Figure S1. Deduced amino acid sequences of GSB mucins and alignment with mucin orthologs. Black boxes mark the deduced initiation and termination codons. Functional domains are indicated in coloured boxes: *O*-glycosylated region or PTS domain (yellow), extracellular proteolytic cleavage site SEA domain (orange), transmembrane domain (TM) (red), immunoglobulin domain (Ig) (grey), vW-D domain (dark blue), C8 domain (blue), and cysteine knot domain (CK) (light blue). In each amino acid alignment, conserved residues with the GSB sequence are represented by dots.

Intestinal mucin:

GSB	: M <mark>TAPTTPHQCT</mark> EKDCPGCVGTCIFNTTLGGCFCNCEEFAFGDACVFGENDTSADIDPENR <mark>PTRNATFTLRILMDFDAAFE</mark>
GSB	DINSPOSLEFIKTLMOELEALCKEADPONFKTVOVIKLSSGSVLAESVVDYLYANNETOIOFVNNOLDGVLTKILNDTSN
GSB	: LNKISQVFNASVTLKELTFEPPEITNITDLKPFVNCTKFAQYTAEVINGQWQCVGPCKTNPDYCHQHGECFNNIKEGPVC
GSB	: RCFETSLKQYYGQQCDLFRYGPGF <mark>YGALFGSLAGALLLVIMIVIAVI</mark> AKKRYMGVWKTTNPYNRRLSAFDEEFFDFSETG

GSB : DHNFGAAGTYTSQGSRQH

Mucin 2:

```
MARCIENNTVEIIPYECPPIQNITCANGKKPVILYDEYHCCNYSACDCECKGWGDPHYITFDGSYYSYQGNCTYILMEBI
                             : N.I......V...VI.E.PPKP..S..LA..Q.I.DDL..WHWE
                                                                                                                                                 . . Y . T
                        : ..T.KY.....KV..E.PPMP..S..LQ..R.E.PDG..WHWE
                              SPRK-HLTIYIDNVLCDPTEDVSCPRSIIISYDSQVITLMNHNLIGAVQLEALKDGVRLKLPYSQGDVEVLNSGLNLIFE
GSB
Zebrafish :
                              R.QY-....MGD.L.T...AHNG.R..S.S...FLS
                                                            . \ \texttt{YH...ARDI.....A....RHE...E.R...TVKPN-T.....VTV..KQP.A....KKFG..S..YE...}
Chicken
                                                            .YH...NDK
                                                                                                        RHE..E.L.KTVH..-P.
Human
                                                                                                                                                       ..VQV.RQA.A...KKYG...YQ
                              IPRLNVIITFGINGFSVSLPFEHFGNNTQGHCGTCNNNQADDCMLPGGQLVESCAVMADYWPAKHINPPDCKIP<mark>TLLPTS</mark>
GSB
                                  Q...D...AT...N.....K....I..DD.S....A.SG..DEM.TP..A...V
E.K.N..NGLS.R.SL....Q.I...T...R.N.N.A.N.ET....QVVDPSK.Q.SPGL.PTKA
Zebrafish :
Chicken
Human
                                   E.G....NGLS...R...HR....K.Q....T.TTS.....S...SN.EAA..Q.LVNDPSK.H.PHS.STKR
                        : APEPPP-----TVTPCKPDSICDMLKSSVFEECHPFVSPDRFFQGCVFDSCHVSNAEVECTSLQTYAAACAQEGICLHW
Zebrafish : GGDIK.-----.PK...AHPD.F..G.E...A..AH...EN..M..E......PA.V.......RS.S.L.....
Chicken : PSTTTG-----K...ES...E..WG....K.REV.K....AA.....T.P.LD.....I...I...I...D.N...D
                        : PAVTV.GGGKTTPHKD.T.SP..Q...D...A...AL.P.QH..DA...
                                                                                                                                                        ...F.PGSS...A...A...L...N...D.
                         : RNHTK-LCTSDCPSDKVYKPCGPAEQPTCDDNFDKPPSKFTTEGCFCPDGMKLFNQESGICVDKCGCIDPEGIPREFNER
GSB
                               <mark>...Y.N-...N</mark>IE.AE....N......P.....IPEQRTITVP......E.TM...KD.....S......AS.T......V
Zebrafish :
Chicken
                                                   YE..KH.E..A...I..T..KSSPQNET.IKQI......TM...SGVD....T....GLDM......G..
