```
AccD5                                                α1                α2          α3
                                                                                                TT
                    1         10        20        30        40        50        60        70
AccD5               MTSVTDRSAHSAERSTEHTIDIHTTAGKLAELHKRREESLHPVGEDAVEKVHAKGKLTARERIYALLDED
PccB_Scoelicolor    ...........MSEPEEQQPDIHTTAGKLADLRRRIEEATHAGSARAVEKQHAKGKLTARERIDLLLDEG
AccB_Scoelicolor    ...........MTVLDEAPGEPTDARGRVAELHGIRAAALAGPSEKATAAQHAKGKLTARERIELLLDPG
AccD4               ..............MTVTEPVLHTTAEKLAELRERLELAKEPGGEKAAAKRDKKGIPSARARIYELVDPG
AccD6               ..............................................MTIMAPEAVGESLDPR
consensus>50        ...............e...d.httagklael..r.e.a.....e.a..k.hakgkltArer!..llDpg

AccD5                β1      TT      η1      TT      β2      β3      η2      α4
                    80        90       100       110       120       130       140
AccD5               SFVELDALAKHRSTNFNLGEKRPLGDGVVTGYGTIDGRDVCIFSQDATVFGGSLGEVYGEKIVKVQELAI
PccB_Scoelicolor    SFVELDEFARHRSTNFGLDANRPYGDGVVTGYGTVDGRPVAVFSQDFTVFGGALGEVYGQKIVKVMDFAL
AccB_Scoelicolor    SFREVEQLRHRATGFGLEAKKPYTDGVITGWGTVEGRTVFVYAHDFRIFGGALGEAHATKIHKIMDMAI
AccD4               SFMEIGALCRTPG.....DPNALYGDGVVTGHGLINGRPVGVFSHDQTVFGGTVGEMFGRKVARLMEWCA
AccD6               D..PLLRLSNFFDDGSVELLHERDRSGVLAAAGTVNGVRTIAFCTDGTVMGGAMGVEGCTHIVNAYDTAI
consensus>50        sf.eld.l.rhr.t.f.ld...pygdGVvtg.Gt!#Gr.v.v%s.D.t!fGGalGe.yg.k!vkvm#.ai

AccD5                β4      η3      α5      β5      β6      η4      α6      β7      TT
                   150       160       170       180       190       200       210
AccD5               KTGRPLIGINDGAGARIQEGVVSLGLYSRIFRNNILASGVIPQISLIMGAAAGGHVYSPALTDFVIMVDQ
PccB_Scoelicolor    KTGCPVVGINDSGGARIQEGVASLGAYGEIFRRNTHASGVIPQISLVVGPCAGGAVYSPAITDFTVMVDQ
AccB_Scoelicolor    AAGAPLVSLNDGAGARIQEGVSALAGYGGIFQRNTKASGVIPQISVMLGPCAGGAAYSPALTDFVFMVRD
AccD4               MVGCPIVGINDSGGARIQDAVTSLAWYAELGRRHELLSGLVPQISIILGKCAGGAVYSPIQTDLVVAVRD
AccD6               EDQSPIVGIWHSGGARLAEGVRALHAVGQVFEAMIRASGYIPQISVVVGFAAGGAAYGPALTDVVVMAPE
consensus>50        ..g.Pi!gindsgGARiq#gV.sL..ygeifrrn..aSGv!PQISvilG.cAGGavYsPalTDfvvmv.#

AccD5               T  β8      α7      α8      α9      β9      α10                TT
                   220       230       240       250       260       270       280
AccD5               TSQMFITGPDVIKTVTGEEVTMEELGGAHTHMAKSGTAHYAASGEQDAFDYVRELLSYLPPNNSTDAPRY
PccB_Scoelicolor    TSHMFITGPDVIKTVTGEDVGFEELGGARTHNSTSGVAHHMAGDEKDAVEYVKQLLSYLPSNNLSEPPAF
AccB_Scoelicolor    TSQMFITGPDVVKAVTGEEITQNGLGGADVHAETSGVCHFAYDDEETCLAEVRYLLSLLPQNNRENPPRA
AccD4               QGYMFVTGPDVIKDVTGEDVSLDELGGAD.HQASYGNIHQVVESEAAAYQYVRDFLSFLPSNCFDKPPVV
AccD6               .SRVFVTGPDVVRSVTGEDVDMASLGGPETHHKKSGVCHIVADDELDAYDRGRRLVGLFCQQGHFDRSKA
consensus>50        ts.mF!TGPDV!k.VTGE#!.meeLGGadtH...sGv.H..addE.daydyvrellsylp.#n..dpp..

