

Fig. 1

SEQ ID NO:1

MKFAISTLLI ILQAAAVFAA FPISDITVVS ERTDASTAYL SDWFVVSFVF STAGSDEITIA GDATIEVSIP
NELEFVQYPD SVDPSVSEFF TTAGVQVLST AFDYDSHVLV FTFSDPGQVI TDLEGVVFFT LKLSEQFTES
ASPGQHTFDF ETSDQTYSPS VDLVALDRSQ PIKLSNAVTV GVEWFVDIPG AFGDITNIDI STVQTPGTFD
CSEVKYAVGS SLNEFGDFTP QDRITFFSNS SSGEWIPITP ASGLPVESFE CGDGTISLSF AGELADDEVL
RVSFLSNLAD DVLEVQNVVN VDLTTADSRK RALTSFVLDE PFYRASRTDT AAFEAFAAVP ADGDITSTST
AITSVTATVT HTTVTSVCYV CAETPVTVTY TAPVITNPIY YTTKVHVCNV CAETPITYTV TIPCETDEYA
PAKPTGTEGE KIVTVITKEG GDKYTKYEE VTYTKYTPKG GHEDHIVTVK TKEGGEKVTK YEEVITYTKG
PEIVTVVKE GGEKVTTYH DVPEVTVIT KEGGEKVTIT YPATYPATYT EGHSAVPTS ASTPPQATYT
VSEAQVNLGS KSAVGLLAIV PMLFLAI

SEQ ID NO:2

ATGAAGTTCGCAATTTCAACACTTCTTATTATCCTACAGGCTGCCGCTGTTTTGCTGCCTTCCCTATATCTGATATCACAGTTG
TCAGTGAAAGAACTGACGCATCGACTGCCTATCTGTCGGACTGGTTTGTTGTTTCATTCGTTTTAGCACTGCTGGCAGTGACGA
AACAATCGCTGGTGACGCTACTATTGAAGTCTCTATTCTTAATGAGCTAGAGTTTGTTCAATACCCTGATTCGGTTGACCCATCC
GTTTCCGAATTCCTTACAACCGCTGGTGTTCAAGTTTGAGTACCGCATTTGATTATGACAGCCATGTTTTGACTTTCACATTCT
CTGACCCAGGTCAAGTTATTACTGACCTGAAGGAGTTGTTTTCTTTACACTCAAACCTCAGTGAGCAGTTCCAGGAGTCTGCTTC
CCCTGGCCAACACACCTTCGACTTCGAAACCTCTGATCAGACCTACAGTCCTTCTGTCGACTTGGTCGCACTTGACAGATCTCAG
CCAATCAAGCTGAGCAACGCTGTGACCGGTGGTGTTGAATGGTTTGTTGATATTCAGGTGCATTTGGAGACATACCAACATTG
ACATCAGCACTGTTCAGACCCAGGTACCTTTGACTGTTGCGAGGTTAAGTATGCTGTCGGAAGCAGCCTGAACGAATTTGGTGA
CTTTACCCACAGGATAGAACAACCTTTCTTCAGCAATTCGTCCAGTGGAGAATGGATTCCAATTACTCTGCTTCAGGTCTTCCA
GTTGAAAGCTTTGAGTGGTGATGGTACCATCTCTTTGAGCTTTGCCGGTGAATTAGCTGACGATGAAGTTCTTAGAGTTTCTT
TCCTATCAAACCTGGCTGATGATGTTCTTGAAGTTCAGAAGCTTGGAATGTTGACCTCACCAGTGCAGACTCGCGTAAGAGAGC
ATTGACTTCGTTTCGTCCTTGATGAGCCATTTTACCGTGCTAGCAGAACCGACACAGCTGCCTTCGAAGCTTTTGACGCCGTACCA
GCTGACGGAGATATTACTTCTACTTCAACTGCCATTACCAGTGTTACTGCAACAGTTACCCACACCACTGTTACATCCGCTGTGT
ACGTTTGTGCTGAAACTCCTGTTACCGTTACCTACACCGCTCCAGTCATTACTAACCCAATTTACTATACCACTAAGGTTACGCT
TTGTAACGTCGTGCTGAAACACCAATTACCTACACTGTTACCATTCTTGTGAAACTGATGAATACGCTCCAGCTAAGCCAACT
GGCACTGAGGGTGAGAAGATCGTCACCGTTATTACAAAAGAAGGTGGTGACAAGTACACCAAGACATACGAAGAAGTCACTTACA
CCAAGACTTATCCCAAGGTGGTCATGAGGACCATATTGTCACTGTCAAACCTAAAGAAGGTGGTGAAAAGGTCACTAAGACTTA
CGAGGAAGTCACCTATACCAAGGTCCTGAAATTGTTACTGTTGTTACCAAGGAGGTGGGGAGAAAGTTACCACTACTTACCAC
GATGTTCTGAGGTTGTTACTGTTATACCAAGGAAGGTGGAGAGAAAGTTACTACTACTTACCCAGCTACTTACCCAGCTACCT
ACACAGAAGGCCACAGTGTGAGTTCCAACAAGTGCTAGCACCCCTCCTCAAGCTACTTACACTGTGAGTGAGGCTCAAGTCAA
CTGGGTTCCAATCTGCTGTTGGTCTGTTAGCAATCGTCCAATGCTCTTCTTGGCTATCTAA

