48	LGTIPSSEIQIMATLNKK.			PHENTLRLDF.	FEDDD.		YYI		84
YOL045W	48	LGTIPSSEIQIMATLNKN.			SQENILKLLDF.	FEDDD.		YYI		84
PAK1	54	NDKIKREIAIMKKCHHK.			HHVQLIEVLDD.	LKSRK.		IYLV		90
YGL179C	49	NPRVNQOEIEVMKRCHHE.			NVVELYEILND.	PESTK.		VYLV		85
SCH9	43	IAHTIGERNILVTTASK.			SSPFIVGLKFS.	FQTPT.		DLYLV		80
YPK2	43	VTHTLAERTVLA RVD.			CPFIVPLKFS.	FQSPE.		KLYLV		77
CBK1	45	LAHVKAERDVLAGSD.			SPWVVSLYYS.	FQDAQ.		YLYLI		79
YNR047W	43	IKRVLTEQEILATSN.			HPFIVTLYHS.	FQSED.		YLYLC		77
SRA3	43	VEHTNDERLMLSIVT.			HPFIIIRMWGT.	FQDAQ.		QIFMI		77
TPK3	45	VEHTNDEERRMLSIVS.			HPFIIIRMWGT.	FQDSQ.		QVF MV		79
PKA3	45	VEHTNDEERRMLKLV.			HPFLIRMWGT.	FQDAR.		NIFMV		79
PCK1	45	IESARA EKKVFLLATKT.			KHPFLTNLYCS.	FQTEN.		RIYFA		82
YBR028C	43	ATDSKREDEDKNDGNNDNDG LSKRLERTFAERSILSEIEHPNIVVKLFYS.			FHDNS.			KLYLL		103
DBF2	43	TKHVLTERDILTTTR.			SEWLVKLLYA.	FQDLQ.		SLYLA		77
DBF20	43	TNHVLTERDILTTTR.			SDWLVKLLYA.	FQDPE.		SLYLA		77
PKH1	45	VKVTVTEKLALQKLNG.			TKGIFKLF FFT.	FQDEA.		SLYFL		80
PKH2	45	VKVVSIEKTA LQKLNN.			SPSVVRLFST.	FQDES.		SLYFL		80
YDR466W	46	VKVVTIEKNTMNL LAQK.			HHAGIIKLYYT.	FHDEE.		NLYFV		83
IPL1	43	QKQFREVEIQTSLN.			HPNLTKS YGY.	FHDEK.		RVYLL		77
YCL024W	51	PYNIEREIVIMKLS.			HPNVL SLYDV.	WETNN.		NLYLI		85
GIN4	57	PYGIEREIIIIMKLN.			HPNVLRLYDV.	WETNT.		DLYLV		91
HSL1	80	PYGIEREIVIMKLS.			HTNVMALFEV.	WENKS.		ELYLV		114
KIN4	49	EIKIYREINALKHLT.			HPNIIYLEEV.	LQNSK.		YIGIV		83
YPL141C	56	EVK IYREINALKHL S.			HPNIVKLEEV.	LQNSR.		YIGIV		90
KIN1	68	DKRTIREASLGQILY.			HPHI CRLFEM.	CTL SN.		HFYML		102
KIN2	69	DKRTVREASLGQILY.			HPHI CRLFEM.	CTMSN.		HFYML		103
APG1	44	LENLEIEIAILKKIK.			HPHI VGLIDC.	ERTST.		DFYLI		78
CDC5	42	RKKLLSEI QIH KSMS.			HPNI VQFIDC.	FEDDS.		NVYIL		76
CMK1	44	.EALYDEL DILQRLH.			HPNIVAFKD W.	FESKD.		KFYII		78
CMK2	44	.QMLYEE LSILQKLS.			HPNIVVSFKDW.	FESKD.		KFYIV		78
MEK1	44	.NKFDK EARI LLRLD.			HPNIIK VYHT.	FCDRNN.		HLYIF		79
DUN1	43	.KQFREETN ILM RVQ.			HPNIVNLLDS.	FVEPIS.	K.SQIQKYL V.	82		
RCK1	56	RKKV LNEVAI HKL VSKN.			NPHCTKFIAF.	QESAN.		YYLV		92
RCK2	68	RDQVLK EVAL HKT VSAG.			CSQTIVAFID F.	QETDS.		YYIYI		104
RAD53	41	MDGVTR ELEV LQKL N.			HPRI VRLKGF.	YEDTE.		SYYMV		75
KIN3	42	RQQLIA ECISLSQLK.			HENI VEF YNW.	DFDE.		QKEVLYLY		78
CDC15	40	LNDIMAEISLLKLN.			HNNIVVKYH.	GFI R.		KSE YLYIL		74
STE7	42	INQLVR ELSITV KNV KP.			HENI ITFYGA.	YYNQH.		INNEIIIL		80
PBS2	42	R.QILMELEV LHKCN.			SPYIVD FYGA.	FF.		IEGA VYMC		75
MKK1	42	QKQIFRELQFNRSFQ.			SEYIVR YYGM.	FTDD.		ENSSIIYIA		78
MKK2	42	QKQIFRELQFNKSFK.			SDYIVQYYGM.	FTDE.		QSSSIYIA		78
SPS1	41	IELLAQ EIFFLA ELK.			SP. LIT NYIA.	TMLE.		DVS MWIV		75
NRK1	41	VEDVQREI IQFL ASLK.			QISN ITTRYYG.	SYLK.		DTSLWII		76
CLA4	59	KELIVNEIL VMKDSR.			HKNIVNFLEA.	YLRT.		DDD LWVV		94
SKM1	57	KQLIMNELL VMNDSR.			QENIVNFLEA.	YIID.		DEELWVI		92
STE20	40	KELI INEIL VMKGSK.			HPNIVVNFIDS.	YVLK.	G.DLWVI	74		
SSK22	44	FPLIKE EMTV LEMLN.			HPNIVQYYGV.	EVHR.		DKVNIF		78
SSK2	44	FPLIKE EMSV LEILN.			HPNIVSYYGV.	EVHR.		DKVNIF		78
BCK1	48	VEALRSEVSTLKDLD.			HLNIVQYLG F.	ENKN.		NIYSLF		82
STE11	84	VDALQHE MNLLKELH.			HENIVTYYGA.	SQEG.		GNLNIF		118
HAL5	58	CTRLTSEFIIGHSL SHPH FEANAMIAGN.	VSRT TPP KHVF NAPN ILK ILL D.		MEYS.			NSFVEV		117
YKL168C	58	CTKITSEFIIGHSL SHY HKNG.	KKP.		APNILN VF DI.	LEDS.		SSFIEV		101
NPR1	45	VKKITSEY CIG TLL NH.			PNI IETIEI.	VYEN.		DRILQV		79
YDL214C	47	IKNI ISEY CI ASTL KLN.			PNI CETLEI.	LYEK.		GKIFQI		81
YDL025C	52	SKKVTTEFCIG STL HH.			ENIVETL D M.	LTEG.		DTYLLV		86
YOR267C	47	AKKCTAEFCIG STL HH.			PNV IETV DV.	FSDK.		QNK YEV		83
PTK2	45	YKRCSE FIIIAKHL SHN.			VHITNT FYL.	LKVPTT.		TYTRG WGFI		86
PTK1	45	YNAAPKE FIIIAKQL SHH.			VHITNT FLL.	VKVP TT.		VYTRG WGFGV		86
SKS1	63	LYHFFKS FQKKLFL P SVDL D S IQLT ENEL N RL PHY REIA FQLR V QSHGNI.	VKI HQV.					LESSIAT FIV		129
YDR247W	62	LA KLF KE SKN V RV VP S IDLE SIEN M SEED FK KL LPHY KEISL HLR VHHHKNI.	VTI HEV.					LQS A V CT FIV		128
ELM1	75	IEKCRWEI FAAS RL RN.			NVHIVVRLIEC.	LDS PFS.		ESIWIV		112
CHK1	47	DKDITKEV VLQSKCS.			KHPNIVRLI D C.	NVSK.		EYMWII		82
YAK1	39	LTQ SIT EAK ILE L NQ KID PTN.			KH HF L R MYDS.	FVHK N.		HLCLV		80
SKY1	39	TEAAE DE I KLL Q RV N DAD NT KED S MG.			ANH II LK L LDH.	FN HK GP.		NGV H VVMV		88
KNS1	40	REAAKTE LRL Q TI L N N D P Q G.			QF Q C I L L REC.	FDYKN.		HICL V		80
YMR291W	42	IQLIQREF DLL R S I E K I R D M E K K N E H S L D I F E G.			HHHIIQL FDY.	FETADN.		IVL I		95
MPS1	41	IDGF KG E IEL L E K L K D.			QKRIVQ L LDY.	EMGD G.		LL YLI		76
KSP1	84	REKKH N LYK HK K S L I SS K V K S R L S NN.			IC L AM YE VD IQ T K.	IG RH QN.	IA AL L D F DS Y II	142		
IME2	59	I K T M M T K L H L T Q D Y T R V R E I K F I L A I P.			AND H L I Q I F E V.	FIDSE.		NY QL H IV		108
YKL171W	41	KKH V L R E V A I W R T L K.			HNR I L P L L DW.	KL DDN.		YAMY CL		76
YGR052W	39	EAN M K N E Y D V M K I L S S C N.			PHP NI CS M L DF.	YT DDS.		YY IMV		77

CKA1	66	QYYTNQKEDVLKFIRPYIFDQPHNG.	HANI	IHLFDI	.IKDPIS.	.KTPALV	112
CDC7	52	PQRIFYELNLLYIMTG.	SSR	VAPLCDA	.KRVR.	DQVIAV	87
YKL116C	62	ENSLTRELQVLKSLN.	HPCIV	VLLGINNP	IFTVTSKKPLCDLIIKTPRALPPCDMI	115	
IRE1	36	CDIALMEIKLLTESDD.	HPN	VIRYYCS.	.ETTDR.	FLYIA	71
SWE1	40	LKRILLEIKILNEVTN.	QITMDQEKEYI	IDYISS.	.WKFQN.	SYYIM	83
IKS1	44	FNKCIREVKALSSLTHKSANILITYN.	HWV	LEMSSVGVR	SIDGSQS	EVPCIFIL	101
VPS15	39	LRFPLQRIRAQSFKLG.	QLP	HVNYSKL.	.IETNR.	AGYMI	75
CAK1	41	PHNAKEVSILNKLN.	KCKHIL	LPLLESKAT	DNNNDLLL	LYEFQM	95
BUB1	38	EYYIMSQVEFRLRKS.	TILKSI	INASALHFLD.	.	SYLV	74
YGR262C	42	AKDSHQKYI	YRHPO	LDQALTKHRTLNESR.	.	LLAKLYLI	86
SLN1	28	KVGVGSKFTFTLPLN.	QTKE	ISFADMEFP	DEFEDFNP.	ESRKNR	69
CTK2	73	FNRFETEVCVTVATSCLT	CKEVET	TKKTN	TDICTLSLR	VVKINTDI	122
CTK3	40	QQKLNNDPIQFYLRN.	YRH	HYEDFHQCLFD	TTMKMDP.	LDRLD	80
YGL059W	112	VIRIAHKLNQLQQLPFN.	VVNNNFH	VQVYESYYN	IFESFR.	KYPTI	155
YIL042C	85	LSLTCKRNLNAIQRLPYN.	AVINPHI	ERTNSYL	KSQDLSQ	143	
MEC1	38	VLSLREDCGILEMVP.	NVV	TLRSILSTK	YESLKIKYS.	LKS	80
DBF4	51	DRDPRTKRDDIHYFKYP.	HYV	YDLWQT	WAPIITL	DEL	101
MRK1	36	RRYKRNRELETMKMLC.	HPTN	VGLQYY.	.FYE.	KDEEDEVY	75
RIM11	36	KRFKNRELEIMKMLS.	HINI	IDLKVF.	.FYE.	RDSQDEIY	75
YOL128C	40	PKVQSLSELEILQNIR.	HPN	VLVT	KLFF.	TKDGGHLY	83
FUN31	48	LGTIPS	PHENT	LLDF.	.FEDDD.	YYI	84
YOL045W	48	SEIQIMATLNKN.	SQENIL	KLLDF.	.FEDDD.	YYI	84
PAK1	54	NDKIKREIAIMKKCHHK.	HVVQ	QLIEVL	LD.	IYLV	90
YGL179C	49	NPRVNQOEIEVMKRCRHH.	NVVEL	YEILND.	.PESTK.	YLV	85
SCH9	43	IAHTIGERNILVTTASK.	SSPF	IVGLKFS.	.FQTPT.	DLYLV	80
YPK2	43	VTHTLAERTVLA	CPF	IVPLKFS.	.FQSPE.	KLYLV	77
CBK1	45	LAHVKAERDVLAGSD.	SPW	VVSVL	YYDS.	YLYLI	79
YNR047W	43	IKRVLTEQEILATSN.	HPF	IVTLYHS.	.FQSED.	YLYLC	77
SRA3	43	VEHTNDERLMLSIVT.	HPFII	IRMWGT.	.FQDAQ.	QIFMI	77
TPK3	45	VEHTNDEERRMLSIVS.	HPFII	IRMWGT.	.FQDSQ.	QVFMV	79
PKA3	45	VEHTNDEERRMLKLV.	HPFII	IRMWGT.	.FQDAR.	NIFMV	79
PCK1	45	IESARAEEKKVFLLATKT.	KHPF	FLTNLYCS.	.FQTEN.	RIYFA	82
YBR028C	43	ATDSKREDEDKNDGNNDNDG	LSKRLERT	FAERSIL	SEIEHPNIV	KLYLL	103
DBF2	43	TKHVLTERDIL	SEWL	VKLLYA.	.FQDLQ.	SLYLA	77
DBF20	43	TNHVLTERDIL	SDWL	VKLLYA.	.FQDPE.	SLYLA	77
PKH1	45	VKYVTVEKLAQKLN	TKG	IFKLF	.FFT.	QFDEA	80
PKH2	45	VKYVSI	SPSV	VRLF	.FQDES.	SLYFL	80
YDR466W	46	EKNTMNL	HHAGI	IKLYYT.	.FHDEE.	NLYFV	83
IPL1	43	QKQFREVEIQTSN.	HPN	LTKSYGY.	.FHDEK.	RVYLL	77
YCL024W	51	PYNIEREIVIMKLS.	HPNV	LSLYDV.	.WETNN.	NLYLI	85
GIN4	57	PYGIEREIIIIMKLN.	HPNV	VLRLYDV.	.WETNT.	DLYLV	91
HSL1	80	PYGIEREIVIMKLS.	HTNV	MALFEV.	.WENKS.	ELYLV	114
KIN4	49	EIKIYREINALKHLT.	HPNI	IIYLEEV.	.LQNSK.	YIGIV	83
YPL141C	56	EVKIVREINALKHL	HPNI	VKLEEV.	.LQNSR.	YIGIV	90
KIN1	68	DKRTIREASLGQILY.	HPHI	CRLFEM.	.CTL	HFYML	102
KIN2	69	DKRTVREASLGQILY.	HPHI	CRLFEM.	.CTMSN.	HFYML	103
APG1	44	LENLEIEIAILKKIK.	HPHI	VGLIDC.	.ERTST.	DFYLI	78
CDC5	42	RKKLLSEI	HPNI	VQFIDC.	.FEDDS.	NVYIL	76
CMK1	44	EALYDEL	HPNI	VAFKD	.FESKD.	KFYII	78
CMK2	44	QMLYEE	HPNI	V	.FESKD.	KFYIV	78
MEK1	44	NKFDK	HPNI	IKVYHT.	.FCDRNN.	HLYIF	79
DUN1	43	KQFRE	HPNI	VNL	.FVEPIS.	K.SQIQ	82
RCK1	56	RKKVLENEVAIHKLV	NPHCT	KFIAF.	.QESAN.	YYLV	92
RCK2	68	RDQVLK	CSQT	VAFIDF.	.QETDS.	YYI	104
RAD53	41	MDGVTR	HPRI	VRLKGF.	.YEDTE.	SYYMV	75
KIN3	42	RQQLIAEC	HENI	VEFYNW.	.DFDE.	QKEVLY	78
CDC15	40	LNDIMAEI	HNNI	VKYH.	.GFI	KSEYLY	74
STE7	42	INQLVRE	HENI	ITFYGA.	.YYNQH.	INNEII	80
PBS2	42	R.QILMELEV	SPY	IVDFYGA.	.FF.	IEGAVY	75
MKK1	42	QKQIFRELQFNRSFQ.	SEYI	IVRYYGM.	.FTDD.	ENSSIIY	78
MKK2	42	QKQIFRELQFNFSFK.	SDYI	VQYYGM.	.FTDE.	QSSSIY	78
SPS1	41	IELLAQEIFFLAELK.	SP.	LITNYIA.	.TMLE.	DVS	75
NRK1	41	VEDVQREI	QISN	ITTRYYG.	.SYLK.	MLWIV	76
CLA4	59	KE	HNKIV	VNFLEA.	.YLRT.	DTSLW	94