Human
                                       HGA.LVE...H.E.QA.......KSSSSQQNNTVLV.....E.TMN.APGFD...KT....G.DN......G.H
                         : FEYNCQDCICEESTKTVTCKPKVCPAPPQTNCTGPGFVLVSQTNPSDPCCSVFVCQCHSNTCPETNMNCPIGYKPVFSVP
\textbf{Zebrafish} \; : \; \dots \dots \textbf{E} \dots \textbf{RA} \dots \dots \textbf{S} \dots \textbf{S} \dots \textbf{GGNPEV} \dots \textbf{E} \dots \dots \textbf{NY} \dots \dots \textbf{E} \dots \textbf{KQ} \dots \textbf{N} \dots \textbf{DVSM} \dots \textbf{PL} \dots \textbf{KK} \dots \textbf{N} \dots \textbf{A} \dots \textbf{LD} \dots \textbf{CS} \dots \textbf
Chicken: TA....L.GGNG.V.E.HK..EQNKKS...K..YE..VV.SE....PTVT.K.N.SL.TTEPPK.T...EVFSY..
                        : .....K...L.GGSG.I.Q..R.SQK.V.H.VED.TY.A..V..A.T..N.T..K.N.SL.K.KPSV.....EVKSK.V
Human
                         : EGGCCPEHRCDPKRVCVHKDIEYQPGMSVPAAVCQDCTCSFEVDPKSGLFKITCRLHQCKS-CDLGYEYVQTHSDECCGK
Zebrafish : ..K...I.E.....T...T...VID.E.K...D....QF...K.GFV..NEK..P.....DDF.-D....
Chicken : SDE...VY..V.....Q.A..L.NS..FVDK.H..F..N...IS.Q.NV...ERIP.N.Y.EP...LQHVQG-....
Human
                        : P.R...FYW.ES.G....G.A.....SP.YSSK....V..DK..NN.L.NV.A.THVP.N.S.SP...L..APG-...K.
                         : CVOTHCMVN-VNGTKOLVALGKTWSPLGSNCELYSCVKSGETLTTISSHIVCPPFOESNCKTETIOTAANGCCKTCVE--
GSB
Zebrafish : .........-..VNH..QE.A.LPTSNPG.DKI..S.VNGQFI..KYT.Q....NI...QPG...LS.....HV..D--
                        : ....K...HTSHS.NL..NP.EFINDPYN..T....TSIKNQ.I.S..E.T..A.N.ES..PG..TFLP.......P-L
                         : .E.....KRP.NQHV.KP.DFK.DPKN..TF....IHNQ.I.SV.N.T..N.DA.I.IPG..TFMP......TPRN
Human
GSB
                         : -KEKACKLVTMKTHITHKSCQSYQEVQMPYCEGSCNTFTKYSEAAASMQHSCSCCKETRFSNRTIDLHCLNGEVVPYTYI
\textbf{Zebrafish} \; : \; - \textbf{QI.G.Q.Q...DF.K.ND...EKK.D.A..G.D......ANPGL.---...QA..S.....A....D..NH.}
                     : DSPTP.S.RER.DF.VY.N.R.L.R.V.TE.....G...L..VE.S......VET.M.E.E.K.PS.HS.THK
                        : ETRVP.ST.P.T.E..YAG.T--KT.L.NH.S...G..VM..AK.QA.D
Human
                         : HVEECGCGHTECTRAVG------QSARRRRSFTLA
                              .....S.SR.K.HE.EVSQ-----TLA..S.....VRF
Zehrafish ·
                              Y..<mark>S...QD...I</mark>VPESSESQSTEENDESTQNHK..AI.L.S<mark>K</mark>
Chicken
                                    .<mark>S.O.OD.V.G</mark>LPT.-----TSRRAR.SP.HLGSG
Human
```

Mucin 2-like:

GSB	: QQLDLLLQPHNSNDEMELCVAVFLALSVGSVTDVQARLVRNHVSSICSTWGREHFKTFDGDVYQFPGTCEYNLASDCHET
Zebrafish	:wrt.tvcm.ligv.skk <mark>vspsnmnf</mark>
Turkey	:GLRAASL.VNA.E.RKGRTGHYNN
Chicken	:GLRAASLFMNT.E.RKGRTGHYNNMFVQD.