Fig. 1 (continued)

SEQ ID NO:3

MQVKSIVNLL LACSLAVARP LEHAHHQHDK RGVVVVTKTI VVDGSTVEAT AAAQVQEHAE TFAESTPSAV
VSSSSAPSSA SSASAPASSG SFSAGTKGVT YSPYQAGGGC KTAEEVASDL SQLTGYEIIIR LYGVDCNQVE
NVFKAKAPGQ KLFLGIFFVD AIESGVSAIA SAVKSYGSWD DVHTVSVGNE LVNNGEATVS QIGQYVSTAK
SALRSAGFTG PVLSDVTFIA VINNPGLCDF ADEYVAVNAH AFFDGGIAAS GAGDWAAEQI QRVSSACGGK
DVLIVESGWP SKGDTINGAAV PSKSNQAAV QSLGQKIGSS CIAFNAFNDY WKADGPFNAE KYWGILDS

SEQ ID NO:4

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ACAAGAGAGGTGTTGTCGTCGTGACCAAGACCATCGTTGTCGATGGTTCCACCGTTGAGGCTACCGCAGCAGCCAGGTCCAAGA
GCACGCTGAAACTTTTCGAGAGTCGACTCCTTCAGCTGTTGTTTCCAGTTTCATCAGCTCCTTCTCTGCTTCTTCTGCTTCCGCT
CCTGCTCTTCCGGTAGCTTCTCCGCTGGAACCAAAGGTGTCACCTACTCTCCTTACCAAGCCGGTGGTGGCTGTAAGACTGCAG
AGGAGGTGCGCTTCCGATCTTTCCAGTTGACCGGCTACGAGATCATCAGATTGTACGGTGTTGACTGTAACCAAGTCGAGAACGT
CTTCAAGGCCAAGGCCCCAGGTCAAAAGTTGTTTTGGGAATCTTCTTTGTTGATGCTATCGAGAGCGGTGTCAGTGCTATTGCC
TCCGCTGTCAAGTCATACGGTTCTTGGGACGATGTCCACACTGTCTCTGTTGGTAACGAGTTGGTCAACAACGGTGAGGCCACTG
TTTCCCAAAATCGGTCAATACGTTTCTACCGCTAAATCTGCTTGAGATCTGCTGGTTTCACCGGTCCAGTTCTTTCTGTCGACAC
TTTCATTGCTGTGTCATCAACAACCCAGGGTTGTGTGACTTTGTGACGAGTACGTTGCCGTTAACGCTCACGCTTTCTTTGACGGT
GGCATTGCTGCCTCTGGAGCTGGTGATGGGCTGCTGAGCAGATCCAAAGAGTTTCTTCCGCTTGTGGTGGCAAGGATGTCCTCA
TTGTCGAGTCCGGATGGCCTTCAAAGGGAGACACCAACGGTGCTGCCGTTTCTTCCAAGTCAAACCAACAGGCTGCTGTCCAATC
TCTAGGTCAGAAGATCGGTTCTTCTTGATTGCTTTCAACGCTTTCAACGATTACTGGAAGGCCGATGGTCCTTTCAACGCTGAG
AAGTACTGGGGTATCCTAGACTCCTAA