SKM1	57	KQLIMNELLVMNDSR.	QENI	VNFLEA.	.YIID.	DEEL	79
STE20	40	KELIINEILVMGSK.	HPNI	VNFIDS.	.YVLK.	DWLVI	74
SSK22	44	FPLIKEEMTV	HPNI	VQYYGV.	.EVHR.	DKVNIF	78
SSK2	44	FPLIKEEMSV	HPNI	V	.EVHR.	DKVNIF	78
BCK1	48	VEALRSEV	HLN	VQYLG	.ENKN.	NIYSL	82
STE11	84	VDALQHEMNLLKELH.	HENI	IVTYYGA.	.SQEG.	GNLNIF	118
HAL5	58	CTRLTSE	HPNI	V	.MEYS.	NSFVE	117
YKL168C	58	CTKITSE	HPNI	IGHSL	.SSFIEV	101	
NPR1	45	VKKITSE	HPNI	SHPHF	.KPK.	101	
YDL214C	47	IKNIISEYCI	HPNI	FEANAMIAGN.	.VSRTTPPKH	101	
YDL025C	52	SKVTTSE	HPNI	VFNAPN	.I	101	
YOR267C	47	AKKCTAEFCIGSTLHH.	PNV	VIETV	.FDSK.	QNKY	83
PTK2	45	YKRCSE	VH	TNTF	.LKVPTT.	YEV	86
PTK1	45	YNAAPKE	VH	NTF	.VKVPTT.	TYTRG	86
SKS1	63	LYHFFKS	VH	NTF	.VYTRG	86	
YDR247W	62	FQKKLFL	VH	NTF	.WGVF	86	
ELM1	75	PSV	VH	NTF	.VYTRG	86	
CHK1	47	TDL	VH	NTF	.WGVF	86	
YAK1	39	LTQ	VH	NTF	.VYTRG	86	
SKY1	39	SITE	VH	NTF	.WGVF	86	
KNS1	40	TEAAKTEL	VH	NTF	.WGVF	86	
YMR291W	42	QILOQREF	VH	NTF	.WGVF	86	
MPS1	41	DFD	VH	NTF	.WGVF	86	
KSP1	84	LLR	VH	NTF	.WGVF	86	
IME2	59	RSI	VH	NTF	.WGVF	86	
YKL171W	41	SE	VH	NTF	.WGVF	86	
YGR052W	39	TC	VH	NTF	.WGVF	86	

		250	260	270	280	290	300	310	320	112
YCK1	74	IDLLGPSLEDLFWCG.			RKFSVKTVVQAVQMITEILEDLHADH.					115
YCK2	74	IDLLGPSLEDLFWCG.			RRFSVKTVVQAVQMITEILEDLHADH.					115
YCK3	91	IDLLGPSLEDLFEWCG.			RKFSVKTCMVAQQMIDRVRRAHDHD.					132
HRR25	74	IDLLGPSLEDLFNYCH.			RRFSFKTVIMLALQMFCRIQYIHGRS.					115
PRK1	89	MEFCERGGLIDFMNTR.			LQNRLQESEILEIMSQTVGITAMHALQPP.					134
ARK1	90	MEYCERGGLIDFMNTR.			LQNRLHEFEILQIMSQVTQGVAAAMHALQPP.					135
YBR059C	97	MELCPNKSLLDMNQR.			LSTKLTEAEIVKIMDVALSISQMHYLPVS.					142
FUS3	81	QELMQTDLHRVIST.			QMLISDDHIQFYIQTIRAVKVLHGSN.					120
HOG1	78	TELQGTDLHRLLQT.			RPLKEKFQVQYFQIILRGKIKYVHSAG.					117
SLT2	86	EELMECDMHQIICKSG.			QPLTDAHYQSFTYQILCGLKYLHSAD.					126
YKL161C	86	EELMECDLSQIIRSE.			QRLDAHFQSFIYQILCAIKYIHSAN.					126
CDC28	81	FEFLDDLKRYMEGIPKD.			QPLGADIVKKFMMQLCKGIAVCHSHR.					124
PHO85	76	FEFMNDLKKYMDMSRTVG.	N		TPRGLLELNLVKYFQWLQGLIAFCHENK.					122
KIN28	77	LEFLPTDLEVVIKDKSIL.			FTPADIKAWMLMTLRGVYHCHRNF.					118
CTK1	78	FEYADNDLSSLNLN.			KEVQIHSQCKHLFKQLLLGMEVLYHDNK.					119
SSN3	162	YEYAEHDLLQIIHFHSHP.			EKRMIIPPRMVRSIMWQLLDGVSYLHQNW.					207
MRK1	76	LDYMPQSLYQRLRHFVNL.			KMOMPMPREVEKIFYAYQLFKALNYLHNVP.					121
RIM11	76	LEYMPQSLYQRLRHFVHQ.			RTPMSRLEIYKYYMFQLFKSILNYLHHFAN.					121
YOL128C	84	MEYIPTQTSSEIHEYFDN.			GSKMPTKHKLYTFQILRALTLHSMS.					128
FUN31	85	ETPVHGETGCIDLFDLIE.	FKTN.		MTEFEAKLIFQKVAGIKHLHDQG.					130
YOL045W	85	ETPVHGETGSIDLFDVIE.	FKKD.		MVEHEAKLVLVFQKVVASIKHLHDQG.					130
PAK1	91	LEYCSERGEVWKCPDCME.	SDAKG.		PSLLSFQETREILRGVVVLGLEYLYHQG.					140
YGL179C	86	LEYCSRGPKWCPCENKME.	IKAVG.		PSIILTQQSRKVVLDDVVSGLEYLYHSQG.					135
SCH9	81	TDYMGGELFWHLQ.			KEGRFSEDRAKFYIAELVLALELHLHDND.					122
YPK2	78	LAFINGGELFYHLQ.			HEGRFLSLARSRFYIAELLCAALDSLHKLD.					119
CBK1	80	MEFLPGGDLMTMLI.			RWQLFTEDVTFRYMAECILAETIHLKG.					121
YNR047W	78	MEYCMGGEFFRALQTR.			TKTKICEDDARFYASEVTAILEYLYHLLG.					121
SRA3	78	MDYIEGGELFSLLR.			KSQRFPNPVAKFYAAEVCLALEYLYHSKD.					119
TPK3	80	MDYIEGGELFSLLR.			KSQRFPNPVAKFYAAEVCLALEYLYHSKD.					121
PKA3	80	MDYIEGGELFSLLR.			KSQRFPNPVAKFYAAEVILALEYLYHANN.					121
PCK1	83	MEFIGGGDLMWHVQ.			N.QRLSVRRAKFYAAEVLLALKYFHHDNG.					123
YBR028C	104	LQYIPGGELFYHLK.			EHGTLDDETTVSFYAAEISCAIRFLHTKG.					145
DBF2	78	MEFVPGGDFTLLIN.			TRCLKSGHARFYISEMFCAVNALHDLG.					119
DBF20	78	MEFVPGGDFTLLIN.			TRILKSGHARFYISEMFCAVNALHELG.					119
PKH1	81	LEYAPHGDFGLI.	K.		KYGSLNNETCARYYASQIIDAVDSLHNIG.					122
PKH2	81	LEYAPNGDFLSSLMK.			KYGSLIDETCARYYAAQIIDAIIDLHSNG.					122
YDR466W	84	LDFAPGGESELLLH.			KMGTFNDIWTRHFTAQLIDALEFIHSHG.					125
IPL1	78	MEYLVNGEMYKLLR.			LHGPFDNIDLASDYYQIANALDYMHKKN.					119
YCL024W	86	LEYAEGKELFNLLV.			DHGGLPEREAINCFRQIIIGVSYCHALG.					127
GIN4	92	LEYAEGKELFNLLV.			ERGPLPEREHAIRFRQIIIGVSYCHALG.					133
HSL1	115	LEYVDDGGEFLDYLV.			SKGKLPEREAIHYFKQIVEGVSYCHSFN.					156
KIN4	84	DEFVSGGEFYKYIQ.			RKRLIKEKSSACRFLAQQLISGVVNMYHKG.					125
YPL141C	91	LEYACGGEFYKYIQ.			KKRLKEMNACRFLSQQLISGVHYIHSKG.					132
KIN1	103	FEYVSGGQLLDYI.	I.		QHGSIREHQARKFARGIASALIYLNHANN.					144
KIN2	104	FEYVSGGQLLDYI.	I.		QHGSIKEHHARKFARGIASALQYLHANN.					145
APG1	79	MEYCALGDLTFLKRRKE.		LMENHP.	LMENHP.LLRTVFEKYPPPSENHNGLHRAFVLSLQQQLASALKFLRSKN.					144
CDC5	77	LEICPNGSLMELKRRK.			VLTPEVRFRTTQICGAIKYMHSSR.					118
CMK1	79	TQLAKGGELFDRILK.			KGKFTEEADAVRILVEILSAVVKYHSQN.					120
CMK2	79	TQLATGGELFDRILS.			RGKFTEVDAVEIVQILGAVEYMHSKN.					120
MEK1	80	QDLIPGGDLSYLAKGD.			CLTSMSSETESLLIVFQILQALNYLHDQD.					124
DUN1	83	LEKIDDGELFERIVR.			KTCILRQDESKALFKQLLTGKLYLHEQN.					124
RCK1	93	TELVTGGEIFDRVQ.			LTCFSEDLARHVITQVAIAIKHMHYMG.					134
RCK2	105	QELLTGGEIFGEIVR.			LTYFSEDLSRHVIKQLALAVKHMHSLG.					146
RAD53	76	MEFVSGGDLMDFVAA.			HGAVGEDAGREISRQILTAIKYIHSMG.					117
KIN3	79	MEYCSRGDLSQLMIK.		YKQEH.	KYIPEKIVGILAQILTALYKCHYGVELPTLTT.					131
CDC15	75	LEYCANGSLRRLISR.		SSTG.	LSENEKSTVYTQTLGLKYLHG..					115
STE7	81	MEYSDCGSLDKILSVYKR.	FVQRGT.	VSSKK.	TWFNELTISKIAYGVNLGLDHLYRQY.					135
PBS2	76	MEYMDGGSLDKIY.	DE.	SS.EI.	GGIDEPQLAFIANAVIHINGIKELKEQH.					120
MKK1	79	MEYMGGRSLDAIYKN.		LLERG.	GRISEKVLGKIAEAVLRLGSLYHEK.					123
MKK2	79	MEYMGGKSLREATYKN.		LLKRG.	GRISERVIGKIAESVLRGLSYLHER.					123
SPS1	76	MEYCGGGSCSDLKLR.		SYVNG.	LPEEKVSVIFIHEVTLGLKLYLHEQ.					118
NRK1	77	MEHCAGGSLRSLLRP.	GKID.		EKYIGVIMRELLVALKCILHKD.					116
CLA4	95	MEFMEGGS LTDIEN.	SPTNDN.		SHSPLTEPQIAYIVRETCQGKFLHKD.					142
SKM1	93	MEYMEGGCLTDIADA.	VARSNTGE.		HSSPLNENQ MAYIVVKETCQGKFLHNK.					142
STE20	75	MEYMEGGSLTDVVT.			HCILTEGQIGAVCRETLSGLEFLHSK.					114
SSK22	79	MEYCEGGSLASLLDHG.			RIEDEMVTQVYTFELLEGIALYHQSG.					120
SSK2	79	MEYCEGGSLAALLEHG.			RIEDEMVTQVYTFELLEGIALYHESG.					120
BCK1	83	LEYVAGGGSVGSILRMY.			GRFDEPLIKHLLTQVLKGIALYHSKG.					124
STE11	119	LEYVPGGSVSSMLNNY.			GPFEESLITNFTRQILIGVAYLHKKN.					160
HAL5	118	MEFCASGDLYSLTRNNI.		SNESNN.GSSRLI.	KHVNHGILIKKVFQQLCSALDHCHRLG.					181
YKL168C	102	MEFCPAGDLYGMLVG.			RHFVTNGLLVKKVFLQICSAI NYCHEHG.					147
NPR1	80	MEYCEYDLFAIVMSN.			WKNPFWNCFKQVAQGKIFCHDNG.					119
YDL214C	82	LEYCEYDLFSLVMSE.			KMSYEEICCCFKQILTGQVYQYLSIG.					121
YDL025C	87	MEYAPYDFFNLVMSN.			KMHYEEICCLFKQLINGVKYLHDIG.					126
YOR267C	84	MEYCPIDFFAVVMTG.			LMTQDEVNCYFKQLCHGVNYLHSMG.					123
PTK2	87	MELGVKDLQFLMERT.	G.		KMSRGEINCCCLQKQLEGVKYLHSMG.					129
PTK1	87	MELGLRDLFAMIQOK.	G.		WKNPFWNCFKQVAQGKIFCHDNG.					129
SKS1	130	MDYYDRDLFTSIYDD.			WRHFLVALAEKFCIFQVACGVKFCHDQG.					129
YDR247W	129	MDYYPTDLFTSIYDN.			KHFVNHGILIKKVFQQLCSALDHCHRLG.					172
ELM1	113	TNWCSLGELOWKRRDDDED.			RHFVTNGLLVKKVFLQICSAI NYCHEHG.					171
CHK1	83	LEMADGGDLFDKIEP.			ILPQWKKIVISNCVSSTFAKKILEDMTKGLEYLHSQG.					167
YAK1	81	FELLSNNLYELLKQN.			DVGVDSDVAQFYFQQLVSAI NYLHVECG.					125
SKY1	89	FEVLGENLALALIKKY.			KFHGLSIQLIRTFTQILDSLCVLKESK.					123
KNS1	81	TDLYGRSIYDFMCNSNG.			EHRGIIPLIYVQKQISKQLLGLDYMHRRCG.					132
YMR291W	96	TOLCQKGDLYKIVEN.			IARFPGSHIQAIKARLIRSVCFLHDLG.					123
MPS1	77	MECGDHDLSQLNQRS.			OCLDILETOVTSYCACLVSVLEFLHSQG.					138
KSP1	143	MEYCSGGDLYEAIKAD.			GMPIDFNFWRFYFTKEMLLCIKVYHDAG.					119
IME2	109	MECMEQONLYQMMKRR.			AVPKKTKSITHIQTQIMDAIEYVHNKG.					185
YKL171W	77	TERINDGQTLYDLVISWDE.	FK.	RSK.	RRVFSIPSILKQISLQILAGLKHIEHN.					151
YGR052W	78	LEYCECGDLYDFLDIAKS.	Q.	GSP.	IPFAERCRRLTIFLSSLQLLSALKYHSKT.					127
					SSPSPLIQLIDMQKIKQLCSAISFAHSLG.					127

CKA1	113	F Y VVDNVDFRILYD...	KLTDL...	151
CDC7	88	L P YYPPHEEFRTFYR...	DLPPIKGIKKYIWE...	126
YKL116C	116	M S YCPAGDLAA V MAR...	NGRLEAWL...RIFT...	158
IRE1	72	L E LCNLNLQDLVESKNVS...	NLKLOKEYNPISLRL...	119
SWE1	84	T E LCENGNLGDGF L QEQVI...	KKRLEDWRIWKIIVE...	131
IKS1	102	Q Y CSGGNLED C ILRKVFNRFSDTESPEER...	KKKFTRTRKKNHGKS...	173
VPS15	76	R Q HLKNNLYDRSLR...	PLQDIELKFIAFQL...	116
CAK1	96	R D RKKPNPYDD L NPSIP...	IVADPPVQKYTNQLD...	151
BUB1	75	L NYASQGTVLDL I NLQRE...	K.AIDGN...MD...	124
YGR262C	87	P G LCVPQLIACDPYNG...	FIWLEFLGEGDLP...	132
SLN1	70	V KFSVAKSIKSRSQS...	TSSVATPATRNRS...	109
CTK2	123	L ENFKKRVFQIE L RILES...	CSFDYRVNNVYHIDEY...	172
CTK3	81	V VIYYVRIIRNLYPHS...	HSNTNVTKVLNEV...	123
YGL059W	156	R T LEDAQSQAFD I KNMLEG...	LSLRARISRR...	235
YIL042C	144	L LDHDEDAIVVLAKG...	LQEIQSCYPKFQI...	201
MEC1	81	W Q HATVDGKLEFYMEQ...	VDKFPPILYQWF...	123
DBF4	102	L K IGSGFRCPF...GDRN...	YDESSYKRVV...	144
MRK1	76	L D YMPQS...YQRLRHFVN...	KMQMPRVE...	121
RIM11	76	L EYMPQS...YQRLRHFVHQ...	RTPMSRLE...	121