GSB	: FOEFSVHMKRKEHDGN-PTVSYVVVTINDLSFHLGKSLVTVNGIPVKLPYYNAGVOVERNVIYLKLOSKVGLVVMWNGDD
Zebrafish	: IRYT.RSTGKR.SAIE.TENQ.NEAK.TVHVSLE.TTYTK
Turkey	RQ.ALNSN.H.E.QT.F.VY.KPK.AVRITSSLS.DTYAQE.
Chicken	RQ.ALNSN.H.E.QT.F.VY.KPK.AVRITSSLS.DTYAQE.
CHICKOH	
GSB	: AVMVEVDRDYANRTCGLCGDFNGVSVYNEFIHNDRKISSIEFGNKHKVHRPNDECEDPYEEEEESAEASLES
Zebrafish	:SK.S
Turkey	:SK.G.QPSGVASYNTLQSDTQA.P.
Chicken	SK.G.QPSGGESYMLCTCILYN.TLQ.SDTRA.P.
omi okon	
GSB	: CKEFQTTCDQILRSEPWSSCTNQINPEPYIQACVQDMCGCTNSTSD-FCLCSTLSEFSRQCSHAGGQPPNWRTPQFCA <mark>KQ</mark>
Zebrafish	: .EK.RAD.ADED.KWVAKTNNRQPEDE.TTAANAAKN <mark>V</mark> .
Turkey	: .N.HRDE.EKT.SA.AD.HSRL.MK.S.K-GNE.SR.GEENY.T
Chicken	: .N.HREE.EKT.SA.AD.HSRL.MK.A.K-GNE.SR.GEENY.T
GSB	: CPFNMVYEESGSPCMDTCTHQDTSSLCEDHKMDGCFCPSGTVFDDISMRGCIAQSECQCK-HNKIYNSGEVYRQNSEECT
Zebrafish	:HSKNAE.NPDTPAEKSL.KSEY
Turkey	:GRSLEVE.YEENPVY <mark>L.G.G.SPTISNEC</mark>
Chicken	:GRSL.G.G.SPTITNEC
GSB	: CFEGOWACKSLPTPATCAVEEGSHVTTFDGKTYTFHGECYYTLAKVESKDDASPKFTPLAQLAPCANQKFDTCLKALKIV
GSB Zebrafish	: CFEGGWACKSLPIPAICAVEEGSHVIIFDGRIYIFHGECYYLLARVESKDDASPRFIPLAGLAPCANGRFDICLRALRIV : Q.S.V.MG.GLFED.N.L.SCEESII.GVFTHETS.V
Turkev	: DS.R.T.D.C.G.S.GKD.VSAVNNTHALGSTDGQT.V
Chicken	DS.R.T. D. C.G. S. G. K. K. D. V SAVNDTHAL. GSSDGO. T.V.
CHICKEH	
GSB	: LNNDRNNVLMFTSDGTVKQN
Zebrafish	: FK.P.FIKAQH.
Turkey	:KRSL.
Chicken	:KRSL.