SEQ ID NO 5:

MKISALTACA VILAGLAIAA PAPKPEDCTT TVQKRHHQHKR AVAYDYVYVT VTINGQGETI SPTVVAELET
VSTPATSSSA VATSSAPATT SSIPET TSAQ VTTSSVAEST SAQFTSSTEE ASSSVEQTTQ SSSSSSPSSS
SSSSSSSGSS SGSSSGGIDG DLSWYSGPGN KFQDGTIKCS EFPSGNGVVA LDHLGFGGWS GLYHPSDTST
GGICEPDTYC SYACQSGMSK TQWPSEQPDN GVSVGGLYCD SDGYLYRSKK DTDYLCEWGI DVAYVYVSEIG
KTAAICRTDY PGTENMVIPT VVSPGGELPL TTVDQSSYYT WRGMKTSAY YVNDAGVDWT TGCTWGDYGT
DYGNWAPLNF GAGYDNGISY LSLIPNPNNK DSLNYNVKIV AYDDSSVIG ECKYENGSYN GNGSDGCTVA
VNSGKAKFVL Y

Fig. 1 (continued)**SEQ ID NO 6:**

ATGAAGATATCCGCTCTTACAGCCTGCGCTGTTACTCTAGCTGGTCTTGCAATTGCAGCACCAGCTCCAAAGCCTGAAGATTGTA
CTACTACAGTGCAGAAACGTCAACCAACACAAACGTGCTGTCGCATACGATTACGTTTATGTCACAGTGACTATCAATGGCCAAGG
TGAAACCATTCTTCCAACGTGTTGTGGCAGAACTTGAGACGGTTTCCACGCCTGCAACAAGCTCATCCGAGTTGCAACTTCTTCT
GCTCCTGCAACCACTTCTTCAATCCCAGAGACAACCTTGCACAAGTGACCACCTCTTCTGTTGCAGAGTCCACTTCAGCGCAAT
TCACTTCATCTACCGAAGAAGCCTCTTCTTCTGTTGAGCAAACGACTCAATCAAGTTCAAGTTCAAGTTCCAAGTTCCAGTTCCAG
TTCAAGTTGAGCTCAGGCTCTAGTTCAGGATCCAGTTCCGGTGGAATCGATGGAGACCTAAGCTGGTACTCAGGTCTTGGAAC
AAATTCCAGGATGGTACTATAAAGTGTTCAGGTTCCCATCCGGTAACGGTGTGTTGCCTTGACCATCTCGGATTTCGAGGAT
GGTCAGGATTATACCAACCATCTGATACCTCTACTGGTGGGATCTGTGAACCAGACACCTACTGCTCTTATGCCTGCCAATCAGG
TATGTCGAAGACACAATGGCCATCTGAACAACCGGACAATGGTGTTCGCTTGGTGGTCTGTATTGTGATTCTGATGGATACCTT
TACCGTTCCAAGAAAGACACTGACTATCTATGTGAATGGGGTATTGATGTCGCCATGTTGTCAGTGAAATTGGTAAACTGCTG
CCATCTGTAGAACCGACTATCCAGGAAGTGAACCATGGTTATACCAACTGTGTGAGTCCGGGTGGAGAACTCCCTCTGACAAC
AGTTGACCAATCTCTTACTATACGTGGAGGGGAATGAAGACTTCGGCCCAATACTACGTGAACGATGCTGGTGTGACTGGACC
ACCGGTTGTACCTGGGGAGACTATGGAACCGACTACGGTAACGGGCGCCATTGAACTTTGGTGCCGGTTACGACAACGGCATT
CATACCTTTCTTTAATCCCTAACCCTAACAACAAGGACTCCTTGAATAATAATGTCAAGATTGTTGCTTATGATGATTCTTCTGT
CGTTATCGGCGAGTGCAAGTATGAAAATGGTTCATACAATGGAAACGGTTCCGACGGTTGTACCGTTGCTGTCAACAGCGGTAAG
GCCAAGTTTGTGTTGTATTAA

SEQ ID NO 7:

MKLSTNLILA IAAASAVVSA APVAPAEAAA NHLHKRAYYT DTTKHTFTE VVTVYRTLKPG ESIPTDSPSH
GGKSTKKKGK STHSGAPGA TSGAPDDTT STSGSVGLPT SATSVTSSTS SASTTSSGTS TSTGTGTSTS
TSTGTGTGTT GTGTTSSSTS SSATSTPTGS IDAISQTLTD THNDKRALHG VPDLTWSTELA DYAQGYADSY
TCGSSLEHTG GPYGENLASG YSPAGSVEAW YNEISDYDFS NPGYSAGTGH FTQVVKSTTQ LGCGYKECST
DRYYIICEYA PRGNIVSAGY FEDNVLPPV

SEQ ID NO 8:

ATGAAGCTCTCCACCAATTTGATTCTAGCTATTGCAGCAGCTTCCGCCGTTGTCTCAGCTGCTCCAGTTGCTCCAGCCGAAGAGG
CAGCAAACCACTTGACAAGCGTGCTTACTACACCGACACAACCAAGACTCACACTTCACTGAGGTGTTACTGTCTACCGAAC
TTTGAAACCGGGCGAAAGTATCCCAACTGACTCTCCAAGCCACGGTGGTAAAAGTACTAAAAGGGTAAGGGTAGTACCACTCAC
TCTGGTGCTCCAGGAGCTACCTCTGGTGCTCCAAGTACGACACCACTTCGACTAGTGGCTCAGTAGGGTTACCAACTAGCGCAA
CTTCAGTTACCTCTTCTACCTCCTCTGCAAGTACAACAAGCAGTGGAACCTCAGCCACTAGCACTGGTACCGGTACTAGCACTAG
CACTAGCACTGGTACTGGTACTGGTACTACAGGCACAGGAACCACTAGTTCCAGCACTAGCTCTTCTGCTACTTCGACTCCAACC
GGTTCATATCGACGCTATCAGCCAGACACTTCTGGATACTCACAATGATAAGCGTGCTTTGCACGGCGTCCCAGACCTTACTTGGT
CTACCGAACTCGCTGACTACGCCCAAGGTTACGCCGATTATACACTTGTGGCTCTTCATTAGAACACACAGGTGGACCATACGG
TGAAAATTGCGCTCTGGATACTCTCCTGCTGGCAGTGTAAGCATGGTACAACGAGATCAGCGACTACGATTCTCTAACCCA
GGTTATTCTGCTGGTACCGGTCACTTCACCCAAGTTGTCTGGAAATCAACTACACAGCTGGGCTGTGGATAAAGGAGTGCACTA
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TGTT

Fig. 1 (continued)

SEQ ID NO:20

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1 mqlrvsfsfd yknggypwty fdfphtvthl imkfaiptlf vilqaasvfa afpitditvv
61 sertdasiay lsdwflvsfv fstagsdetl agdatievsi pdelevqyp esvdpsvsef
121 fttagvqvls tafdydshvl tftfsdpqgv itelegvvyf tlklseqfte satpgqhtfd
181 fetseqvysp svdlvaldrt qpiklsnavt ggvevfvdip gafgditnid istvqtpgtf
241 dcsevkyavg sslnefgdft pqdrttffsn sssgewipit pasglpvesf ecgdgtisls
301 fageladdev lrsvflsnld ddvlevqnv nvdlttadsr kraltsfvld epfyrarstd
361 paafeafaav padgdittts tattsvtatv tettvtsvcy vcaetpvtv ytavvitnpi
421 yyttkvhvcn vcaetpityt vtipcesdey apakptgtkg ekivtvvtke ggdkytktye
481 evtytktypk eggghedhivt vttkeggekvt tkyeeytyt kgpeivtvvt keggeevtkt
541 yhdvpevvvt vtkeggekvt ttypatyteg pgavptsvsa ppkatyvtse advnlgsrsa
601 avglailpm lflav
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SEQ ID NO:21