AccD5                η5      α11     η6      α12     β10     TT      TT      β11     TT
                   290       300       310       320       330       340
AccD5               QAAAPTGPIEENLTDEDLELDTLIPDSPNQPYDMHEVITRLLD.D.EFLEIQAGYAQNIVVGFGRIDGRP
PccB_Scoelicolor    PEEADLA.....VTDEDAELDTIVPDSANQPYDMHSVIEHVLD.DAEFFETQPLFAPNILTGFGRVEGRP
AccB_Scoelicolor    ESSDPVD......RRSDTLLD.LVPADGNRPYDMTKVIEELVD.EGEYLEVHERWARNIICALARLDGRV
AccD4               NPGLEPE.....ITGHDLELDSIVPDSDNMAYDMHEVLLRIFD.DGDFLDVAAQAGQAIITGYARVDGRT
AccD6               EAG..........DTDIHALLPESSRRAYDVRPIVTAILDADTPFDEFQANWAPSMVVGLGRLSGRT
consensus>50        e............t..D.eld.lvPds.n.pYDmh.!i..ilD.#.e%l#vqa..a.niv.gfgRvdGR.

AccD5               β12     η7      α13     β13     α14     α15
                   350       360       370       380       390       400       410
AccD5               VGIVANQPTHFAGCLDINASEKAARFVRTCDCFNIPIVMLVDVPGFLPGTDQEYNGIIRRGAKLLYAYGE
PccB_Scoelicolor    VGIVANQPMQFAGCLDITASEKAARFVRTCDAFNVPVLTFVDVPGFLPGVDQEHDGIIRRGAKLIFAYAE
AccB_Scoelicolor    VGIVANQPQALAGVLDIEASEKAARFVQMCDAFNIPIITLLDVPGFLPGVDQEHGGIIRHGAKLLYAYCN
AccD4               VGVVANQPMHMSGAIDNEASDKAARFIRFSDAFDIPLVFVVDTPGFLPGVEQEKNGIIKRGGRFLYAVVE
AccD6               VGVLANNPLRLGGCLNSESAEKAARFVRLCDAFGIPLVVVDVPGYLPGVDQEWGGVVRRGAKLLHAFGE
consensus>50        VG!vAN#Pm.laGcl#ieas#KAARF!r.cDaFn!Piv..vDvPG%LPGv#QE.nG!!rrGakllyAy.#

AccD5               β14     α16     η8      β15     TT      β16     α17     α18
                   420       430       440       450       460       470       480
AccD5               ATVPKITVITRKAYGGAYCVMGSKDMGCDVNLAWPTAQIAVMGASGAVGFVYRQQLAEAAANGEDIDKLR
PccB_Scoelicolor    ATVPLITVITRKAFGGAYDVMGSKHLGADLNLAWPTAQIAVMGAQGAVNILHRRTIADA...GDDAEATR
AccB_Scoelicolor    ATVPRISLILRKAYGGAYIVMDSQSIGADLTYAWPTNEIAVMGAEGAANVIFRRQIADA....EDPEAMR
AccD4               ADVPKVTITIRKSYGGAYAVMGSKQLTADLNFAWPTARIAVIGADGAAQLLMKRFPDPN...APEAQAIR
AccD6               CTVPRVTLVTRKTYGGAYIAMNSRSLNATKVFAWPDAEVAVMGAKAAVGILHKKKLAAAP..EHEREALH
consensus>50        atVP.!tvitRKa%GGAY.vMgSk.lgadlnfAWPtaq!AVmGAqgAvnil.rr..ada....e#.#alr

AccD5               α19     α20     β17     η9      α21
                   490       500       510       520       530       540
AccD5               LRLQQEYEDTLVNPYVAAERGYVDAVIPPSHTRGYIGTALRLLERKIAQLP.PKKHGNVPL
PccB_Scoelicolor    ARLIQEYEDALLNPYTAAERGYVDAVIMPSDTRHIVRGLRQLRTKRESLP.PKKHGNIPL
AccB_Scoelicolor    ARMVKEYKSELMHPYYAAERGLVDDVIDPAETREVLITSLAMLHTKHADLP.SRKHGNPPQ
AccD4               KSFVENYNLNMAIPWIAAERGFIDAVIDPHETRLLLRKSMHLLRDKQLWWRVGRKHG....
AccD6               DQLAAEHERIAGGVDSALDIGVVDEKIDPAHTRSKLTEALAQAPARRG...RHKNIPL
consensus>50        .rlvq#ye..l..py.Aa#rGy!DavIdP.eTR..l...$.ll..k...lp...kHgnipl
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