Mucin 13:

```
MAQKFKLLFLLSLVVACLVIPDNPVAAATIDAP<mark>VTTDPSTTNLPVSTKPSATSE----PSVSTKPSATSEPSVSTKPSA</mark>
      : - MSQSSGTSTPTTT.TQPTSTSTQTPG.TQLLS..STP..TATQP.ST.TQ.PGTTQL..T..T.ATQPTX.STQT
Rat
      : ----M.G.I..A...SISS.SHSK.NCRH..SYHN.YHH.NSYHH.NSYHHINS----YHQTN.YHHTN.YHH.N.YHQT
Human : ---M.A.IH....ALLS-.NTATNQGN.A..V<mark>T..ETA..GPT.AAAD.TE.N----F.ETA.-T..N.PSFP.ATSP.</mark>
      : T-----SEPSVSTKPSATSEPSVSTKPSATSEPS-----VST
      : PGTTQLPGTTSTP.TTATQPTS.SFQT.GT.QL..S..T..TTATQPTSTASQTPGTTQPPGGASSPTTTVTQPTGSS.Q
      : N---SYHHTNSYHHIN.YHQTN.YHHTN.YHHIN.YHQTN.YHHTN-------SYHHINSYHQTNSY<mark>T.P</mark>
Human : P---PIISTHSSS.I..PAPPIIS.HSS.TIPI...ADSE.TTNVN--------SLATSDIITAS----.P
      : KPTATSDPSVSTKPSVTVDPSVSATP----TSSEVTDAETSAPSLTTPNP-DSCDSNPCGPGSTCEARAYPNYVCLCQA
      : <mark>T.GT.QP.GGA.T..T..TQPTGS.SQTSGT.QPPGGASS..VT.S..T</mark>GSN.P.....KSPA..VK-L.DS.F...LE
      : T..I..T.ASRPS..T..T..T.S..---T.KPTSPIST.LTQG.VEEG.SSP.QGA..KGD...VS-LNST.F...FF
Human : NDGLI.MVPSE.QSNNE.S..TEDNQ----S.GPPTGT.LLETS..N.TG.S.P.QD...ADN.L.VK-LHNTSF...LE
     : GDIYNHVSNSCONAKVFPGNLFAPELPYEPEMSDPKSTEFLEAAEKIMSOLOEVFKANTTYTGSTVLKLEPF--TTARVW
      : .YY..N-.S..VKGTT...-EIGMS.NETTD.E.KN.VN.QTLHSS..KFF.NT..K-.D.GQ.V....SKDSLM.S.SV
     : .YY ..--.S..KKG.....-TIKV..SEVSG.G.EN.LA.Q.LHN...EFFGGT..N-FD.GQ.V.DG.SIR--P....E
Human : .YY..--.S..KKG.
                        ...-KISVT.SETFDPEEKH.MA.QDLHSE.T.LFKD..GT-.V.GQ.V..T.STS--L.P
      : SREGNPHIKATVEISFTATADVTTDGVLEEIKSYVDTCSVNCLLNGATFISETLCAKN------ACDAATTR-
     : M.AATQT.YV..VNM.GENTKEDEES.ASV..EA.K.DN-.VERYFQQDRCDYYGCVK-SGSNVCRNGLQCT.KPGLE.L
: M.A.GTG.EV..LNI.AE.TKENEGT...L.TKA.ENNKN.I.GYSNQS.CDYFNCEKENAQDKCDNGLLCK.KPGFE.P
Human : M.AD.KF.NV..VTILAE.TSDNEKT.T.K.NKA.R.S.S.F.NYDL.LRCDYYGCN--QTADDCLNGLACD.KSDLQ.P
     : -----CLSTDGSFKCDC----RESYVPTAFSDRMCIACPSGQGVDKGKCVKCSFGRSGLNCSESWQLTL<mark>VIVASVLGA</mark>
     : NPQVPF..A--P.CSEP.SAEK-..LC.KKDNGAME.GCMAGYR-KAN...EE.P..Y.....KDQ..
      : NPQIPM..A.AP.CPDT.NANNN..CL.NKDN.GVE..CLSGYKED.H.I.Q..G..YG....EDQ..
Human : NPQSPF..A.SLKCPDA.NAQH-..CL.KKSGGAPE.ACV.GY.EDAN.N.Q..A..Y.....KDK..
GSB
      : F...L...FI.SMRSKN....GEEQNLIEDDFHNLRMR-PTGFSNFGADTSIF..VKTGVP--SQTSN.YANHRSMPRPD
Rat
        ...GL..A.IC.TRSKN.D.YIEEQNLIENDFQNLRLQQTTGFSNLGADGSIF..VRA.IS--.QPQN.YANHRSMPRPD
        ...SM..A.I.T.RSNN.T.HIEEENLIDEDFONLKLR-STGFTNLGAEGSVF..VRITASRDSO.ON.Y.SHSSMPRPD
GSB
    : Y
: Y
: Y
Rat
Dog
Human :
```

Mucin 18:

```
-----MEDRVEAYLGEEARINCMFTSAEGVGALRIHWFFVTRSGEKKOIY
GSB
Tilapia : ______GTT.Q....LPNKK.QR..