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1 mqvksivnll lacslavarp lehahhghdk rgvvvvtkti ivdgvsteat aaaqvqehae
61 tiaestpsav vassaapsaa ssasapassg sfsagtkgvt yspyqagggc ktaeevasdl
121 sqldtyeiir lygvdcnqve nvfkakapqg klflgiffvd aiesgvsaia savssygswn
181 dvhtvsvgne lvnngreatvs qigqyvstak salrsagftg pvlsvdtfia vinnpglcdf
241 adeyvavnah affdghiaas gagdwaaeqi qrvssacgk dvlivesgwp skgdtngaav
301 psksnqqaav qslgqkigss ciafnafndy wkadgpfnae kywgilds
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SEQ ID NO:22

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1 mkisaltaca vtlaglaiaa papkpedctt tvqkrhqhkr avaydyvyvt vtingqgeti
61 sptvvalet astpatsssa hvetssapat tssvpettsa eqttssaett saqvtssvqe
121 tsssaeeqvt qssssssps ssssssgsss gsssggidgd lswysgpgnk fqdgcticse
181 fpsgngvval dhlfggwsq lyhpsdtstg gicepdytcs yacqsgmskt qwpseqpdng
241 vsvgglycds dgylyrsktd tdylcewgid vayvvseigk taaiacrtdyp gtenmviptv
301 vtpggelplt tvdqssyytw rgmktsaqyy vndagvdwtt gctwgdygtd ygnwaplnfg
361 agydnngisyl slipnpnnkd tmnynvkiva yddssvvige ckyengsyng ngsdgctvav
421 nsgkakfvly
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SEQ ID NO:23

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1 mkfstnlila iaaastvvsa apvapaeaaa nhlhkrayyt dttkthtft vtvyrtilkp
61 gesiptgsps hggkgsctgk gkgsttdagv pgttsvapta dstsasgsig lptsassats
121 atssasttts gtstststgtg tttgattgtg tsstgttsss tsssatstpt gslldaisqsl
181 ldthnekral hgvsdlwtst eladyaqgya dsftcgsslv htggpygenl asgyspagsv
241 eawyneisdy dfsnpgysag tghftqvwwk sttqlgcgyk ecgtnryyii ceyaprgniv
301 sagyfednvl plv
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Fig. 1 (continued)

SEQ ID NO:24

>SCW10 YMR305C SGDID:S000004921
MRFSNFLTVSALLTGALGAPAVRHKHEKRDVVTATVHAQVTVVVSGNSGETIVPVNENAV
VATTSSSTAVASQATTSTLEPTTSANVVTSSQQQTSTLQSSEAASTVGSSTSSSPSSSSSTS
SSASSASSSSISASGAKGITYSPYNDDGSCKSTAQVASDLEQLTGFDNIRLYGVDCSQVE
NVLQAKTSSQKLFLGIYYVDKIQDAVDTIKSAVESYGSWDDITTVSVGNELVNGGSATTT
QVGEYVSTAKSALTSAGYTGSVVSVDTFIAVINNPDLNYS DYMAVNAHAYFDENTAAQD
AGPWVLEQIERVYTACGGKKDVVITETGWPSKGDITYGEAVPSKANQEAAISSIKSSCGSS
AYLFTAFNDLWKDDGQYGVVEKYWGILSSD*

SEQ ID NO:25

>SCW4 YGR279C SGDID:S000003511
MRLSNLIASASLLSAATLAAPANHEHKDKRAVVTTTVQKQTTIIVNGAASTPVAALEENA
VVNSAPAAATSTTSSAASVATAAASSSENNSQVSAAASPASSSAATSTQSSSSSQASSSS
SSGEDVSSFASGVRGITYPYESSGACKSASEVASDLAQLTDFPVIRLYGTDCNQVENVF
KAKASNQKVFLGIYYVDQIQDGVNTIKSAVESYGSWDDVTTVSGNELVNGNQATPSQVG
QYIDSGRSALKAAAGYTGPPVSVDTFIAVINNPDLNYS DYMAVNAHAYFDKNTVAQDSGK
WLLEQIQRVWTACDGKKNVVITESGWPSKGETYGVAVPSKENQKDAVSAITSSCGADTFL
FTAFNDYWKADGAYGVVEKYWGILSNE*