YOL128C	84	M EYIPQTLSSEIHEYFDN...	GSKMP...	128
FUN31	85	E T PVHGETGCID L FDLIE...	MTEFEAKL...	130
YOL045W	85	E T PVHGETGSIDL L FDVIE...	MVEHEAKL...	130
PAK1	91	L EYCSRG...	PSL...	140
YGL179C	86	L EYCSRG...	PSI...	135
SCH9	81	T D YMSGGELFWHLQ...	KEGRF...	122
YPK2	78	L A FINGGELFYHLQ...	HEGRF...	119
CBK1	80	M E FLPGGDLMTMLI...	RWQLFTED...	121
YNR047W	78	M EYCMGGEFFRALQTR...	KTKCIC...	121
SRA3	78	M D YIEGGELFSSLR...	KSQRFPNP...	119
TPK3	80	M D YIEGGELFSSLR...	KSQRFPNP...	121
PKA3	80	M D YIEGGELFSSLR...	KSQRFPNP...	121
PCK1	83	M E FFIGGGDLMWHVQ...	N.QRLS...	123
YBR028C	104	L Q YIPGGELFYHLK...	EHGTL...	145
DBF2	78	M E FVPGGDFRTL...L...	TRCLKSGH...	119
DBF20	78	M E FVPGGDFRTL...L...	TRILKSGH...	119
PKH1	81	L E YAPHGDFGLI...K...	KYGS...	122
PKH2	81	L E YAPNGDFL...L...	KYGS...	122
YDR466W	84	L D FAPG...LL...	KMGT...	125
IPL1	78	M E YLVNGEMYKL...R...	LHGPFNDI...	119
YCL024W	86	L E YAEKGELFNL...LV...	DHGGLP...	127
GIN4	92	L E YAEKGELFNL...LV...	ERGPL...	133
HSL1	115	L E YVDDGGELFDY...LV...	SKGKL...	156
KIN4	84	L E FVSGGEFYK...I...Q...	RKRRL...	125
YPL141C	91	L E YACCGGEFYK...I...Q...	KKR...	132
KIN1	103	F E YVSGGQLLDY...I...	QHGS...	144
KIN2	104	F E YVSGGQLLDY...I...	QHGS...	145
APG1	79	M E YCALGDLTFL...L...	LMENHP...	144
CDC5	77	L E ICPNG...SL...	VLT...	118
CMK1	79	T O LAKGGELFDRILK...	KGK...	120
CMK2	79	T Q LATGGELFDRILS...	RGK...	120
MEK1	80	Q D LIPGGDLFSY...L...	CLTS...	124
DUN1	83	L E KIDDGELFERI...IVR...	KTC...	124
RCK1	93	T E LVTGGEIFDRIVQ...	LTC...	134
RCK2	105	Q E LLTGGEIFGEI...V...R...	LTY...	146
RAD53	76	M E FVSGGDLMDFV...AA...	HGA...	117
KIN3	79	M E YCSRGDL...SQMI...K...	KYI...	131
CDC15	75	L E YCAN...GSLRRL...I...SR...	SSTG...	115
STE7	81	M E YSDCGSLDKI...L...	FVQRGT...	135
PBS2	76	M E YMDGGSLDKIY...	DE...	120
MKK1	79	M E YMGGRSLDAIYK...N...	LLERG...	123
MKK2	79	M E YMG...GKSLEATYK...N...	LLKRG...	123
SPS1	76	M E YCGGGCS...SL...L...	SYVNG...	118
NRK1	77	M E HCAGGSLRSL...LRP...	GKID...	116
CLA4	95	M E FM...EGGS...LTDI...E...	SPTNDN...	142
SKM1	93	M E YMEGGCLTDI...L...	VARSN...G...	142
STE20	75	M E YMEGGSLTDV...V...	HCIL...	114
SSK22	79	M E YCEGGSLASL...L...	RIEDEMVT...	120
SSK2	79	M E YCEGGSLAAL...E...	RIEDEMVT...	120
BCK1	83	L E YVAGGGSVG...L...	GRFDEPLIK...	124
STE11	119	L E YVPGGSV...SMLNNY...	GPFEESL...	160
HAL5	118	M E FCASGDLYSL...L...	SNESNN...	181
YKL168C	102	M E FCPAGDLYGMLV...G...	GSSRLI...	147
NPR1	80	M E YCEYDLFAIV...MS...	QTVKEG...	119
YDL214C	82	L E YCEYDLFSLV...MS...	KSKLKG...	121
YDL025C	87	M E YAPYDFF...NLV...MS...	RLHPL...	126
YOR267C	84	M E YCPIDFF...FAV...V...T...	KMSRGE...	123
PTK2	87	M E LGVKDL...QLMERT...	WKNV...	129
PTK1	87	M E MLGLRDLF...AMI...Q...	WRH...	129
SKS1	130	M D YYDRDLFTSIV...D...	KHFVN...	172
YDR247W	129	M D YYPTDLFTSIV...D...	RHFV...	171
ELM1	113	TNWCSL...GELQWKR...D...	ILPQW...	167
CHK1	83	L E MA...DGGDLFDK...I...	DVG...	125
YAK1	81	F E LLSN...NLYELL...K...	KFHGL...	123
SKY1	89	F E VL...GEN...LLALI...K...	EHRG...	132
KNS1	81	T D LYGR...SIYDFMC...S...	IAARPG...	123
YMR291W	96	T O LCQKGDLYEK...I...	QCLD...	138
MPS1	77	M E CGDH...DL...S...	GMP...	119
KSP1	143	M E YCSGGDL...YEAK...	AVPKKT...	185
IME2	109	M E CM...EQ...NLYQMM...K...	RRVFS...	151
YKL171W	77	T E RINDG...TLYDLV...ISWDE...	IPFAER...	127
YGR052W	78	L E YCECGDLYDF...L...	SSPS...	127

CKA1	151	.	IIMHRDVVKPHNVMIDHKNK.	169
CDC7	126	.	IIHHRDILKPTINFNFNLNLNLG.	144
YKL116C	158	.	IIHHRDILKLENILLLKYSFDDIN.	179
IRE1	119	.	IIHHRDILKPQNLVLSVSSRFTADQQTG.	145
SWE1	131	.	IVHLDLKPANVMITFEGN.	149
IKS1	173	.	LIHHRDILKPSNCLLLTPFKS.	192
VPS15	116	.	IVHGDILKTEENILVTSWN.	133
CAK1	151	.	IIHHRDILKPQNIIMLTNNNTSTVSP.	173
BUB1	124	.	IIHGDILKPDNCMIRLEKPGEPGL.	147
YGR262C	132	.	.PYSDLVATTLRKVGRQIG.	150
SLN1	109	.	KHETKDVGPNPMGREE.	125
CTK2	172	.	LAWVIAYDALKLETILVIPQHS.	194
CTK3	123	.	CQDWKSITNQATCKELFLDLS.	144
YGL059W	236	NTLVLG.	DIFQECSAKKYLLEASEES.	260
YIL042C	202	DTNKRMIG.	IIHHRDILPIAQLIKHVSDYVN.	229
MEC1	123	.	TYARSYAVMAMVGHLGLG.	142
DBF4	144	.	ALFQYHADTLINTSSVN.	161
MRK1	121	.	ICHHRDILKPQNLVVDPPTF.	139
RIM11	121	.	VCHRDILKPQNLVVDPETW.	139
YOL128C	128	.	ICHGDILKPSNILLIPSSG.	146
FUN31	130	.	IVHHRDILKDENVIVVDSKG.	147
YOL045W	130	.	IVHHRDILKDENVIVVDSHG.	147
PAK1	140	.	IIHHRDILK PANILLISGDG.	157
YGL179C	135	.	ITHRDILKPSNILLISSNG.	152
SCH9	122	.	IVYRDLKPENILLDANGN.	140
YPK2	119	.	VIYRDLKPENILLDYQGH.	137
CBK1	121	.	FIHHRDILKPDNILLDIRGH.	139
YNR047W	121	.	FIYRDLKPENILLHQSGH.	139
SRA3	119	.	IIYRDLKPENILLDKNGH.	137
TPK3	121	.	IIYRDLKPENILLDKNGH.	139
PKA3	121	.	IIYRDLKPENILLDRNGH.	139
PCK1	123	.	VIYRDLKPENILLTPEGH.	141
YBR028C	145	.	VVYRDLKPENCLLNQRGH.	163
DBF2	119	.	YTHRDILK PENFLIDAKGH.	137
DBF20	119	.	YTHRDILK PENFLIDATGH.	137
PKH1	122	.	IIHHRDILKPENILLDKNMK.	140
PKH2	122	.	IIHHRDILKPENILLDGEMK.	140
YDR466W	125	.	IIHHRDILKPENVLLDRDGR.	143
IPL1	119	.	IIHHRDILKPENILIGFNNV.	137
YCL024W	127	.	IVHHRDILKPENILLDSFYN.	145
GIN4	133	.	IVHHRDILKPENILLDHKYN.	151
HSL1	156	.	ICHHRDILKPENILLDKKNRR.	175
KIN4	125	.	LVHHRDILKLENILLDKHEN.	143
YPL141C	132	.	LVHHRDILKLENILLDKHEN.	150
KIN1	144	.	IVHHRDILK IENIMISDSSE.	162
KIN2	145	.	IVHHRDILK IENIMISSSGE.	163
APG1	144	.	LVHHRDILKPQNLLLSTPLI.	162
CDC5	118	.	VIHHRDILK LGNIFFDS.	133
CMK1	120	.	IVHHRDILKPENNLLYID.	135
CMK2	120	.	VVHHRDILKPENVLVYD.	135
MEK1	124	.	IVHHRDILK LDNIILLCT.	139
DUN1	124	.	IIHHRDILKPENILLN.	139
RCK1	134	.	IVHHRDILKPENNLFEPIPFY.	153
RCK2	146	.	VVHHRDILKPENNLFEPIEFT.	165
RAD53	117	.	ISHRDILKP DNILIE.	131
KIN3	132	IYDRMKPPVKGKNIVI	IYDRMKPPVKGKNIVIHRDILKPGNI FLSYDDSD.	164
CDC15	115	.	EG . VIHHRDILKAANILLSAVN.	134
STE7	135	.	KIIHHRDILKPSNVLINS.KG.	153
PBS2	120	.	NIIHHRDILKPTNILLCSANQG.	139
MKK1	123	.	KVIHHRDILKPQNLILLNE.NG.	141
MKK2	123	.	KVIHHRDILKPQNLILLNE.KG.	141
SPS1	118	.	RKIHHRDILKAANILLNEEGM.	137
NRK1	116	.	NVIHHRDILKAANVLITNEGN.	135
CLA4	142	.	HIIHHRDILKSDNVILLDTRAR.	161
SKM1	142	.	KIIHHRDILKSDNILLNSQGL.	161
STE20	114	.	GVLHHRDILKSDNILLSMEGD.	133
SSK22	120	.	VVHHRDILKPENILLDFNG.	137
SSK2	120	.	IVHHRDILKPENILLDFNG.	137
BCK1	124	.	ILHHRDILKADNLILLDQDG.	141
STE11	160	.	IIHHRDILKGANILLIDIKG.	177
HAL5	181	.	IAHCDELKPENILFQPNGL.	199
YKL168C	147	.	IAHCDELKPENILFYPHGL.	165
NPR1	119	.	LAHRDILKLDNCVINEKGI.	137
YDL214C	121	.	LSHRDILKLDNCVVTRRRGI.	139
YDL025C	126	.	LAHRDILKLDNCVVTKDGI.	144
YOR267C	123	.	LAHRDILKLDNCVMTSQGI.	141
PTK2	129	.	IAHRDILKPENVLISKEGI.	147
PTK1	129	.	IAHRDILKPENVLLSPDGV.	147
SKS1	172	.	IYHCDILKPENVLLDRNDN.	190
YDR247W	171	.	IYHCDILKPENILLDTEDN.	189
ELM1	167	.	CIIHHRDILKPSNILLDEEKK.	185
CHK1	125	.	VAHHRDILKPENILLCAPDK.	143
YAK1	123	.	LIHCDILKPENILLCAPDK.	141
SKY1	132	.	IIHTDILKPENVLMIEGDVVEGIVQMVEALDKQKREAKRLQRHVSRSSDITANDSSDEKWAECQTSMP	198
KNS1	123	.	IIHTDILKPENILICDETHIAQKLPLKTQVQLS.	155
YMR291W	138	.	IVHHRDILKAEANVLFLRLRVNEENEKNLQG.	164
MPS1	119	.	IVHSDELKPANFVVLVKG.	135
KSP1	185	.	IVHHRDILKPENILISGIDWT.	204
IME2	151	.	FFHHRDILKPENILIPSTQYFEKEYMNQIG.	180
YKL171W	127	.	IVHGDILKLENCLLQEGKKSDWKVFLCDFG.	157
YGR052W	127	.	IAHHRDILKPENILLTING.	144

CKA1	169	.	169
CDC7	144	.	144
YKL116C	179	.	181
IRE1	145	.	145
SWE1	149	.	149
IKS1	192	.	D 193
VPS15	133	.	133
CAK1	173	.	173
BUB1	147	.	AHYM 151
YGR262C	150	.	150
SLN1	125	.	125
CTK2	194	.	194
CTK3	144	.	144
YGL059W	260	.	260
YIL042C	229	.	229
MEC1	142	.	142
DBF4	161	.	161
MRK1	139	.	139
RIM11	139	.	139
YOL128C	146	.	146
FUN31	147	.	147
YOL045W	147	.	147
PAK1	157	.	157
YGL179C	152	.	152
SCH9	140	.	140
YPK2	137	.	137
CBK1	139	.	139
YNR047W	139	.	139
SRA3	137	.	137
TPK3	139	.	139
PKA3	139	.	139
PCK1	141	.	141
YBR028C	163	.	163
DBF2	137	.	137
DBF20	137	.	137
PKH1	140	.	140
PKH2	140	.	140
YDR466W	143	.	143
IPL1	137	.	137
YCL024W	145	.	145
GIN4	151	.	151
HSL1	175	.	175
KIN4	143	.	143
YPL141C	150	.	150
KIN1	162	.	162
KIN2	163	.	163
APG1	162	.	.GYHDSKSFHE..L 173
CDC5	133	.	.N.YN .. 136
CMK1	135	.	.KSDESP .. 141
CMK2	135	.	.KSENSP .. 141
MEK1	139	.	.PEPCTR .. 145
DUN1	139	.	.TRRENPSQV.QL 150
RCK1	153	.	.G .. LDGDMQKEDE..F 165
RCK2	165	.	.RSIKPKLR .. KSDDPQTAKADEGIF 187
RAD53	131	.	.QDDPVLVKITDFGL .. YNINEQVDGHEEVNSNYYRDHRVNSGK 191
KIN3	164	.	134
CDC15	134	.	134
STE7	153	.	153
PBS2	139	.	139
MKK1	141	.	141
MKK2	141	.	141
SPS1	137	.	137
NRK1	135	.	135
CLA4	161	.	161
SKM1	161	.	161
STE20	133	.	133
SSK22	137	.	137
SSK2	137	.	137
BCK1	141	.	141
STE11	177	.	177
HAL5	199	.	199
YKL168C	165	.	165
NPR1	137	.	137
YDL214C	139	.	139
YDL025C	144	.	144
YOR267C	141	.	141
PTK2	147	.	147
PTK1	147	.	147
SKS1	190	.	190
