

Phospho-acceptor domain

B. subtilis ---MEKIKVCVADDNRELVSLLSEYIEGQEDMEVIGVAYNGQECLSLFKEKDPDVLVLDIIMPHLDGLAVLERLRRESDLKKQPNVIMLTAFGQE
B. anthracis ---MEKIKVSLVDNDKELVSMLESYVAQAQDDMEVIGTAYNGQECLNLKKQPDVLVLDIIMPHLDGLAVLEKMRHIERLRSPVMILTAFGQE
C. acetobutylicum -MERSKISVLADDNKEFCNILNDYLLNQSDMIIVVGIGAGDGVEALKLIEKNKKPDLVLLDIIMPRLDGLGVLEKLNNKDANENLRPIIVLSAVGQD
C. botulinum -MEETKINVIADDNKEFCNILSDYLLQRDIMVTGIANDGVEALKLIEEKKPDLIILDIIMPHLDGLGVLEKLNSIDITPMRPIVLSAVGQD
C. lentocellum -MFQDKMKILADDNKDFSDILMEFINRQEDMEVVNVAGNGEEACKLIQEVVPDIIILDVIMPYLDGIGVLERVDSMQLEKRPLFVMLSAVGQD
Epulopiscium METNKNIQIIVADDSKDMIDLRELFINKQAGLEIVGVAYDNGNEAYDAVIKLPADILIILDVIMPNLDGISVLEKLKATKLSKKPIVIMLSAVGQD

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Connector segment

[illegible]

Effector domain

B. subtilis LYLREAISMVYNDIELLGSITKVLYPDIAKKFNNTTA SRVERAIRHAIEVAWSRGNIDSISSLFGYTVMSTKAKPTNSEFIAMVADKLRLLEHKAS
B. anthracis MYLREAITMVYNDIELLGSITKVLYPDIACKNYNTTA SRVERAIRHAIEVAWSRGNIDSISSLFGYTVMSTKAKPTNSEFIAMVADKLRLLEHKAS
C. acetobutylicum MYLREAITMVNNMELLSAVTKELYPSIAKKYNTTA SRVERAIRHAIEVAWSRGQVETINKLFGYTINNGKGKPTNSEFIAMADKLRLKNKVS
C. botulinum MYLREAITMVNDMELLSAVTKELYPSIAKKYNTTA SRVERAIRHAIEVAWSRGQVETINNIFGYTINNGKGKPTNSEFIAMVADKLRLKNRVCS
C. lentocellum QYLRLDAIMVINDMEILNSITKQLYPNIAKQYNTPP SRVERAIRHAIEVAWSRGKMDTIDKLFGYTVNNGKGKPTNSEFIALIADRRLRMQVGS
Epulopiscium QYLRLDAIMAINDMDILNSITKQLYPSIAKRYNTTP SRVERAIRHAIEVAWSRGKMETLEKLFGYTVNNGKGKPTNSEFVALIADKLRLQMVS

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