Zebrafish : MDNFRNMALQNTSLLLIVLQICALAWQAWAQVDLR...T..V..DDS.E.P....FT.APMM.M.Q..VRE.D.V.VR.S
Human : ----MGLPRLVCAFLLAACCCCPRVAGVPGEAEQPAPEL..VE..ST.L.K.GL.QS..N-LSH.D..S.H.--...T.I
        : YLESTMKYADRGTQFTDRVNGTISPGTAVLTISDVHIEDEVEFICHIKSLT-EGREGRTKLKVFDAPAFPSIEGIQTGIS
GSB
Tilapia : NK.PMHEA.EQN.P....SLN..GTA...V.R..G.K.N....V....P.EA....Q.Q..KS.T.....A......
Zebrafish : .SDL..QKV.EN.T....SVRSNSDGET...Q..K.S..R..F.Q.SGF.AGSD.R..L....P.EP.V...AL....
       RVRQGQGQSEPG..EQ..SLQ--DRG.T.A..Q.TP...RI...QG.RPR--SQ.Y.IQ....K..EE.N..VNPL..P
         : VNEVNPSKIGTCEVKNGFPKPNITWYRNNTPLRPAQDEVEITLSVTVESSGLFSVRSELRMKVTKEDKDDQFYCEVTYFV
GSB
: ..SKE.EE.A..VG.....I.Q.I....GR...EEK.R.H.QS.Q......Q.I..AQ.V.....A.....N.R.
        : PGGTRMTETNRINITVYYPSTAVSVWVESPKGKIKEGDSIMLQCRGNGNTPSSFLSFKHG-----EEELPSEQDTLVLH
Tilapia
        ..A....QH......P.E.N......E.R.EN...Y...IT.I..Q-----NSGYFV.N.K..QT
Zebrafish : ..AV.T...KG......S.E..K...Q.L.....E.H.Q....P.API.FN.EQS----DV..D.Y.GL...K
        : .S.NH.K..RE.T.P....EK.W.E..P-V.M.....R.E.R.LA...P.PH.SIS.QNPSTREA...TTNDNGV...E
         : NATRLDSGVYLCISTDTDTF--EEIAGNTTLFVHYLDPAVVIPEDTIVPQGQD-LKATCNALSSVDTHTAWFKDGE--EI
Tilapia
         : .V....G...E.TFME..N.--...S.S.K.L.N..ES...T.K...TVME.EE.......Q.DIT....EK--L.
Zebrafish : EV.....E.HAL.L.AVNND..LDTLQ.T......K..E.MLKGES.T......E.S.V...K.L--.
         : P.R.EH..R.E.QGL.L..M-ISL.SEPQE.L.N..SDVR.S.AAPER-.EGSS.TL..E.E..Q.LEFQ.L.EETGQV.
        : SKGNTLIVKDATFDTAGTYECVVTVPEIEGMETRGTLYVNVQGQPEIIKPDN-TEMVQQVETTVSLHCKVRGFPAPRVEW
Tilapia : ....S.S.E.M.K....K.SS.Q.K.S...G.G--V.E.TY...N.N.SA....T.M.
Zebrafish : G.HI.Q.Q.....R.D.E...S.P.L.S...H.I...A...KDAERDF....K.GAW.N.T.E....R.A.T.
        E.PV.Q.H.LKREAG.G.R.A.S.P.NRTQL.N.A.F.P.W.AFKER--K.WVKENMV.N.S.EAS.H.R.T.S.
         : TTA--DGKVLDETSREVTDEGVOSTVDVKVTSDITVFCNATNDFGTDALTFDIKATTHTTAATTTAETTTTITT-----
Tilapia : ...S--...N...ALQT.T-ED.A..V.TF....S.K..............KV.E.....ILN.ILT.I.SMP.I.<mark>T...RSTTTI</mark>
Zebrafish : .ITGSQSQSWR.VD.KE.EDR.H.V.T.....TVAI..S....IETKI....SIP--FLQ.P..RK..------
       : NVN---.TASE.DQDPQRVLSTLNV.VTPELLETG.E.T....L.K.TSILF.ELVNL..LTPD.NT..GLS..----
         : -----TTTSPASTTTISSTTVKPKT------VNPPKK--KVKKESSGGVIIAVIIICILLLAILGSVLYFLYK
        : <mark>SNDTVVHTTP....TT..NA..DD..T</mark>QN.STNYVNDP.QT.T.SPN....K.-<mark>F</mark>
Zebrafish : -----VDN..-
         Zebrafish : ...L......E..........AKK.-..S...KG.....K....NSTLRS---
       : ...LP.R....E..LPP.R.SE......KLP..MG..QGSS.D.RA.G..GEKYIDLR
```

Mucin 19:

```
: -----FLLLACSKESSDTMTSORWMLAVWLVLSSVLGTGESVATTOTOKYTCRTFGSGVVOPFNDSVFYV
GSB
         Tilapia
              -----EKGSHIPEA.PKYSETN------
Mole rat
         : GLSGSASVEDELKGFASDASS.GGNIW.SN.GSGEGNKGEAGLGTS.QNV.DE.GV.STGEAS.