YDR247W	189	.	189
ELM1	185	.	185
CHK1	143	.	143
YAK1	141	.	141
SKY1	199	CGSSSN SKSRSIEKDLSKRCFRRPRRHTIITGSQPLPSI SSSNFF FEMRAHFCGSSHNSFSSVSGN RNIPSSINNN SINN	278
KNS1	155	.	.KRR..REAS 162
YMR291W	164	.	.EHH 167
MPS1	135	.	135
KSP1	204	.	204
IME2	180	.	180
YKL171W	157	MSCHFDEKH VYRNDTFDENLSSGN SHRK RKSIE QTNL KYPTTNFL PDDRT NDFD	212
YGR052W	144	.	144

CKA1	169	.....KLRIDWGLAEFYHVNMEYN.....	189
CDC7	144	.....RGVLVDGGLAEAQMDYKSMISSQNDYDNYANTNHDGGYSMRNHEQFCPCIMRNQYSPNSHNQTPPMVTIQ	214
YKL116C	182	RDSPIYCKQNFIELADFGCLCKKIENNE.....	208
IRE1	145	.....AENLRLISDFGLCKKLDSGQS.....	168
SWE1	149	.....LKGDFGMATHLPLEDKS.....	167
IKS1	194	N.ENDNVYDREHNSDEEFFPSIVIGDLGEQLEG.....	225
VPS15	133	.....WCILTDFAAFIKPVYLPEDNPGE.....	156
CAK1	173	.....KLYIIDFGISYDMANNSQTSQEP.....	196
BUB1	152	RNGEDGWENKGIIYLIDFGRSFDMLLPPG.....	180
YGR262C	150	.....LLHWNDVCHGDLTSSNIVLVR.....	171
SLN1	125	.....KNDNGGLEQLQEKNIKP.....	142
CTK2	194	.....IALAILKIAYELLOWDNKNWSSKR.....	216
CTK3	144	.....KLIHYDATSVTHTPS.....	159
YGL059W	260	.....QKFIQDMYFKDIPMPEFIIIEGDTQLSFYFLPTHLKYL.....	299
YIL042C	229	.....DICFVKENTQRTPVLIHPPS.....	249
MEC1	142	.....DRHCENILLDIQTGKVHVDFDLCF.....	168
DBF4	161	.....DQTKNLIFIPHTCNDSTKS.....	180
MRK1	139	.....SFKICDFGSACKLKP.DQPN.....	158
RIM11	139	.....SLKLCDFGSACKLKP.TEPN.....	158
YOL128C	146	.....IAKVCDFGSQAQRLLDD.NTEL.....	165
FUN31	147	.....FVKIIDFGSAAYVKSG.....	163
YOL045W	147	.....FVKLIIDFGSAAYVIKSG.....	163
PAK1	157	.....TVKISDFGVSLAASSTNSSDSSESDEL.....	185
YGL179C	152	.....TVKISDFGVAMST.ATGSTNIQSSHEQL.....	179
SCH9	140	.....IALCDFGLSKADLKDR.....	156
YPK2	137	.....IALCDFGLCKLNMKDNDK.....	155
CBK1	139	.....IKLSDFGLSTGFKHDSNYYKKLLQQDEATNGISKPGTYNANTTDANKRQTMVVDSISLTMSNRQQI	208
YNR047W	139	.....IMLSDFDLSIQAKDSKVPPVKG.....SAQSTLV	168
SRA3	137	.....IKITDFGFAKYVPDV.....	153
TPK3	139	.....IKITDFGFAKYVPDV.....	155
PKA3	139	.....IKITDFGFAKEVQTVT.....	155
PCK1	141	.....IKIADYGLCKDEMWN.....	158
YBR028C	163	.....LVLTDGFLSKKSANDSAVDEEDPENVN.....	190
DBF2	137	.....IKLTDFGLAAGTISNERIESSMKIRLEKIKDLEFPAFTEKSIE.....	185
DBF20	137	.....IKLTDFGLAAGTVSNERIESSMKIRLEEVKNLEFPAFTERSIE.....	185
PKH1	140	.....VKTLDFTGATAKLLN..PTNNSVSKPEYDLSTRSK.....	173
PKH2	140	.....IKLTDFGATAKLLN..PTNNSVSKPEYDLSTRSK.....	171
YDR466W	143	.....LMITDFGAAATID..PSLSDGSACKFNSDSNGSKD.....	175
IPL1	137	.....IKLTDFGWSIIINPPENR.....	155
YCL024W	145	.....IKIADFGMA.ALQTDADL.....	162
GIN4	151	.....IKIADFGMA.ALETEGKL.....	168
HSL1	175	.....IKIADFGMA.ALELPNKL.....	192
KIN4	143	.....LVIITDFGFVNNEFFEDNEL.....	161
YPL141C	150	.....LVIITDFGFVNNEFCSRNEL.....	168
KIN1	162	.....IKIIIDFGLS.NIYDSRKQ.....	179
KIN2	163	.....IKIIDFGLS.NIFDYRKQ.....	180
APG1	174	G.FVGIIYNLPIKIAIDFGFARFLPN.TSL.....	200
CDC5	136	.....LKIIDFGLAAVLANESER.....	154
CMK1	141	.....LKVADFGIAKRLKSDEEL.....	159
CMK2	141	.....LVIADFGIAKQLKGEEDL.....	159
MEK1	145	.....IVLADFGIAKDLNSNKER.....	163
DUN1	151	.....GPWDEDEIDIQVKIADFGLAKFTG.EMQF.....	178
RCK1	166	.....TLGVGGGGIGLVLKLMDFGLAKKLR..NNT.....	192
RCK2	188	.....TPGVGGGGIGIVKLADFGLSKQIF..SKN.....	214
RAD53	146	.....AKVQGNGSFMKTFCGTIAVVAPEV..IRG.....	172
KIN3	192	.....RGSPMDYSQVVVKLGDFGLAKSLETSIQ.....	219
CDC15	134	.....TVKLAIDFGVSTIVNS.....	149
STE7	153	.....QIKLCDFGVSKKLINS.....	169
PBS2	139	.....TVKLCDFGVSGNLVAS.....	155
MKK1	141	.....QVKLCDFGVSGEAVNS.....	157
MKK2	141	.....EIKLCDFGVSGEAVNS.....	157
SPS1	137	.....VKLGDFGVSGHIRST.L.....	153
NRK1	135	.....VKLCDFGVAAQVNQTS.....	152
CLA4	161	.....VKITDFGFCARLTDKRS.....	178
SKM1	161	.....VKITDFGFCVELTEKRS.....	178
STE20	133	.....IKLTDFGFCAQINELNL.....	150
SSK22	137	.....IIKYVDFGTARTVVGSRTTVRNAAVQDFG.....	167
SSK2	137	.....VIKYVDFGAAKKIANNGTRLASMNKIEADGEHEHDVTHVSDSK.....AVK.....	183
BCK1	141	.....ICKISDFGISRKSIDIYS.....	159
STE11	177	.....CVKITDFGFISSKLSPLNKK.....	196
HAL5	199	.....LKIICDFGTSSSVFTQTAWEK.....	217
YKL168C	165	.....LKIICDFGTSSSVFTQTAWER.....	183
NPR1	137	.....VKLIDFGAAVVFSYPSFSK.....	155
YDL214C	139	.....LKLIDFGGASSVFHYPLSS.....	157
YDL025C	144	.....LKLIDFGSAVVFQYPYED.....	162
YOR267C	141	.....LKLIDFGSAVVFRYPFED.....	159
PTK2	147	.....CKLTDFGISDWYHVIPH.....	165
PTK1	147	.....CKLTDFGISDWYHHGSTR.....	165
SKS1	190	.....AYLICDFGLSTKSKYLAPN.....	208
YDR247W	189	.....VFLICDFGLSTTSTYIKPN.....	207
ELM1	185	.....VAKLSDFGSCIFTPQSLFSDAN.....	208
CHK1	143	.....LKLADFGLASQFRRKDGTLR.....	163
YAK1	141	.....PELKIIDFGSSCEEAR.....	157
SKY1	279	.....GIGIKNSNSFLNSVPHSUTRMFINEDSNDNNNNNDNSKNKNNNNNNNSNNNNNEDIMNTPLHEEQLADSLSTFDISNISQS	358
KNS1	163	.....KGKRKILKNPEIKIDFGSAIHEYHP.....	190
YMR291W	168	.....GDFKYDLLAHDVLADFGLAAEYNTSKVN.....	196
MPS1	135	.....ILKIIDFGIANAVPEHTVN.....	154
KSP1	204	.....IKLTDWGLATTDKTS.....	219
IME2	180	.....YQDNYVIKLADFGLARHVKNP.....	203
YKL171W	213	.....ASENLKYQFENRKHQPETPKGMVSSSSHLKHLNQPSSSSSNLFHKPASQPQHQSPHRSPFHGRHKTDFSNLEPEPSKYI	292
YGR052W	144	.....DIKLAIDWGHAIQSPKSN.....	161

CKA1	189	.....VRVASR.....FFKGPELLV.....	205
CDC7	215	NGKVVHNNVNG.....VDLTKGYPKNETRRRIKRANRAGTR.....GFRAPEVLMKCG.....	262
YKL116C	208	.....MCTARGSE.....DYYSPPEILMG.....	227
IRE1	168	.....FRTNLNNPSGTSGWRAPEELLESNNLQCQVETEHSSSRH.....	207
SWE1	167	.....FENEKGDR.....EYIAPEIIS.....	183
IKS1	225	.....ESRLGTGCTGTLEFTAPDLIIQGRPVSSSTLPSR.....	259
VPS15	156	.....FLFYFDTSKKRTCYLAPERFNSKLYQDGK.....	185
CAK1	196	.....MDSKVTDISTGIYKAPEVLFG.....	217
BUB1	180	.....TKFKSNWKADQQDCWEMRAG.....	200
YGR262C	171	.....DGARWTPHLIDFGLGSVSN.....	190
SLN1	142	.....SICLTG.....AEVNEQ.....	154
CTK2	216	.....YSLFETDEKSVNEAYFDIVNFYIN.....	240
CTK3	159	.....DTTLIDATTWYSVKTERTTKDYKES.....	184
YGL059W	299	.....EILRNTYEATMKHYIRKGLEKPEPIIVTVVSNDES.....	334
YIL042C	249	.....QDITFTCIPPYLEYIMTEVFKN.....	271
MEC1	168	.....KGKRLPVPPEIVPFLRTPNLLDALG.....	192
DBF4	180	.....FKKWMQEKAKNFEKTELKKTDDS.....	203
MRK1	158	.....VSYICCSR.....YYRAPELMFG.....	175
RIM11	158	.....VSYICCSR.....YYRAPELIFG.....	175
YOL128C	165	.....KTYFCCSR.....FYRAPEELLN.....	182
FUN31	163	.....PFDVFVGTP.....DYAAPEVLGGNPYEGQ.....	188
YOL045W	163	.....PFDVFVGTM.....DYAAPEVLGGSSYKGK.....	188
PAK1	185	.....ELAKTVGTP.....AFRAPEMCLGEDAFTRYNLKE.....	216
YGL179C	179	.....LKSRALGTP.....AFFAPECLSTEKEYS.....	203
SCH9	156	.....TNTFCGTT.....EYLAPELLLLD.....	174
YPK2	155	.....TDTFCGTP.....EYLAPEILLG.....	173
CBK1	209	QTWR.....KSRRLMAYSTVGT.....DYIAPEIFLY.....	236
YNR047W	169	DTKI.....CSDGFRNTNSFVGTE.....EYIAPEVIRG.....	196
SRA3	153	.....YTLCGTP.....DYIAPEVVST.....	170
TPK3	155	.....YTLCGTP.....DYIAPEVVST.....	172
PKA3	155	.....WTLCGTP.....DYIAPEEVITT.....	172
PCK1	158	.....RTSTFCGTP.....EFMAPEILKE.....	177
YBR028C	190	.....ALYSIIGTP.....EYCAPEILLG.....	209
DBF2	186	NQLR.....EKEINYANSMVGS.....DYMALLEVLEG.....	213
DBF20	186	HNMR.....KTEINYANSMVGS.....DYMALLEVLEG.....	213
PKH1	173	.....SFVGTA.....EYVSPPELLND.....	189
PKH2	171	.....SFVGTA.....EYVSPPELLND.....	187
YDR466W	175	.....NQNCASFVGT.....EYVSPPELLY.....	196
IPL1	155	.....KTVCGTI.....DYLSPPEMVES.....	172
YCL024W	162	.....LETCGSP.....HYAAPEIVSG.....	180
GIN4	168	.....LETCGSP.....HYAAPEIVSG.....	186
HSL1	192	.....LKTCGSP.....HYASPEIVMG.....	210
KIN4	161	.....MKTSCGSP.....CYAAPELVVST.....	180
YPL141C	168	.....MKTSCGSP.....CYAAPELVISA.....	187
KIN1	179	.....LHTFCGSL.....YFAAPEELLKA.....	197
KIN2	180	.....LHTFCGSL.....YFAAPEELLKA.....	198
APG1	200	.....AETLCGSP.....LYMAPEILN.....	217
CDC5	154	.....KYTICGTP.....NYIAPEVLMG.....	172
CMK1	159	.....LYKPAGSL.....GYVAPEV.....	174
CMK2	159	.....IYKAAGSL.....GYVAPEV.....	174
MEK1	163	.....MHTVVGTP.....EYCAPEVGFRANRKAYQSFSRA.....	193
DUN1	178	.....TNTLCGTP.....SYVAPEV.....	193
RCK1	192	.....AKTPCGTI.....EYVASEV.....	207
RCK2	214	.....TKTPCGTV.....GYTAPEV.....	229
RAD53	172	.....KDTSVSPD.....EYEE.....	184
KIN3	219	.....FATTYVGTP.....YMSPEVLMQD.....	239
CDC15	149	.....SALTLAGT.....NWMAPEILGNR.....	169
STE7	169	.....IADTFVGTS.....TMSPERIQGN.....	189
PBS2	155	.....LAKTNIGCQ.....SYMAPERIKSLNPD.....	178
MKK1	157	.....LATTFTGTS.....FYMAPERIQGQ.....	177
MKK2	157	.....LAMTFTGTS.....FYMAPERIQGQ.....	177
SPS1	153	.....KRDTFVGTP.....YWMAPEVVCEVD.....	175
NRK1	152	.....RRQTMAGTP.....YWMAPEVIMEGVY.....	174
CLA4	178	.....KRATMVGTP.....YWMAPEVVKQRE.....	199
SKM1	178	.....KRATMVGTP.....YWMAPEIVNQKG.....	199
STE20	150	.....KRTTMVGT.....YWMAPEVVSRKE.....	171
SSK22	167	.....VETKSLNEMMGTP.....MYMAPETISGSA.....	192
SSK2	183	.....NNENALLDDMMGTP.....MYMAPESTITGST.....	208
BCK1	159	.....NSDMTMRGTV.....FWMAPEMVDT.....	179
