```
                1       10        20        30        40        50        60        70        80        90       100       110       120       130
                |-------+---------+---------+---------+---------+---------+---------+---------+---------+---------+---------+---------+---------|
Staphylococcus  MKIFICEDDPKQRENMVTIIKNYIMIEEKPMEIALATDNPYEVLEQAKNMNDIGCYFLDIQLSTD-INGIKLGSEIRKHDPVGNIIFVTSHSELTYLTFVYKVAAMDFIFKD-DPAELRTRIIDCLETAH
Parageobacillus LKIVVADDDASSRILLRHFIRFL-----PQYKVVGEAISGEEFVRLVLEEKP-DIALYDIKMPD--LDGMEAVKICKQSLPALQVIFTTGYDE--FAVKAFEIAATDYIVKPIERTRLFHALEKARKLIE
   Geobacillus  LKIVIADDDASSRSILRHFIHLF-----PNYDVVAEATSGEEFLQLVLQEQP-DIVLYDINMPG--LDGMEAVKICRQLFPALQVIFITGYDE--FAVEAFEVSATDYIVKPIERTRLFYALEKARKLIE
      Kosmotoga  IKAIVVDDEIIARKAIIELIEDY-----QNIEVMGEASSAEEALDIIKTKKP-NVVFLDIQLPG--FNGVEFVELLNRLEEKVLVVFISAYDE--YALDAFEVDAVDYLMKPVSPERFAVTVERIEKV--
 Pelotomaculum  LKALIVDDEYPARQELRYALSGF-----GNVEIVGEATNAQEAMALIRALDY-QVLFLDISMPG--MNGLDLGAAIQELPRRPYIIFVTAYDE--YAVSAFEVNAVDYILKPVEPKRLKKALDKVIKLTQ
Natranaerobius  MKLLILEDENFTRKYLKELVQRN-----KNIDEVYATGDVNEALEIVGSELP-QIGLIDIELPEQYINGLEASRTAQQINPEMEFIFVTAYSQ--YALKSFEVHPYDYFVKPVGEENLLESVNNIVERIK
      Consensus  .K..!.#D#...R..l...i........n.e.v.ea....Eal.......p....flDI.$p....#G.e........p....!Fvtayd#..%a..a%e!.a.D%i.Kpv.p.rl........k...

                131     140       150       160       170       180       190       200       210       220       230       240       250       260
                |-------+---------+---------+---------+---------+---------+---------+---------+---------+---------+---------+---------+---------|
Staphylococcus  TRLQLLSKDN---------------------SYETIELKRGSNSVYVQYDDIMFFESSTKSHRLIAHLDNRQIEFYG-NLKELSQL--DDRFFRCHNSFVVNRHNIESIDSKERIVYFKNKEHCYASVR
Parageobacillus LSRQ-DHLSIKT--------------------KNKRLGIKSHNSILFLPMEDILFVEK--ESRKTVIHTANERYETTE-PLNKMENKL-DDYFFKTHRSYIVNLKKIVKIEP
   Geobacillus  MAKQCAAVKAKQ--------------------PSKRLGIRSKNSIVLLPMEDILFVEK--ESRKTVIHTANERYETTE-TLNEIEREL-DNCFFKTHRSYIINLKKIVKI
      Kosmotoga ------LAKEG--------------------VLEKVPVKEDNLLEMVDLEEIFYFES--MDKKVYLHTKEDELEVYRYNLSELESSL-PSFFARYHKSFIVNLKKVRRFSS
 Pelotomaculum  EGAPAAKVLITGQEGPAVRIGDANGQAPQSQIKIDRIPAEKQGKTILVTGSDIFYAFT--EKDYVYLKTYSDKL-FTRFTLKELEARLNPQVFFRTHRCYLVNLHKVREI
Natranaerobius  ANL----------------------------SYKKLILDEPGEVLQIPMHKILFLEKIKEQKKVSIYLEDDEVYQVSKTLNELEEML-DINFVRSHRSYIVNKHKIRKITAISQKFYEAYFEN
      Consensus  ......................................k.......v...dI.%.e...e..kv..ht..d..e.....L.ele..l.d..Ffr.Hrs%i!Nlhk!r.i....................

                262265
                |---|
Staphylococcus  NVKKI
Parageobacillus
   Geobacillus
      Kosmotoga
 Pelotomaculum
Natranaerobius
      Consensus  .....
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