

Figure S1. Aligement of the σ^E and σ^K proteins of *B. subtilis* and *C. difficile*

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SigE-CD      MLRLKERIISFITMLGIKLIKIIKPKGIYYMGGANILPPPLKPEEEMELLOKLET--DESV
SigE-BS      MKKLLKLRLLTHLWYKLLMKLGL--KSDEVVYIIGGSEALPPPLSKDEEQVLLMKLPNG--DQAA
SigK-CD          MAALKSFEEKPLTPEEEEIEYLTQFKIENDKSA
SigK-BS      MVTGVFAALGFVVKE--LVFLVSYVKNNAPQPPLSSSEEKKYL--ELMAKGDEHA
                 *              : : **. **. * : : * : .

SigE-CD      KSILIERNLRVLVVIISRFKENTGIDVEDLISIGTIGLIKAVNTFKLNKNIKLATYASRCI
SigE-BS      RAILIERNLRVLVVIARKFENTGINIEDLISIGTIGLIKAVNTFNPEKIKLATYASRCI
SigK-CD      KDTLIERNMRLVAYIAKKYNSTEDQDDLISIGTIGLIKAIETYNDKGTRLATYASRCI
SigK-BS      RNMLIEHNLRVLAHIVKKFENTGEDAEDLISIGTIGLIKIESYSAGKGTKLATYAARCI
                 : ***:****.:* :****: : :*****.::::. * :*****:***

SigE-CD      ENEI-----LMYL
SigE-BS      ENEI-----LMYL
SigK-CD      ENEI-----LMNI
SigK-BS      ENEIVITKGGCIHPSLIRFNIYGVRIHNGNFFHDKVNNCFIFKSMPPPLFVMNNEILMHL
                 *****                               ** :

SigE-CD      RKNNKKKTEVSFDEPLNIDLGNELLLSDVLGTENDEIYKIEEEEIDRDLL--VMALDRLS
SigE-BS      RRNNKIRSEVSFDEPLNIDWDGNELLLSDVLGTDDDIITKDI EANVDKLL--KKALEQLN
SigK-CD      RSNKKNTQVSLQDPIGTDKEGNEISLLDILGTEANYVLDEVELKVQVQKLYEQLNKILT
SigK-BS      RALKKTKKDVS LDHDPIGDKEGNEISLDV LKSENEVDIT IQLNMELEKV--QYIDILD
                 * :* :.****.:.*. * :****: * ** * : : : . : : : : : . *

SigE-CD      DREKQIMELRFGLIDKGIETQKEVAGMLGISQSYISRLEKKIISRLOKEMKKFV-----
SigE-BS      EREKQIMELRFGLVGE--EKTQKDVADMMGISQSYISRLEKRIKRLRKEFNKMV-----
SigK-CD      PREREIVQLRYGLTPYG--YKTQREIAQKLDISRSYVSRIEKKALKKLEKELVQES-----
SigK-BS      DREKEVIVGRFGLDLKK--EKTQREIAKELGISRSYVSRIEKRALMKMFHEFYRAEKEKRR
                 **::::: *:**          *:***: * .***:***:***: : : : ** :

                               

SigE-CD      -----
SigE-BS      -----
SigK-CD      -----
SigK-BS      KAKGK

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