STE11	196	.....QNKRASLQGSV.....FWMSPEVVK.....	216
HAL5	217	.....HVHFQSGAMGSE.....PYVAPEEFIRDA.....	241
YKL168C	183	.....RVHAQKGIIIGSE.....PYVAPEEFVDFGE.....	207
NPR1	155	.....NLVEASGIVGSD.....PYLAPEVCIFA.....	178
YDL214C	157	.....QMIEANGIVGSD.....PYLSPEVFYFN.....	180
YDL025C	162	.....TIVKSHGIVGSD.....PYLAPELLKQT.....	185
YOR267C	159	.....GVTMAHGVGSD.....PYLAPEVITSTK.....	183
PTK2	165	.....YTSPVKTQGMIGSPPYTPPEVMYFDACKHYP.....	197
PTK1	165	.....PVQPCQEVRDRDRLAPYAPPEVFMYDSKHYD.....	197
SKS1	208	.....VCVGSSYYMPERILYCLNTTNGIHV.....	235
YDR247W	207	.....VCIGSSYYMPERISFDGRVSSSKSGG.....	234
ELM1	208	FE.....DCFQRELNKIVCTP.....AFIAPELCHLGNSKR.....	239
CHK1	163	.....VSMMDQRGSP.....PYMAPEVLYSE.....	183
YAK1	157	.....TVTYTIQSR.....FYRAPEIILG.....	176
SKY1	359	SDTNGPYISNTMDSNSNVSTDINS PENLIQIKIADLGNACWYDEHYTNSSIQTREYRSPEVLLG.....	421
KNS1	190	.....PVISTR.....HYRAPEIVLG.....	206
YMR291W	196	.....SLKEFVGTIS.....YIAPEIVKCKGVGEMTPDOVG.....	227
MPS1	154	.....IYRETOIGTP.....NYMAPEALVAMN.....YTQNSENQ.....	184
KSP1	219	.....MDRNVGSE.....RYMSPELFDSN.....LDI.....	241
IME2	203	.....YTAYVSTR.....WYRSPEILLR.....	221
YKL171W	293	GSLPYASPELLRYSDARRSKS VEMHIYDSPDSSSQSEISAASSSSNLSSSSTKASAVTNSGVTTSSPGSSTD.....	367
YGR052W	161	.....DFQIGTDM.....YRAPETFSGRVSNCFKKNFD.....	190

CKA1	205	YRMYDYSLDLWSFGTMLASMIF.KREPFFHG.	TSNTDQLVKIVK	247
CDC7	262	....AQSTKIDSVPSVGVILLSLLG.RRFPMFQS.	LDDADSLLELCT	302
YKL116C	227	VPYDGHLSDITWALGVILYSLFE.DRLPFDPP.	PNASARQRSRSA	268
IRE1	208	TVVSSDSFYDPFTKRRLTRSIDIIFSMGCVFYYILSKGKHPFGDKYS.	RESNIIRGIFS	264
SWE1	183	DCTYDYKADIFSLGLMIVEIAANVVLPDNGNAWHKLRSGDLSDAG.	RLSSTDIHSESLSFSDITK	246
IKS1	259	SSHTYNEYTFASDMYSLGMICYFIVF.GELPFEPQLD.	IVDLKVRINKNRF	308
VPS15	185	SNNGRLTKEMDIIFSLGCVIAEIAFEGRPIFNLS.	QLFKYKKSNSYD	229
CAK1	217	VKCYDGGDVWSSLIIISQWFQRETSRMGHVPAMIDD.	GSDDMNSDGSDFRLICS	271
BUB1	200	KPWSYEADYVYLAGVIHSMIFGKFIELTIQLQNCRCKLKN.	PFKRYWKKEIWGVYIFD	255
YGR262C	190	LVEDKGVDLYVLERAILSTHSKHAEKYN.	AWIMEGFEEVYR	230
SLN1	154	....NSLSSKHSRHEGLGSVNLDR.PFLQS.	TGTATSSRNIP	192
CTK2	240	SFDMDCLQRHLPADDLPIGVERFMLEKKKNAGPESG.	LPQIPDHLLN	285
CTK3	184	LQRTESSLKDRLKKLAFFQQFNSDTTAINPDLQTQP.	TNANILLHRMEA	233
YGL059W	334	YLFRISDKAGGVHLHDDENLWSFGKSKERAQESLNNFHKLPG.	LQTVSIYDEVHS	387
YIL042C	271	AFAEQIALGKEHMPIEINLIKPPDELYLIRIRDHG.	GGITPEVEALMFNYSYS	323
MEC1	192	....IIGTEGTFKKSSSEVTALMRKNEVALMN.	VIETIMYD	228
DBF4	203	AVQDVRNEHADQTDEKNSIILLNETETKEPPLKE.	EKENQSIIAE	246
MRK1	175	ATNYSNQDVWSSACVIAELLL.GKPLFSG.	ESGIDQLVEIIK	216
RIM11	175	ATNTNQIDIWSSGCVMAELLL.GQPMFPG.	ESGIDQLVEIICK	216
YOL128C	182	SKDYTTCIDIWSLGCIIIGEMIK.GQPLFKG.	DSANSQLEEEIAK	223
FUN31	188	PQDIWAIGILLYTVVF.KENPBYN.	IDEILE	217
YOL045W	188	PQDIWALGVLLYTYIY.KENPBYN.	IDEILE	217
PAK1	216	NLFRGSCISFMIDIWAVGVTLYCILF.GMLPFFSD.	FELKLFKEIVN	261
YGL179C	203	....CSS....AIDIWSSLGVITYCILF.GKLPFNA.	SGLELFDSIIN	241
SCH9	174	ETGYTKMVDFWSLGVLLIFEMCC.GWSPFFAE.	NNQKMYQKIA	214
YPK2	173	QG.YTKTVWWTLGILLYEMMT.GLPPYYDE.	NVPVMYKKIL	212
CBK1	236	QG.YGQECWDWSLGAIMYECLI.GWPPFCSE.	TPQETYRKIMN	276
YNR047W	196	NG.HTAAVDWWTGLIYIYEMLF.GFTPFKGD.	NTNETFTNL	235
SRA3	170	KP.YNKSIDWWWSFGIILYEMLA.GYTPFYDS.	NTMKTYEKILN	210
TPK3	172	KP.YNKSVDWWWSFGVLIYEMLA.GYTPFYNS.	NTMKTYENILN	212
PKA3	172	KP.YNKSVDWWSLGVLIYEMLA.GYTPFYDT.	TPMKTYEKILQ	212
PCK1	177	QE.YTKAVDWAFGVLLYQMELL.CQSPFSGD.	DEDEVFNAILT	217
YBR028C	209	KA.YSQNCWDWYSLGCILYDMLV.GKPPYTGS.	NHKVIIINKIQQ	249
DBF2	213	KK.YDFTVWDYWSLGCMLFESLV.GYTPFSGS.	STNETYDNLRR	253
DBF20	213	KK.YDFTVWDYWSLGCMLFESLV.GYTPFSGS.	STNETYENLRY	253
PKH1	189	NY.TDSRCDIWAFGCIILYQMLA.GKPPFKAA.	NEYLTFAQVMK	229
PKH2	187	SF.TDYRCDIWAFGCIILFQMLA.GKPPFKAT.	NEYLTFAQVMK	227
YDR466W	196	NQ.CGYGSDIWALGCMYQFVQ.GQPPFRGE.	NELKTFEKIVA	236
IPL1	172	RE.YDHTIDAVALGVLAFELLT.GAPPFEEE.	MKDTTYKRIAA	212
YCL024W	180	LPYEGFASDVWSCGVILFALLT.GRLPFDEEN.	GNVRDLLLKVQK	223
GIN4	186	IPYQGFASDVWSCGVILFALLT.GRLPFDEED.	GNIRTLLLKVQK	229
HSL1	210	RPYHGGPSDVWSCGVILFALLT.GHLPFND.	NIKKLLLKVQS	251
KIN4	180	KAYEARAKDVS CGVILYVYMLA.GYLPWDDDH.	ENPTGDDIARLYKITYQ	228
YPL141C	187	EPYEARKADIWS CGVILYVAILA.GYLPWDDDP.	NNPEGSDIGRLYNYINS	235
KIN1	197	NPYTGPEVDWSFGVFLVFLVC.GKVPFDDE.	NSSVLEHEKIQ	238
KIN2	198	QPYTGPEVDWSFGIVLYVFLVC.GKVPFDDE.	NSSILHEKICK	239
APG1	217	YQKYNAKADLWSVGTVVFEMCC.GTPPPFRAS.	NHLELFKKIKR	258
CDC5	172	KHSGHFSFEVDWSLGVMLYALLI.GKPPFQAR.	DVNTIYERIKC	214
CMK1	174	LTDQDGHGKPCDIWSIGVITYTLLC.GYSAFRAE.	RVQDFLDECTT	217
CMK2	174	LTDQDGHGKPCDIWSIGVITYTLLC.GYSPFIAE.	SVEGFMEECTA	217
MEK1	193	ATLEQRGYDSKCDLWSLGVIITHIMLT.GISPPFYGD.	GSERSIIQNA	237
DUN1	193	LTKKGYTSKVDWLSAGVILYVCLC.GFPPFSDQ.	LGPPSLKEQ.I	235
RCK1	207	FTSKRYSKMDWMSIGCVLFTLLC.GYPPFYEK.	NEKTLKKI	248
RCK2	229	VKDEHYSMKVDMWGIGCVLYTMLC.GFPPFYDE.	KIDLTEKEI	270
RAD53	184	RNEYSSLVDMWSMGCLVYVILT.GHLPFSGS.	TQDQLYKQI	223
KIN3	239	....PYPLSDIWSLGCIVFEMCS.LHPPFQA.	KNYLELQTKIGNKCD	282
CDC15	169	....GASTLSDIWSLGATVVEMLT.KNPPPYHN.	LTDANIYYAVEN.DTY	211
STE7	189	....VYSIKGDVWSLGLMIIELV.T.GEFPLGGH.	NDTPDGILDLLQRI	234
PBS2	178	RATYTVQSDIWSLGLSILEMAL.GRYPYPP.	PETYDNIFSQLSAIVDG	223
MKK1	177	....PYSVTSDVWSLGLTILEVAN.GKPPCSSE.	KMAANIAPFELLMWILT	222
MKK2	177	....PYSTCDDVWSLGLTLEVAG.GRFPFESD.	KITQNVAPIELLMILT	222
SPS1	175	GYNEKADIWSLGIITTYELLK.GLPPPLSK.	Y.DPMKVMTNLPK	215
NRK1	174	....YDTKVDIWSLGIITTYEIA.T.GNPPYCD.	V.EALRAMQLIIK	213
CLA4	199	....YDEKDVWSLGIIMTIEMLE.GEPPYLN.	E.DPLKALYLIATN	238
SKM1	199	....YDEKDVWSLGIIMLIEME.GEPPYLN.	E.DPLKALYLIANN	238
STE20	171	....YGPVKDIWSLGIIMIIEIE.GEPPYLN.	E.TPLRALYLIATN	210
SSK22	192	VKGKLGADDVWALGCVVLEMAT.GRRPWSN.	LDNEWAIMYHVAAG	235
SSK2	208	TKGKLGADDVWSLGVVLEMAT.GRRPWSN.	LDNEWAIMYHVAAG	251
BCK1	179	KQGYSAKVDWSLGCVLEMFA.GKRPWSN.	LEVVAAMFKIGKSK	222
STE11	216	QTATTAKADIWSLGVVIEMFT.GKHPFPD.	FSQMQAIFKIG.TN	258
HAL5	241	....EYDPRLVDCWSGCVYCTMVM.GQYLWKIAI.	PEKDSLFSFLS	283
YKL168C	207	....YYDPRLDICWSGCVVYITML.GHYLWKVAS.	REKDMSYDEFYK	249
NPR1	178	KYDPRPVDIWSSAIIFACMIL.KKFPWKIP.	KLRDNSFKLFC	219
YDL214C	180	EYDPRALDVWSVGIIFFCMIT.RRFPWKYP.	KVKDVQFKAFCS	221
YDL025C	185	SYDPRVADWWSIAIIFYCMVL.KRFPWKAP.	KKSFNSFRLFTE	226
YOR267C	183	....SYDPQCVDIWSLGIYCCMVL.KRFPWKAP.	RDSDDNFRLYCM	224
PTK2	197	EKFQKPYNPPLAMDSYALGIMLITMIN.NIIPFIDSCN.	TDARFREFEVSYDNFIN	250
PTK1	197	TELQQPYDPRALDCYGLGIILMTLVN.NVIPFLESCS.	FDTGFRDYCDAYENFIR	250
SKS1	235	DECCSSLPTDTGDIWSLGIILNLTC.IRNPKWLKAH.	QKEDNTFQHFAN	282
YDR247W	234	HKLGVCPSCNCGLDWSLGIILNLTC.IRNPKWLKAH.	KTEDNTYYFTK	281
ELM1	239	DFVTDGFKLIDWSLGVITYCILY.NELPFEGE.	NEFETYHKIE	281
CHK1	183	EGYYADRTDIWSIGILLFVLLT.QOTPWELP.	SLENEDFVFFIE	225
YAK1	176	....IPYSTSIDMWSLGCIVAEFL.GIPIFPGASEYQNLTTRIIDLGYPPSWMIDMGKNSGKFMKILAP	241	
SKY1	421	....APWGCAGDIWSSTAICLIFELIT.GDFLFPED.	GHSYTKDDDHIAQIE	467
KNS1	206	....LGWSFPCDIWSLGIACVLVELV1.GESLYPIHENLEHMAMMQRING.	TPFPTDIIDKMFYKSKH	266
YMR291W	227	KLDKYGCPDIWALGVITYFMAF.GYTPFDCT.	TDDETLECISK	269
MPS1	184	....HEGNWKVGRPSDMWSCGCIYQMIY.GKPPYGS.	FQGQNRLLLA	229
KSP1	241	....KERKEPYDCAKVDLWAMGIVFLNIVF.HKNPFSIAN.	QSDKSFCYFAA	287
IME2	221	....SGYYSKPLDIWAFGCVAVEVTW.FRALFPG.	ANEIDQIWKIE	262
YKL171W	367	FPCIVSPLGPASDILWALGVMLYTMLV.GKLPFNHEFEP.	IRSЛИKVGЕFDRFSL	420
YGR052W	190	RSSAPPLYNTYQADYWSLGAITYL MF.GDCLFRVSK.	SKKVQHLKNFDEFEK	240

YCK1	225	KKRSTNVYDLAQQ.	780	. . . . .	LPVQFGRYLEIVR.	247
YCK2	225	KKRLTNVYDLAQQ.			LPIQFGRYLEIVR.	250
YCK3	258	TKQKLNPDLLNN.			AIPYQFATYLKYAR.	285
HRR25	223	KKLNVSVETLCRG.			LPLEFQEYMAICK.	248
PRK1	241	YPSFP.			QYSDRLKMLNR.	256
ARK1	242	FPLYP.			NYSEQLKGGLR.	257
YBR059C	249	FPVN.			KYSSKLINLII.	263
FUS3	226	IIGTPHSDNDLRCIESPRAREYIKSLPMYPAAPPLEKMF.			RVNPKGIDLLQR.	276
HOG1	210	LLGSPPKD.VINTICSENTLKFVTSPLPHRDPIPFSERFK.			TVEPDAVDILEK.	259
SLT2	226	VLGTPPDE.TLRRIGSKNVQDYIHQLGFIPKPVFVNLYP.			NANSQALDLLEQ.	275
YKL161C	226	ILGTPPEE.TLQEIASQKVYYNIFQFGNIPGRSFESILP.			GANPEALLELLKK.	275
CDC28	220	VLGTPNEAIWPDIVYLPDFKPSFPQWRKDKLSQVVP.			SLDPRGIDLLDK.	267
PHO85	218	IMGTPNESLWPSVTKLKPKNPNIQQRPPRDLRQVLQPHTKE.			PLDGNLMDFLHG.	270
KIN28	214	ALGPTDRDWPEVSSFMFTYN.KLQIYPPPSRDELRKRF..FI.			AASEYALDFMCG.	263
CTK1	214	IMGPTINSWPTLYDMPPWMIMPQQTTKYVNNFSEKFKSVL.			PSSK.CLQLAIN.	266
SSN3	317	VLGTPDQKIQWPELEYKPEYDQIT..KFPKYRDNLATWYHSAG.			GRDKHALSLLYH.	368
MRK1	217	IMGIPTKD...EISGMNPNEYDHVFNPNIKPITLAEIFK.			AEDPDTLDDLLTK.	263
RIM11	217	ILGTPSKQ...EICSMNPNEYMEHKFPQIKPIPLSRVFK.			KEDDQTVEFLAD.	263
YOL128C	224	LLGRFPKSIK..NSQELQDSLNDQFKKKFMHWFP.			SIEFFDVEFLLK.	268
FUN31	218	GDLKFNNAEEVS.			EDCIELIK.	237
YOL045W	218	GELRFDKSEHVS.			EECISILIK.	237
PAK1	262	DPLKFPTFKEIQSNKV.			SKVSCEEYEMAKDLL.	294
