```
logo
sleD      ..........................................................MEGPGHSGIRTL.IVIPCLNEAKTIEGLLVKFTGAMQGRLFRIV   43
exoA      ..........................................................MSSDELTSTSSL.IVIPCLNEASHIEALIEKLRPSLTPLNARVV   43
icaA      ........................MHVFNFLLFYPIFMSIYWIVGSIYYFFIKEK..PFNRSLLVKSEHQQVEGISFLLACYNESETVQDTLSSVL.SLEYPEKEII   80
pgaC      MINRIVSFFILCLVLCIPLCVAYFHSGELMMRFVFFWPFFMSIMWIVGGVYFWVYRERHWPWGENAPA.PQLKDNPSISIIIPCFNEEKNVEETIHAAL.AQRYENIEVI  108
consensus                                 *  * * **** ****  *     *   *     *  **     * *****!*!!*** *    * *  * * *

logo
sleD      VADGGSTDGTRDIVAAFAAKDERVTLLANPKRIQSAGINLAVATFGEDFDYLIRIDAHGDYPDDYCQRLIEDAERTGADSVVVAMDTVGHGLFQKATAIAQNSKLGN...  150
exoA      IADGGSTDGTREIARRLATEDPRVLFLDNPKRIQSAAVNRAVAELGAGSDYLIRIDAHGTYPDDYCERLVEDALATGADSVVVAMQTVGFSTFQKATAFAQNSKLGN...  150
icaA      IINDGSSDNTAEIIYDF.KKNHDFKFVDLEVN.RGKANALNEGIKQASYEYVMCLDADTVIDDDAPFYMIEDFKKNPKLGAV.....TGNPRIRNKSSILGKIQTIEYAS  183
pgaC      AVNDGSTDKTRAILDRMAAQIPHLRVIHLAQN.QGKAIALKTGAAAAKSEYLVCIDGDALLDRDAAAYIVEPMLYNPRVGAV.....TGNPRIRTRSTLVGKIQVGEYSS  212
consensus **  !!*!*!**!  ********* *** ** **  ** ***   ** * !** *!* * * *! *  * !***   **  !*** * !***  ** ***    ** * *

logo
sleD      ..GGSKHREGAKGH.WIDHGHHALMRIAAFDAVGGYDESFSHNEDAELDFRLRKSGFRIWMTDKTRMTYYPRASVMPLFKQYLAYGRGRAKNLLKHRSIPKIRQMIPLAV  257
exoA      ..GGSKHRTGAVGH.WAEHGHHALMRIEAFKAVGGYDESFSHNEDAELDYRLGKAGYRIWMTDKTSMVYYPRAKLVPLFWQYFGYGRGRAKNFLKHRAMPGLRQMLPLAV  257
icaA      IIGCIKRSQSLAGAINTISGVFTLFKKSALKDVGYWDTDMI.TEDIAVSWKLHLFDYEIKYEPRALCWMLVPETIGGLWKQRVRWAQGGHEVLL..RDFWPTIKTKKLSL  290
pgaC      IIGLIKRTQRIYGNVFTVSGVIAAFRRSALAEVGYWSDDMI.TEDIDISWKLQLNQWTIFYEPRALCWILMPETLKGLWKQRLRWAQGGAEVFL..KNMTRLWRKENFRM  319
consensus **!* ! **** !* **  ! *** ***! **!!  **   * !! ** * !   ***!*     * ** *  **  ! *! **   ! *   !*** ** **** ****

logo
sleD      LPVFIFALLSLVHWAAL..IPLGLWIAAC.................................VGYGLWMAIGQKNPYGPLAAFSAMVMH..LAWSTGFWLELLKFRGRKA  330
exoA      APIAFGALLAIVNWMAV..VPVGVWAAAC.................................LGYGVWMALGQRNPYGPLAAVAAMVMH..LAWSAGFWRELLDFRRRVA  330
icaA      YILMFEQIASIT.WVYIVLCYLSFLVITANI......LDYTYLKYSFSIFFFSSFTMTFINIIQFTVALFIDSRYEKKNIVGLIFLSWYPTLYWVINAAVVIMAFPKALK  393
pgaC      WPLFFEYCLTTI.WAFT..CLVGFIIYAVQLAGVPLNIELTHIAATHT....AGILLCTLCLLQFIVSLMIENRYEHNLTSSLFWIIWFPVIFWMLSLATTLVSFTRVML  422
consensus  *********** !**   ** *******           *                    *  *** *****  ******* *** ** **!* **  *** !*** *

logo
sleD      VS................   332
exoA      ..................   330
icaA      RKKGGYATWSSPDRGNIQR  412
pgaC      MPKKQRARWVSPDRGILRG  441
consensus   *   * * *****
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X non-conserved

X ≥50% conserved