Alignment of sequences of chaperones involved in β-fimbriae assembly and CsuC. Periodic structure (rectangle, α-helix; arrow, β-strand) is shown above the amino acid sequences of CsuC. Stars indicate three residues in CsuC that anchor subunit carboxylate. The same or a similar type of residue (shown by background shading in green) occupies these positions in β-fimbriae chaperones, suggesting that they use the non-classical mechanism to anchor pilus subunits. Donor residues in CsuC and predicted hydrophobic donor residues in β-fimbriae chaperones are shown with background shading in yellow. Note that in β-fimbriae chaperones, a polar residue (Gln) occupies position P0. This indicates that β-fimbriae chaperones have no the C-terminal shift of the donor strand motif. Invariant residues that are not implicated in subunit binding are shown by background shading in cyan. The alignment was produced by CLUSTALW.