YGL179C	242	KPLEFPSYEEMLNAGAT.			SGIT.MEEYTDAKDLLK.	273
SCH9	214	.FGKVKFPR.			DVLSQEGRSFVK.	234
YPK2	212	.QQPLLFP.			DGFDPAAKDLLI.	231
CBK1	277	FEQTLQZFPD.			DIHISYEADELI.	297
YNR047W	235	.KNEVSFPNN.			NEISRTCKDLIK.	256
SRA3	210	.AELRFP.			PFNFNEDVKDLLS.	228
TPK3	212	.AELKFP.			PFHPDQAQDLLK.	230
PKA3	212	.GKVVYP.			PYFHPDVVDLLS.	230
PCK1	217	.DEPLYP.			IDMAGEIVQIFQ.	235
YBR028C	250	NKQGPKIP.			FYLSEGGMKDILN.	269
DBF2	254	WKQTLLRRPRQ.			SDGRAAFSDRTW.	275
DBF20	254	WKTKTLLRRPRT.			EDRRAAFSDRTW.	275
PKH1	230	IQYAFTAG.			FPQIVVKDLVK.	247
PKH2	228	VQYAFTPG.			FPLIIRDLVK.	245
YDR466W	237	LDYPWGPNNRINN.			STSPINPLVINLVQ.	263
IPL1	213	LDIKMPSN.			ISQDAQDIL.	230
YCL024W	224	GQFEMPNDTE.			ISRDAQDLIG.	243
GIN4	230	GEFEMPSDDE.			ISREAQDLIR.	249
HSL1	252	GKYQMPSN.			LSSEARDLIS.	269
KIN4	229	TPLKFPEY.			ITPIPRDLLR.	246
YPL141C	236	TPLKFPDY.			ILPIPDLLR.	253
KIN1	239	GKVEYPQH.			LSIEVISLIS.	256
KIN2	240	GKVDYPSH.			LSIEVISLLT.	257
APG1	259	AND..VITFP.			SYCNIEPELKELIC.	280
CDC5	215	R...DFSFP.			RDKPISDEGKILR.	234
CMK1	218	GEYPVKFHRS.			YWDSVSNAKQFIL.	241
CMK2	218	SRYPVTFHMP.			YWDNISIDVKRFL.	241
MEK1	238	KIGKLNFKLK.			QWDIVSDNAKSFVK.	261
DUN1	236	LQAKYAFYSP.			YWDKIDDSVHLIS.	259
RCK1	249	SRGDYEFALP.			WWDNISSSGAKNAVLT.	272
RCK2	271	SRGEYTFLKP.			WWDEISAGAKNAV.	294
RAD53	224	GRGSYHEGPL.			KDFRISEEARDFID.	247
KIN3	283	TV.	....E.		YYSRGLNAAIH.	297
CDC15	212	YPP....S.			SFSEPLKDFLIS.	226
STE7	235	PSPRLPKDR.			IYSKEMTDFVN.	254
PBS2	224	PPPRLPSD.			KFSSDAQDFVVS.	242
MKK1	223	FTPTELKDEPESN.			IIWSPSFKSFID.	246
MKK2	223	FSPQLKDEPELD.			ISWSKTFRSFID.	246
SPS1	216	KPPKLQG.			PFSDAAKDFVA.	233
NRK1	214	KPPRLEDR.			SYSTSLLKEFIA.	232
CLA4	239	GTPKLKHPE.			SLSLEIKRFLS.	258
SKM1	239	GSPKLHRPE.			SVSKQTQFQFLD.	258
STE20	211	GTPKLKEPE.			NLSSSLKKFLD.	230
SSK22	236	RIPQLPNRD.			EMTAAGRALLG.	255
SSK2	252	HTPQFPTKD.			EVSSAGMKFL.	271
BCK1	223	SAPPEDTLTLP.			LISQIGRNFLD.	244
STE11	259	TTPEIPS.			WATSEGKNFLR.	276
HAL5	284	EIKDDGQFYLFEE.			LRHVSELNRLKIALY.	313
YKL168C	250	EMQRKNQFRVFEF.			LKHVSELATNRKIALY.	279
NPR1	220	GRDCDSLSSLVTRTPDPPSYDESHSTEKKPESSNNVSDPNN.			VNIGPQLLHSLPEETQHIVG.	283
YDL214C	222	GRGVSSFKDLVTR.	..PATDDSNNYD.		IDMGPNFILHRLPEETHKIMR.	273
YDL025C	227	EPEDE..DDIVRG.	P.		NKILRLLPRHSRTIIG.	254
YOR267C	225	FDDIE..HDYVES.	..ARHHEELLKE.		RKEKRQRFNLHSDCSA1NQ.	264
PTK2	251	HQNPHFRDKGCHKPG.		P.	GSEYSLARNFKNTDATRIAWR.	287
PTK1	251	LHDRAFRDRNRAITAR.			GREWSITWLISRTDMHLLAHGG.	287
SKS1	283	DNN.			VLKKILPISDELFTVLT.	302
YDR247W	282	DPN.			ILKQILPLSDDFYSLIS.	301
ELM1	282	VSLSSKINGN.			TLDNLVIKRLLEKDV.	306
CHK1	226	NDGNLNNGW.			PWSKIEFTHNLNLR.	247
YAK1	242	EESSSSTQKHRMKTIEEFCREYNIVEKPSKQYFKWRKLPDIIRNYRYPKSIQNSQELIDQEMQNRECLIHFL.				313
SKY1	468	LLGELPSYSLRNQGYTRFFFNSRGLRNISKLKFWP.			LEDVLTEKYKFSKDEAKEISDFL.	526
KNS1	267	LGNGNSPSDLNSTVIKHFDRKTLQLQWPEKNKRGDTITTEKSMKRVLQSCDRLDIYISKVQLKQDGSISINWNLPPEKNW.			KYEQFWNFVQ.	346
YMR291W	270	CDYYVDEQMMHDP.				292
MPS1	230	PDVKIPFPEHTSNN.			EKIPKSAIELMK.	255
KSP1	288	NREALFDVFS.			TMAYDFFQVLR.	308
IME2	263	VLGTPIKRSDFVNTHITAPPGGFWDDASNLVHKLN.			LKLPPYVEGSSLHDHLLSSSQ.	318
YKL171W	421	AQVCKFDRKKNE.			GTIGQGLYDTVIG.	445
YGR052W	241	DPFAFIYRKYVVVPLSLCGYNDDEDLHVSQHTRQYIWQDLPDIYDVFHLCKIMVDTLLKVSNAKERSMENFIN.				313

CKA1	248	VLGTSDFEKYLLKYEITLPRFYDMDQYIRKPWHRFIN.....	.DGNKHLSGNDEIIDLIDN.....	303
CDC7	303	IFGWKELRKCAALHGLGFEASGLIWDKPNGYSNGLKEFVYDLLNKECTIG...	.TFPEYSVAFETFGFLQQELHDRMSIEP	379
YKL116C	269	TSHRIARFDWR.....	.WYRLSDYKTNVG.....	291
IRE1	265	LDEMCKLHDR.....	.SLIAEATDLIS.....	285
SWE1	247	VDTNDLFDFERDNISGNSNNAGTSTVHNNSNIINNPNMNNGN.....	.DNNNVNTAATKNRLLILHKSSKIPAWVP	314
IKS1	309	DTEGMIEKHQAMK.....	.LKPIDRIFHLM.....	334
VPS15	230	VNREFLMEEMN.....	.STDLRNLVLD.....	250
CAK1	272	IFEKLGIPISIQKWEVEVAQHGSVDAFGMFGADGDGKYVLDQEKDQVQISIVERNMPRLDEIADVVKVQKQKFIN.....	.QALPMTEKIVEIRN.....	342
BUB1	256	LLLNSGQASN.....	.AKKLKEVTK.....	279
YGR262C	231	EQGAKG.....	.TSVKILVVEDN.....	245
SLN1	193	VKDDDKNE.....	.NNVQERRYVLS.....	306
CTK2	286	ADPYITITRD.....	.TSWYIERPSNDILDESE.....	260
CTK3	234	DRELHKRSKE.....	.ITLKPYMHSTSLEP.....	413
YGL059W	388	HTKYNNSKLQLSQS.....	.FGLPMCKTLELFGG.....	364
YIL042C	324	THTQQSADSESTDLPGEQINNVSGMG.....	.VLRNKIRGIDPQDG.....	254
MEC1	229	RNMDHSIQKALK.....	.KELAATPKLN.....	264
DBF4	247	ESNKYPQR.....	.AEDPDTLDDLTLK.....	263
MRK1	217	IMGIPTKD....EISGMNPNEYDHVFPNIKPITLAEIFK.....	.KEDDQTVEFLAD.....	263
RIM11	217	ILGTPSKQ....EICSMNPNEYMEHKFPQIKPIPLSRVFK.....	.SIEFFDVEFLLK.....	268
YOL128C	224	LLGRFPKS....SIK....NSQELQDSLNDQKFKKFMHWFP.....	.EDCIELIK.....	237
FUN31	218	GDLKFNNAAEV.....	.EECISILIK.....	237
YOL045W	218	GELRFDKSEHVS.....	.SKVSCEEYEMAKDILL.....	294
PAK1	262	DPLKFPTFKEIQSNKV.....	.SGIT.MEEYTDAKDILLK.....	273
YGL179C	242	KPLEFPSYEEMLNAGAT.....	.DVLSQEGRSFV.....	234
SCH9	214	.FGKVKFPR.....	.DGFDPAAKDILL.....	231
YPK2	212	.QQPLLFP.....	.DIHISYEADELI.....	297
CBK1	277	FEQTLQFPD.....	.NEISRTCKDLIK.....	256
YNR047W	235	.KNEVSFPNN.....	.PFFNEDVKDLLS.....	228
SRA3	210	.AELRFP.....	.PFFHPDAQDLLK.....	230
TPK3	212	.AELKFP.....	.PYFHPDVVDLLS.....	230
PKA3	212	.GKVVYP.....	.IDMAGEIVQIFQ.....	235
PCK1	217	.DEPLYP.....	.FYLSEGMDILN.....	269
YBR028C	250	NKQGPKIP.....	.SDGRAAFSDRTW.....	275
DBF2	254	WKQTLLRRPRQ.....	.EDRRAAFSDRTW.....	275
DBF20	254	WKKTLRRRPT.....	.FPQIVKDLVK.....	247
PKH1	230	IQYAFTAG.....	.FPLIIRDLVK.....	245
PKH2	228	VQYAFTPG.....	.STSPINPLVINLVQ.....	263
YDR466W	237	LDYPWGPNNRINN.....	.ISQDAQDIL.....	230
IPL1	213	LDIKMPSN.....	.ISRDAQDLIG.....	243
YCL024W	224	GQFEMPNDTE.....	.ISREAQDLIR.....	249
GIN4	230	GEFEMPSDDE.....	.LSSEARDLIS.....	269
HSL1	252	GKYQMPSN.....	.ITPIPRDILR.....	246
KIN4	229	TPLKFPEY.....	.ILPIPRLDLR.....	253
YPL141C	236	TPLKFPDY.....	.LSIEVISL.....	256
KIN1	239	GKVEYPQH.....	.SYCNIEPELKELIC.....	280
KIN2	240	GKVDYPSH.....	.RDKPISDEGKILR.....	234
APG1	259	AND..VITFP.....	.YWDSVSNKAKQFIL.....	241
CDC5	215	R....DFSFP.....	.YWDNISIDVKRFL.....	241
CMK1	218	GEYPVKFHRC.....	.QWDIVSDNAKSFV.....	261
CMK2	218	SRYPVTFHMP.....	.YWDKIDDSVHLIS.....	259
MEK1	238	KIGKLNFKLK.....	.WWDNISSSGAKNAV.....	272
DUN1	236	LQAKYAFYSP.....	.WWDEISAGAKNAVA.....	294
RCK1	249	SRGDYEF LAP.....	.KDFRISEEARDFID.....	247
RCK2	271	SRGEYTFKL.....	.LSIEVISL.....	257
RAD53	224	GRGSYHEGPL.....	.LSIEVISL.....	257
KIN3	283	TV.....E.....	.SYCNIEPELKELIC.....	280
CDC15	212	YPP.....S.....	.RDKPISDEGKILR.....	234
STE7	235	PSPLPKDR.....	.YWDSVSNKAKQFIL.....	241
PBS2	224	PPPRLPSD.....	.YWDNISIDVKRFL.....	241
MKK1	223	FTP EPLKDEPESN.....	.QWDIVSDNAKSFV.....	261
MKK2	223	FSPQLKDEPELD.....	.YWDKIDDSVHLIS.....	259
SPS1	216	KPPKLQG.....	.WWDNISSSGAKNAV.....	272
NRK1	214	KPPRLEDR.....	.WWDEISAGAKNAVA.....	294
CLA4	239	GTPKLKHPE.....	.KDFRISEEARDFID.....	247
SKM1	239	GSPKLHRPE.....	.LSIEVISL.....	257
STE20	211	GTPKLKEPE.....	.LSIEVISL.....	257
SSK22	236	RIPQLPNRD.....	.SYSTSLKEFIA.....	232
SSK2	252	HTPQFPTKD.....	.SLSLEIKRFL.....	258
BCK1	223	SAPPEDTL.....	.SVSKQTQFLD.....	258
STE11	259	TTPEIPS.....	.NLSSSLKKFLD.....	230
HAL5	284	EIKDDGQFYLFEE.....	.EMTAAGRALLG.....	255
YKL168C	250	EMQRKNQFRVFREE.....	.EVSSAGMKFL.....	271
NPR1	220	GRDCDSLSSLVTRTPDPPSYDESHSTEKKPESSNNVSDPNN.....	.LISQIGRNFLD.....	244
YDL214C	222	GRGVSSFKDLVTR.....PATDDSNNYD.....	.WATSEGKNFLD.....	276
YDL025C	227	EPEDE..DDIVRG.....P.....	.LRHVSELNRLKIALY.....	313
YOR267C	225	FDDIE..HDYVES.....ARHHEELLKE.....	.LKHVNSELATNRKIALY.....	279
PTK2	251	HQNPHFRDKGCHKPG.....	.VNIGPQLLHSLPEETQHIVG.....	283
PTK1	251	LHDRAFRDRNRAITAR.....	.IDMGPNFILHRLPEETHKIMR.....	273
SKS1	283	DNN.....	.NKILRLLPRHSRTII.....	254
YDR247W	282	DPN.....	.RKEKRQRFNHSDCSA1NQ.....	264
ELM1	282	VSLSSKINGN.....	.P.....	287
CHK1	226	NDGNLNWNG.....	.GSEYSLARNFKNTDATRIAWR.....	287
YAK1	242	EESSSSTQKHRMKTIEEFCREYNIVEKPSKQYFKWRKLPDIIRNYRYPKSIQNSQELIDQEMQNRECLIHFL.....	.GREWSITWLISRTDMHLLAHWG.....	287
SKY1	468	LLGELPSYLLRNGKYTRFFFNSRGLRNISKLKFWP.....	.VLKKILPISDELFTVLT.....	302
KNS1	267	KLGNSPSDSLNSTVIKHFDRKTLQLQWPEKNKGRTDTTEKSMKRVLQSCDRLDIYISKVQLKQDGYDSLSISINWNLPPEKNW.....	.ILKQILPLSDDFYSL.....	301
YMR291W	270	CDYYVDEQMMHDP.....	.TLNDLVIKRLLEKDV.....	306
MPS1	230	PDVKIPFPEHTSNN.....	.PWSKIEFTHFLNLLR.....	247
KSP1	288	NREALFDVFS.....	.EKIPKSAIELMK.....	255
IME2	263	VLGTPIKRSDFVNNTNHITAPPGGFWDDASNLVHKLN.....	.TMAYDFFQVLR.....	308
YKL171W	421	AQVCKFDRKKNE.....	.LKLPPYVEGSSLHDHLLSSSQ.....	318