         : RSNCPFTLT-HFTHNRVECDITTRRGDNGLLVOVEIIINKVRTVLONGSIOVERKSVSLPYDHTYOHIFHYGIYTKLRSP
GSB
           Tilapia
Mole rat
            .S.T..FCR.CVESGGDF.EI..N..SE.EK.T...NNDVS.FGDI.L.NGE..Q...NKLI..KK..EHNV.N.R
         : LPPLSVTWHNGPGGIDTLWVELEQELSTDMTGLCGKHNGTGN---QKVVMESVLADDTCQTRDPTSVGSPECGTFFSHTL
GSB
         : .L......RSV......VF.TN.V.RK...Y..
Tilapia
Mole rat
         : RGI...M.DKN----...S.T.HKRYE.--C....NF.S.TGQDINEH..N.K.PG.CPSAVSK.YEVCEDGVQ.CNNI.
         : RGI...M.DKN----.K.S.T.HK.YP.--C....NF.S.PGDDINEH.AD.K.P...CSKAVSK.YEVCEDGVQ.CNKI.
         : ECLQARVROYLDLCEKN-----IYKYEMSKGVTCSFFKEIVQQCENT-SRVWDIWR--SVTKCDKPDCPGDLIYVEQGP
GSB
         : ....V.TPH..Q...A.----F.S..K..Y.G.A....ALH.G.N-.Y.QK..--A....AE.T......K...D
Tilapia
Mole rat
         : GTYFE.CEKVAT.SSGYKTICINE.CQRGE.SS..DT.S..SRL.ASDGPG..ES.LDD.NVT.E..T..EKQ..K.C.L
         : GTYFE.CGKVST.SSDYKMICIDE.CQSRD.TS..DT.S..SRL.ASDGPGT.ES..DDPDVV.E..I..EKH..K.C..
         : AFVPSCTNPNPRFSNQDYISTCVCPEGKVLNDQADGSHCVSVSSSPCVFAGKSYSTGDMRSTKC-QLCICDSGKWRCSEN
         : SNPA....VA.-.Q.SEC..G.T.S..Y....IGEKGK..LKE.C..ESN..V.NP.E..EGP.GSQ.T.QDA.
Mole rat
         : SNPA....VA.-.Q.TEC..G.T....Y....IGEKGR..LK.DC..ESN..V.Q..E..EGS.GS..T.QEA.
           ICPARCVIEGQHVTTFDGKEYVLPGKCTYVALQGFNWTIKIEFSVKDASLKTVAFLLFQEKYTVSQGVVKIGEEE--
           S..GG.H....F......K.........S..L....N....G.H....R.ILQ....M..F.HN...FED..---
Tilapia
Mole rat
             G. K. . . SLF. . . . DNK .NH . .N . H . . . . HNE . . . . S . . LRPCPN .QTGTCLNSVTLLLNS .VS . . . YVFNSDGKVT
                         ..VK.NH..N.H....HDK.
                                           . . . S . . LRPCPSGQSGTCLNSVTLLLNS . VQ . D . YVFNRDGTVT
              --ITELHOSDNVLVFWOSSMYIHPHTSLGMKIEVOMSPEIOLYITPPANHTGMISGLCGNNNNDTTDDFTTTSGIIE
GSB
           Tilapia
Mole rat
           NDKFGNLGYYY..K.Q..NA..S..QAE.YFHG..
                                          . . . . F . V .
                                                    ..M.P.QFTDTV..
                                                                ..SH..RAE...M..QN
Cow
         : NSAQPFAQSWSVGDCAVDIPDTCINKDNEIFADE<mark>K</mark>
         : ..P...L...P.TP...P.T...T....
Mole rat
        : K.S.A., N.E.MP.PKGT.A., SIEK.K., ENN
         : K.S.A..S..E.MP.PKASTA...SIEK.R..ERH
```