SEQ ID NO:26

>SUN4 YNL066W SGDID:S000005010
MKLSATTTLTAASLIGYSTIVSALPYAADIDTGCTTTAHGSHQHKRAVAVTYVYETVTVDK
NGQTVTPTSTEASSTVASTTTLISESSVTKSSSKVASSSESTEQIATTSSSAQTTLTSSE
TSTSESSVPISTSGSASTSSAASSATGSIYGDADFSGPYEKFEDGTIPCGQFPSPGQGV
PISWLDEGGWSGVENTDTSTGGSCKEGSYCSYACQPGMSKTQWPSDQPSDGRSIGGLLCK
DGYLYRSNTDTDYLCEWGVDAAYVVSELSNDVAICRTDYPGTENMVIPTYVQAGDSLPLT
VVDQDTYYTWQGLKTSAQYYVNNAGISVEDACVWGSSSSGVGNWAPLNFGAGSSDGVA
YLSLIPNPNGNALNFNVKIVAADDSSSTVNCECIYENGFSFGSDGCTVSVTAGKAKFVLYN
*

Fig. 2

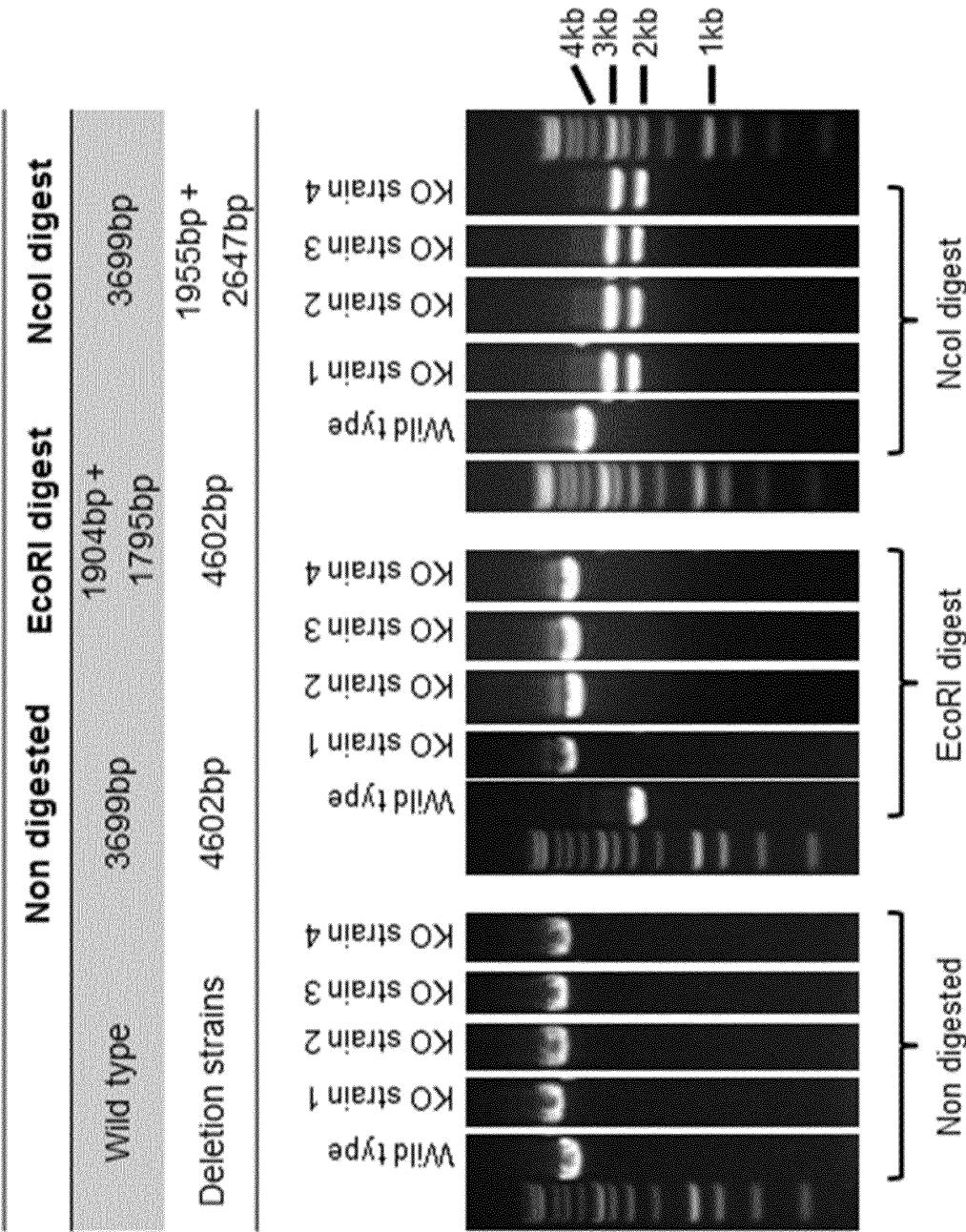


Fig. 3

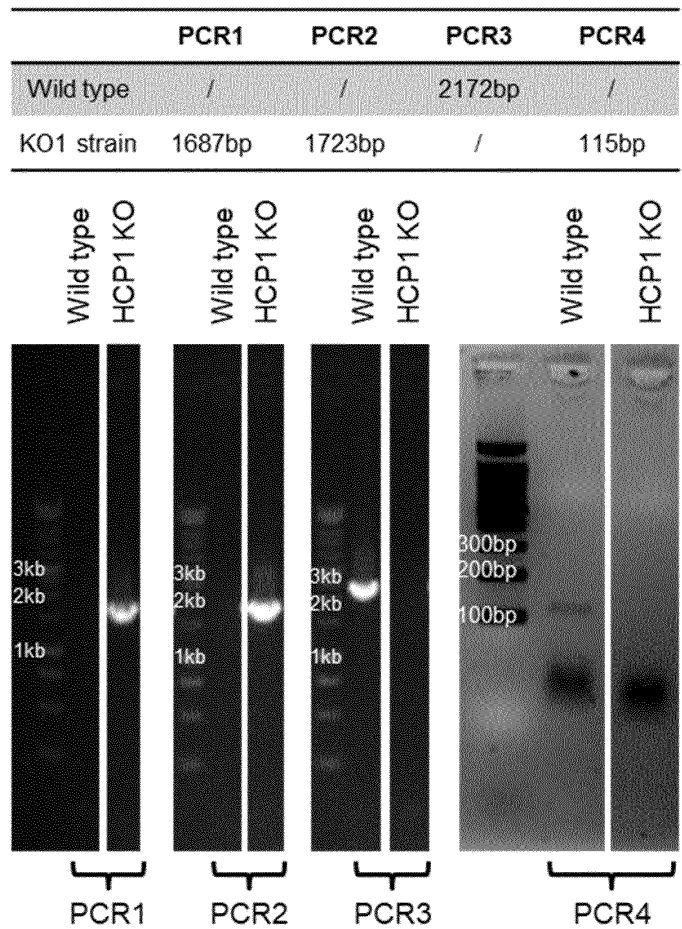


Fig. 4

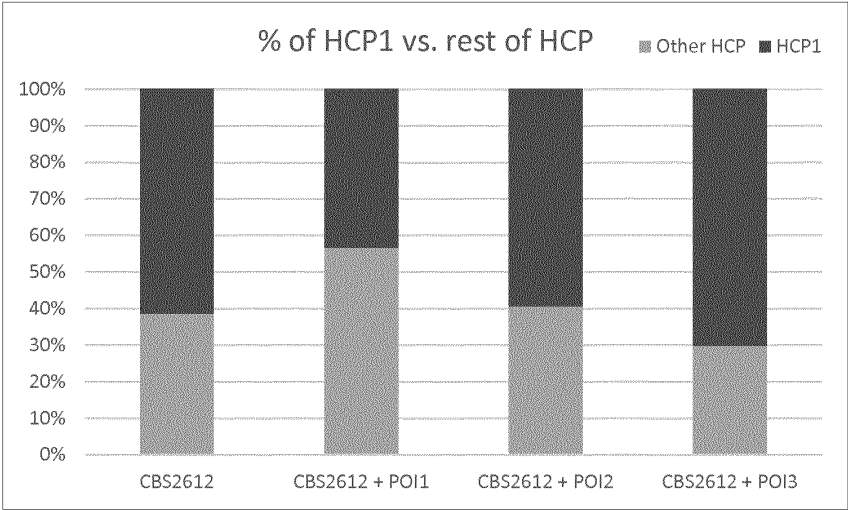


Fig. 5