YGR052W	241	DPFAFIYRKYVVVPLSLCGYNDDEDLHVSQHQTRQYIWQDLPDIYDVFHLCKIMVDTLLKVSNAKERSMENFIN.....	.GTIGQGLYDTVIG.....	445

CKA1	303	.....	L L R Y D H Q E R L T A K E A M G H P W F	324
CDC7	380	Q L P D P K T N M D A V D A Y E L K K Y Q E E I W S D H Y W C F Q V L E Q C F E M D P Q K R S S	A E D L L K T P F F	437
YKL116C	291	.....	K Q I V E N T L T R K N Q R W S I N E I E Y S P E V	317
IRE1	285	.....	Q M I D H D P L K R P T A M K V L R H P L F	307
SWE1	315	K F L I D G E S	L E R I V R W M I E P N Y E R R P T A N Q I L Q T E E C L	351
IKS1	334	.....	A L L Q P N N D A R P T A K T V E E T L D E M L	358
VPS15	250	.....	M I Q L D P S K R L S C D E L N K Y R G I F	274
CAK1	342	.....	C I L G M V S F S P N E R W S C Q R I L Q E L E K P	368
BUB1	279	.....	L I E S H L E Q H A E N H L R N V I L S I E E E L S H F Q Y K G K P S R R F	317
YGR262C	245	.....	R F E E V R L R G R K R S M L G	261
SLN1	211	.....	H V N Q E V I K R M L N L E G I E N	229
CTK2	306	.....	L E L I N G E S S I N S S T R H A	323
CTK3	260	.....	F K S L W T H F E T T D S G F D K D D Y K N I K A L N D I A K A S Y I Y	296
YGL059W	413	.....	. M S Y P S I I N G H I K Y E T P L I E L S G L L D T S I L G L G	445
YIL042C	364	.....	. K I D V Q S L L G W G T D V Y I K L K G P S K T A L L S K K	394
MEC1	254	.....	. L V L S V A G Q T E T L I Q E A T S E D N L S K M Y I G W L P F W	287
DBF4	264	.....	. H P V L A T F A R Q E T E E V P D D L C T L K T K S R Q	292
MRK1	263	.....	. T L K Y H P C E R L V P L Q C L L S S Y F	284
RIM11	263	.....	. V L K Y D P L E R F N A L Q C L C S P Y F	284
YOL128C	268	.....	. V L T Y D A T E R C D A R Q L M A H E F F	289
FUN31	237	.....	. S I L N R C V P K R P T I D D I N N D K W L	259
YOL045W	237	.....	. R I L T R E V D K R P T I D E I Y E D K W L	259
PAK1	294	.....	. K L L E K N P Q K R M T I P A I K K H P F V	316
YGL179C	273	.....	. K L L Q K D P D K R I K L A D I K V H P E M	295
SCH9	234	.....	. G L L N R N P K H R L G A I D D G R E L R A H P F F	260
YPK2	231	.....	. G L L S R D P S R R L G V N G T D E I R N H P F F	256
CBK1	297	.....	. R R L L T H A D Q R L G R H G G A D E I K S H P F F	323
YNR047W	256	.....	. K L L T K N E S K R E L G C K M G A A D V K K H P F F	282
SRA3	228	.....	. R L I T R D L S Q R L G N L Q N G T E D V K N H P F F	255
TPK3	230	.....	. K L I T R D L S E R L G N L Q N G S E D V K N H P F F	257
PKA3	230	.....	. K L I T A D L T R K I G N L Q S G S R D I K A H P F F	257
PCK1	235	.....	. G L L T K D P E K R L G A G P R D A D E V M E E P F	262
YBR028C	269	.....	. A L L K K E T A K R W N V D K Y W A K T G A N N K P T K	297
DBF2	275	.....	. D L I T R L I A D P I N R L R S F E H V K R M S Y F	301
DBF20	275	.....	. D L I T R L I A D P I N R V R S F E Q V R K R M S Y F	301
PKH1	247	.....	. K L L V R D P N D R L T I K Q I K A H L E F F	269
PKH2	245	.....	. K I L V K N L D R R L T I S Q I K E H H E F F	267
YDR466W	263	.....	. K I L V I E V N E R I S L E Q I K R H P Y F	285
IPL1	230	.....	. K L L K Y D P K D E M R L G D V K M H P F I	252
YCL024W	243	.....	. K I L V V D P R Q R I K I R D I L S H P L L	265
GIN4	249	.....	. K I L T V D P E R R I K T R D I L K H P L L	271
HSL1	269	.....	. K I L V I D P E K R I T T Q E I L K H P L I	291
KIN4	246	.....	. R I L V P N P R R E I N L Q T I K R H V W L	268
YPL141C	253	.....	. R M L V S D P K K R I N L K Q I K K H E W L	275
KIN1	256	.....	. K M L V V D P K R R A T L K Q V V E H H W M	278
KIN2	257	.....	. R M I V V D P L R R A T L K N V V E H P F M	279
APG1	280	.....	. S L L T F D P A Q R I G F E E F F A N K V V	302
CDC5	234	.....	. D I L S L D P I E R P S L T E I M D V W F	256
CMK1	241	.....	. K A N L L D P S K R P T A A E L L E D P W I	263
CMK2	241	.....	. K A L R L N P A D R P T A T E L L D D P W I	263
MEK1	261	.....	. D L L Q T D V V K R L N S K Q G L K H I W I	283
DUN1	259	.....	. N L L V L N P D E R Y N I D E A L N H P F W	281
RCK1	272	.....	. H L L E V D P N K R Y D I D D F L N D P W L	294
RCK2	294	.....	. K L L E L E P S K R Y D I D Q F L L D P W L	316
RAD53	247	.....	. S L L Q V D P P N N R S T A A K A L N H P F W I	269
KIN3	297	.....	. S M I D V N L R T R P S T F E L L Q D I Q I	319
CDC15	226	.....	. K C F V K N M Y K R P T A D Q L L K H V W I	248
STE7	254	.....	. R C C I K N R E R S S I H E L L H H D L I	276
PBS2	242	.....	. L C L Q K I P E R R P T Y A A L T E H P W L	264
MKK1	246	.....	. Y C L K K D S R E R P S P R Q M I N H P F W I	268
MKK2	246	.....	. Y C L K K D A R E R P S P R Q M L K H P W I	268
SPS1	233	.....	. G C L V K T P A D R P S A Y N L L S F E E V	255
NRK1	232	.....	. L C L D E D P K E R L S A D D L L K S K E I	254
CLA4	258	.....	. V C L C V D V R Y R A S T E E L L H H G E F	280
SKM1	258	.....	. A C L Q V N V E S R A S V R K L L T F E E L	280
STE20	230	.....	. W C L C V E P E D R A S A T E L L H D E Y I	252
SSK22	255	.....	. K V F G S R P H Y E G Y C C G T T D R P L D D T N P	281
SSK2	271	.....	. R C L I Q N P S K R A S A V E L L M D P W I	293
BCK1	244	.....	. A C F E I N P E K R P T A N E L L S H P E S	266
STE11	276	.....	. K A F E L D Y Q Y R P S A L E L L Q H P W L	298
HAL5	313	.....	. R T F Q V D P T K R I T I E Q L L Q S S W M	335
YKL168C	279	.....	. R I F Q W E P R K R I S V G K L L D M Q W M	301
NPR1	283	.....	. R M I D L A P A C R G N I E E I M E D P W I	305
YDL214C	273	.....	. R I L E V S P F R R I T I N G I L Q D G	293
YDL025C	254	.....	. R M L A L E P K Q R V L M N D V V K D D	274
YOR267C	264	.....	. Q Q P A H E S N I K T V Q N Q V P N T P	284
PTK2	287	.....	. L A D P N P A T R Y T M D D L F N D P F F	308
PTK1	287	.....	. S L T Q K P P P T P S T T S S K T H G S K L R L V L M P T T N M C V R	323
SKS1	302	.....	. K I L Q L N P Y T R I D M K T L M S E V S S L T S F T	329
YDR247W	301	.....	. K I L Q V N P K N R E M S L Q E L M K E V S S	323
ELM1	306	.....	. T L R I S I Q D L V K V L S R D Q P I D S R N H S Q I	333
CHK1	247	.....	. K I L Q P D P N K R V T L K A L K L H P W V	269
YAK1	313	.....	. G G V L N L N P L E R W T P Q Q A M L H P F I	336
SKY1	526	.....	. S P M L Q L D P R K R A D A G G L V N H P W L	549
KNS1	347	S L I N S K L A W K R Q T H S S S S T T D E L D K E T F L F W Y W F I D L L R K M F E F D P T K R I T	A K D A L D H E W F	408
YMR291W	292	.....	. C C F T I D P A V R R S A K N L K Q H P E I	314
MPS1	255	.....	. A C L Y R N P D K R W T V D K V L S S T E L Q P F M	281
KSP1	308	.....	. Y S L T I D P A N R D L K M M R T E L Q N L S E Y T	334
IME2	318	.....	. L S D L S E V V K K C R L W D P N E R A T A Q E L C E M P F	349
YKL171W	445	.....	. C L T I D L D K R W K L K R I E E V L	464
YGR052W	313	.....	. E V D S A W N K D S S M D S C F S Y Q N K I D L F W E Q W S V N T E T V P A K F Q L K	356

<p>YCK1 890 900</p> <p>YCK2</p> <p>YCK3</p> <p>HRR25</p> <p>PRK1</p> <p>ARK1</p> <p>YBR059C</p> <p>FUS3</p> <p>HOG1</p> <p>SLT2</p> <p>YKL161C</p> <p>CDC28</p> <p>PHO85</p> <p>KIN28</p> <p>CTK1</p> <p>SSN3</p> <p>MRK1</p> <p>RIM11</p> <p>YOL128C</p> <p>FUN31</p> <p>YOL045W</p> <p>PAK1</p> <p>YGL179C</p> <p>SCH9</p> <p>YPK2</p> <p>CBK1</p> <p>YNR047W</p> <p>SRA3</p> <p>TPK3</p> <p>PKA3</p> <p>PCK1</p> <p>YBR028C</p> <p>DBF2</p> <p>DBF20</p> <p>PKH1</p> <p>PKH2</p> <p>YDR466W</p> <p>IPL1</p> <p>YCL024W</p> <p>GIN4</p> <p>HSL1</p> <p>KIN4</p> <p>YPL141C</p> <p>KIN1</p> <p>KIN2</p> <p>APG1</p> <p>CDC5</p> <p>CMK1</p> <p>CMK2</p> <p>MEK1</p> <p>DUN1</p> <p>RCK1</p> <p>RCK2</p> <p>RAD53</p> <p>KIN3</p> <p>CDC15</p> <p>STE7</p> <p>PBS2</p> <p>MKK1</p> <p>MKK2</p> <p>SPS1</p> <p>NRK1</p> <p>CLA4</p> <p>SKM1</p> <p>STE20</p> <p>SSK22</p> <p>SSK2</p> <p>BCK1</p> <p>STE11</p> <p>HAL5</p> <p>YKL168C</p> <p>NPR1</p> <p>YDL214C</p> <p>YDL025C</p> <p>YOR267C</p> <p>PTK2</p> <p>PTK1 324 NLLSKPLRTRIRGVISLQMLL 345</p> <p>SKS1</p> <p>YDR247W</p> <p>ELM1</p> <p>CHK1</p> <p>YAK1</p> <p>SKY1</p> <p>KNS1</p> <p>YMR291W</p> <p>MPS1</p> <p>KSP1</p> <p>IME2</p> <p>YKL171W</p> <p>YGR052W 357 NFEKPCLIQDGK</p>	<p>LRLRYDHQEFLT AKEAMGHFWF 324</p> <p>EIWSDHYWCFCVLEQCFCMDPQKRSS AEDLLKTPPF 437</p> <p>KQIVVENTLTKRN QRWSINEIYESPV 317</p> <p>QMIDHDPLKRP AMKVVLRHPLF 307</p> <p>LERIVRWMIIEPNYERRP ANQILQTEECL 351</p> <p>ALLQPNNDAKRP AKTVVEETLDEML 358</p> <p>MIQLDPSKELS CDELNLKYRGIF 274</p> <p>CILGMVSFSFPNEHWS CQRILQLELEKP 368</p> <p>LIESHLHQHAENHLRVNVLISIEELSHFQYKGKPSRFF 317</p> <p>RFEEVRLRGRKR SMLG 261</p> <p>HVNQEVIKRMLN LEGIEN 229</p> <p>LELINGESSIN SSTRH 323</p> <p>FKSLWTHFETTDGFDKDDYKNIKALNDIAKASYIY 296</p> <p>MSYPSIINGHIKYETPLIETLSGGLLDTSILGLG 445</p> <p>KIDVQSLLGWGWTDVYIKLKGPSTKALLSKK 394</p> <p>LVLNSVAQQTETLQIEATSEDNLSSKMVIGWLPFW 287</p> <p>HPVLATFARQETEEVPDDLCTLKTKSRQ 292</p> <p>TLKYHPCERLV PLQCLLSSYF 284</p> <p>VLYKDPLERFN ALQCLCSPYF 284</p> <p>VLTYDATERC ARQLMAHEEF 289</p> <p>SILNRCVPKRPT IDDIINNDKW 259</p> <p>RILTREVDKRP IDEIYEDKW 259</p> <p>KLEKNPQKRMT IPAIIKKHPEF 316</p> <p>KLQLQKDPDKRIK LADIKVHPEM 295</p> <p>GLLNRNRPKHRLG AIDDGRELRAHPEF 260</p> <p>GLLSRDPSSRRLG VNGETDEIRNHPEF 256</p> <p>RRLLTHADQRLG RHGGADEIKSHPEF 323</p> <p>KLLTKNESKELG CKMGAADVKKHPEF 282</p> <p>RLITRDLSQRLGNLQNGTEDVKNHPWF 255</p> <p>KLITRDLSERLGNLQNGSEDVKNHPWF 257</p> <p>KLITADLTRIGNLQSGSRDIAKAHPWF 257</p> <p>GLLTKDPEKRLGAGPRDADEVMEPEF 262</p> <p>ALLKKETAKRNWVNDKYWAKTGANNKPTK 297</p> <p>DLITRLIADPIN RLRSFEHVKRMSYF 301</p> <p>DLITRLIADPIN RVRSEFQVRKMSYF 301</p> <p>KLLVVRDPNDRLT IKQIKAHLEF 269</p> <p>KILVKNLDRLT ISQIKEHHHF 267</p> <p>KILVIEVNERIS LEQIKRHPYF 285</p> <p>KLLKYDPKDRMR LGDVKMHPWI 252</p> <p>KILVVDPQRRIK IRDILSHPLL 265</p> <p>KILTVDPERRIK TRDILKHPLI 271</p> <p>KILVIDPEKRIT TQEILKHPLI 291</p> <p>RILVPNPRRREIN LQTIKRVHWL 268</p> <p>RMLVSDPKKRIN LKQIKKHEWL 275</p> <p>KMLVVDPKRAT LKQVVEHHWM 278</p> <p>RMIIVVDPLRRAT LKNVVEHFW 279</p> <p>SLLTFDPAQRIG FEEFFANKVV 302</p> <p>DILSLDPIERPS LTEIMDYVWF 256</p> <p>KALNLDPSKRP AAELLEDWPWI 263</p> <p>KALRLNPADRP ATELLDDPWI 263</p> <p>DLLQTDVVKELN SKQGLKHIWI 283</p> <p>NLLVLPNPDERYN IDEALNHPWF 281</p> <p>HLLDEVDPNPKRYD IDDFLNDPWL 294</p> <p>KLELEPESKRYD IDQFLDDPW 316</p> <p>SLLQVDPPNRST AAKALNHPWI 269</p> <p>SMIDVNLRTRPS TFEILLQDQI 319</p> <p>KCFVKNMYKRP ADQLLKHKHWI 248</p> <p>RCCIKNERERSS IHILLHHDLI 276</p> <p>LCLQKIPPERP YAALTEHFWL 264</p> <p>YCLKKDSRERPS PRQMINHFWI 268</p> <p>YCLKKDARERPS PRQMLKHPWI 268</p> <p>GCLVKTTPADRP AYNLLSFEEV 255</p> <p>LCLDEDPKERLS ADDLLKSKEI 254</p> <p>VCLCVDVRYRAS TEELLLHHGEF 280</p> <p>ACLQNVNESRAS VRKLLTFFEL 280</p> <p>WCLCVPEDRAS ATELLHDEYI 252</p> <p>KVFGSRSPHYEGY CGCGTTDRPLDDTNP 281</p> <p>RCLIQNPSKRA AVELLMDPWI 293</p> <p>ACFEINPEKRP ANELLSHPE 266</p> <p>KAFELDYQYRPS ALELLQHPWL 298</p> <p>RTFQVDPTRKRIT IEQLLQSSWM 335</p> <p>RIFQWEPRKRIS VGKLLDMQWM 301</p> <p>RMIDLAPACRGN IEEIMEDPWI 305</p> <p>RILEVSPFRRIT INGILQDG 293</p> <p>RMLALEPKQRVL MNDVVKDD 274</p> <p>QQPAHESNIKTV QNQVNPNTP 284</p> <p>LADPNPATR MDDLFNDPWF 308</p> <p>SLTQKPPPATPST TSSKTHGSKLRLVLMPTTNMCVR 323</p> <p>KILQLNPYTRID MKTLMSEVSSLTSFT 329</p> <p>KILQVNPKNRMS LQELEMKEVSS 323</p> <p>TLRISIQDLVYVLS RDQPIDSRNHSQI 333</p> <p>KILQDPDNKEVT LKALKLHFW 269</p> <p>GGVVLNLPLEWT PQQAMLHPEI 336</p> <p>SPMLQOLDPRKRAD AGGLVNHFWL 549</p> <p>ETFLFWYWFIDLLRKMF AKDALDHEWF 408</p> <p>CCFTIDPAVRR AKNLKQHPEI 314</p> <p>ACLYRNPDWRWT VDKVLSSTELQPFM 281</p> <p>YSLTIDPANRDLKMMRTELQNLSSEYT 334</p> <p>LSDLSEVVKKCLRWDPNERAT AQELCEMPF 349</p> <p>CLTIDLDKRWK LKRIEVL 464</p> <p>EVDSAWNWKDSSMDSCFSYQNKIDLFWEQWSVNTEFVPAKFQLK 356</p>
--	---

CKA1		L	LRYDHQE	R	LT	.	...	AKEAMGHPWF	.	324												
CDC7		EIWS	DHYWCFQVLEQC	FEMD	PQKR	SS.	AED	LLKTPF	F	437														
YKL116C		.	KQIV	VENTL	TRKN	.	QRWS	SINE	IYESPV	317														
IRE1		.	QMIDH	DPLK	RPT	.	AMKV	VLRHPL	F	307														
SWE1		.	LERIVR	WMI	EPNYER	RPT	.	ANQI	ILQTEECL	351														
IKS1		.	ALL	QPNN	NDAR	RPT	.	AKTVEET	LDEML	358														
VPS15		.	MIQ	QLDPSK	RLS	.	CDEL	LNKYRG	I	274														
CAK1		.	CILGM	VMSFSPN	ERHWS	.	CQR	ILQ	LEKEKP	368														
BUB1		.	LIESH	LEQHAEN	H	LRNVILS	SIEEE	LSHF	QYKGKPSRF	317														
YGR262C		.	RFE	EVRLRG	RKR	.	SMLG	.	.	261														
SLN1		.	HVNQE	VIK	MLN	.	LEGIEN	.	.	229														
CTK2		.	LELI	NGESSIN	.	SSTRH	.	.	.	323														
CTK3		.	FKSL	WT	FETTD	SGFD	KDDY	KNIKALND	IAKASY	296														
YGL059W		.	MSYPSI	INGHI	YETPLI	ELLS	GLG	LLDT	TSI	445														
YIL042C		.	KIDV	QSLLGWGT	DVYIKL	KLKGPSK	TALS	KK	.	394														
MEC1		.	LVL	LSVA	GQTETL	IQEAT	SED	NSKM	YIGWLPFW	287														
DBF4		.	HPV	LAT	FA	RQETEE	VPD	DLCT	LKT	TKSRQ	292													
MRK1		.	TLKY	HPC	CE	RLV	.	PLQC	LLSSY	F	284													
RIM11		.	VLYKD	DPL	ER	FN	.	ALQC	LCSPY	F	284													
YOL128C		.	VLYT	YDATE	RCD	.	ARQL	MAHEE	F	289														
FUN31		.	SIL	NRCVP	K	RPT	.	IDD	NNDK	WL	259													
YOL045W		.	RIL	TREV	DK	RPT	.	IDEI	YED	KWL	259													
PAK1		.	KLE	KNP	QKR	M	.	IPA	IKKHP	F	316													
YGL179C		.	KL	LQKD	PDK	RIK	.	LAD	IKV	HPEM	295													
SCH9		.	GL	LNRN	PKH	RLG	.	AIDD	GRE	LRAHPF	260													
YPK2		.	GL	LSRD	PSR	RLG	.	VNGT	DEIR	NHPEFF	256													
CBK1		.	RRL	LTHAD	QRLG	.	RHGG	ADEIK	KSHPF	323														
YNR047W		.	KL	LTKNE	SK	RLG	.	CKMG	AAD	VKKHPF	282													
SRA3		.	RL	ITR	DLSQ	R	LGNL	QNQ	TED	VKNHPWF	255													
TPK3		.	KL	ITR	DLSE	R	LGNL	QNQ	SED	VKNHPWF	257													
PKA3		.	KL	ITADL	TR	R	IGNL	QSG	SRD	IAKHPWF	257													
PCK1		.	GL	LTKD	PEK	R	LGAG	PRDA	DEV	MEPEPF	262													
YBR028C		.	ALL	KKETAK	RWN	VDKY	WAKT	GANN	KPTK	.	297													
DBF2		.	DL	ITR	LIAD	PI	R	RLRS	FEH	VKRM	SYF	301												
DBF20		.	DL	ITR	LIAD	PI	R	RVRS	FEQ	VKRM	SYF	301												
PKH1		.	KLL	VRD	PND	RLT	.	IKQI	KAHL	F	269													
PKH2		.	KIL	VKN	NLD	R	DLT	.	ISQI	KEHH	F	267												
YDR466W		.	KIL	VIE	VNE	R	IS	LEQI	KRHP	F	285													
IPL1		.	KLL	KYD	PKD	EMR	.	LGD	VKM	HPWI	252													
YCL024W		.	KIL	VVDP	PR	RIK	.	IRD	IL	SHPLL	265													
GIN4		.	KILT	VD	PER	RIK	.	TRD	IL	KHPLL	271													
HSL1		.	KIL	VID	PEK	R	TQE	IL	KHPLL	.	291													
KIN4		.	RIL	VPN	P	RR	IN	LQT	IKR	HVWL	268													
YPL141C		.	RML	VSD	PK	KR	IN	LKQI	KKH	EWL	275													
KIN1		.	KML	VVD	PK	R	AT	LKQV	VEHH	WM	278													
KIN2		.	RMI	VVD	PL	RR	AT	LKNV	VEH	HPWM	279													
APG1		.	SLL	TFD	PA	QNR	IG	.	FEEFF	FANKVV	302													
CDC5		.	DIL	SLD	P	IER	PS	LTE	IMD	YV	256													
CMK1		.	KAL	NLD	PSK	R	PT	AAEL	LED	WPWI	263													
CMK2		.	KAL	RLN	PA	R	PT	ATE	LL	DDP	WI	263												
MEK1		.	DL	QTD	VV	K	RLN	.	SKQ	GLK	HHWI	283												
DUN1		.	NL	LVLN	P	DR	Y	ND	I	IDEA	NH	WF	281											
RCK1		.	HL	LEVD	PN	K	RYD	.	IDDF	FL	NDP	WL	294											
RCK2		.	KL	LELE	PSK	R	YD	.	IDQF	LL	DDP	WL	316											
RAD53		.	SLL	QVD	P	NNR	ST	.	AAKAL	NH	WPWI	269												
KIN3		.	SMID	VNL	R	TRPS	.	TFEL	LL	QDI	QI	319												
CDC15		.	KCFV	VKN	MYK	R	PT	ADQL	LL	KHV	WI	248												
STE7		.	RCC	IKN	NER	R	SS	.	IHE	LL	HHDL	LI	276											
PBS2		.	LCL	QK	I	PER	R	YAAL	TEH	PW	WL	264												
MKK1		.	YCL	KKD	S	RE	PS	.	PRQMIN	NH	WPWI	268												
MKK2		.	YCL	KKD	ARE	R	PS	.	PRQML	KH	WPWI	268												
SPS1		.	GCL	VKT	P	AD	PS	.	AYN	LL	SFE	V	255											
NRK1		.	LCL	DED	P	KER	LS	.	ADD	LL	KSKE	I	254											
CLA4		.	VCL	CVD	V	RYR	AS	.	TEEL	LL	HHGE	F	280											
SKM1		.	ACL	QVN	VES	R	AS	.	VRK	LL	TFEE	L	280											
STE20		.	WCL	CVE	P	EDR	AS	.	ATELL	LL	HDE	I	252											
SSK22		.	KV	FGS	R	PHYEGY	.	CGCG	TTDR	PL	DDTN	P	281											
SSK2		.	RCL	IQN	PSK	R	AS	AVELL	LL	MDP	WI	293												
BCK1		.	ACF	EIN	PEK	R	PT	ANELL	SH	PES	.	266												
STE11		.	KAF	ELD	YQ	R	PS	ALELL	Q	LQHP	WL	298												
HAL5		.	RTF	QVD	P	TKR	IT	IEQ	LL	QSS	WM	335												
YKL168C		.	RIF	QWE	PR	KR	IS	VGK	LL	DMQ	WM	301												
NPR1		.	RIM	DLA	P	ACRGN	.	IEE	IMED	DP	WI	305												
YDL214C		.	RILEV	SP	F	TRR	IT	INGI	LL	QDG	.	293												
YDL025C		.	RML	ALE	P	KQ	R	MND	VVK	DD	.	274												
YOR267C		.	QQPA	HE	SN	K	TV	Q	NQ	V	PNT	.	284											
PTK2		.	LAD	PN	P	AT	Y	MDD	LL	NDP	F	308												
PTK1	324	NLLSKPLR	TRIRGV	SISL	QMLL	345	.	SLT	QK	PP	P	ST	323											
SKS1		.	KIL	QLN	P	YTR	ID	MKT	LM	SEV	SSL	TSTSFT	329											
YDR247W		.	KIL	QVN	NPK	NRMS	.	LQE	LM	KEV	VSS	.	323											
ELM1		.	TLR	ISI	QD	DLV	K	VLS	RDQF	PIDS	RNHS	QI	333											
CHK1		.	KIL	QPD	P	NK	EV	.	LKA	LL	KHP	WV	269											
YAK1		.	GGV	VLN	N	PL	R	WT	PQQ	AM	LH	PF	336											
SKY1		.	SPM	MLQ	LD	PRK	RAD	.	AGG	L	VN	HPWL	549											
KNS1		.	ETFL	FWY	W	FID	LLR	K	MF	EFD	PT	KR	.	408										
YMR291W		.	CCFT	I	D	P	AVR	RS	.	AKN	LL	KQH	PEI	314										
MPS1		.	ACLY	RN	PDK	R	WT	.	VDK	V	LS	ST	LQPFM	281										
KSP1		.	YS	L	TID	P	AN	R	DL	KMM	RT	LN	SEYT	334										
IME2		.	LSDL	SE	VV	KK	LR	WD	P	N	ER	A	CEMP	F	349									
YKL171W		357	NFEK	P	C	LI	Q	DGK	.	CLT	ID	LDK	RW	EV	.	464								
YGR052W	357	NFEK	P	C	LI	Q	DGK	.	EV	DSAW	NK	DSS	MDS	CSFS	YQNKID	LF	W	Q	SVNT	ET	TV	PAKF	QLK	356