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                   1         10        20        30        40        50        60        70
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Cd-R20291-3507     FSLIEVLVAMAIMGIVLFAFFNIIN...TNNKANTKNDTDITSLNYVQSEIENLREKIKSGEFDFDSL.....DKLEDGT
Cd-196-3507        FSLIEVLVAMAIMGIVLFAFFNIIN...TNNKANTKNDTDITSLNYVQSEIENLREKIKSGEFDFDSL.....DKLEDGT
Cd-630-3507        FSLIEVLVAMAIMGIVLFAFFNIIN...TNNKANTKNDTDITSLNYVQSEIENLREKIKSGEFDFDSL.....DKLEDGT
Cd-R20291-0755     FTLIELLVVISIIGILVIVAVPALF...RNIEK.SKAVTCLSNRENIKTQIVIAMAEESSKDKNEVIK.....EVLENKD
Cd-196-0755        FTLIELLVVISIIGILVIVAVPALF...RNIEK.SKAVTCLSNRENIKTQIVIAMAEESSKDKNEVIK.....EVLENKD
Cd-630-0755        FTLIELLVVISIIGILVIVAIPALF...RNIEK.SKAVTCLSNRENIKTQIVIAMAEESSKGKNEVMK.....EVLENKD
Cd-R20291-3294     FTLVEMIVVVTILGVISSIALVKYS...KVQES.AKLNADYTNAANIVTAASMAINDDE.KTIDSLSV.....ETLKEKG
Cd-630-3294        FTLVEMIVVVTILGVISSIALVKYS...KVQES.AKLNADYTNAANIVTAASMAINDDE.KTIDSLSV.....ETLKEKG
Cd-196-3294        FTLVEMIVVVTILGVISSIALVKYS...KVQES.AKLNADYTNAANIVTAASMAINDDE.KTIDSLSV.....ETLKEKG
Cd-R20291-2305     FTLVELLVVIAIIGILAIIALPALF...KNIEK.AKIAKLEADISAIKSASLSYYADESKY..TDGGM.....ISWVKKD
Cd-196-2305        FTLVELLVVIAIIGILAIIALPALF...KNIEK.AKIAKLEADISAIKSASLSYYADESKY..TDGGM.....ISWVKKD
Cd-630-2305        FTLVELLVVIAIIGILAIVALPALF...KNIEK.AKIAKLEADISAIKSASLSYYADESKY..TDGGM.....ISWVKKD
Cd-R20291-3513     FTLVELLVVIAIIGILAVVAVPALF...SNINK.AKVASVESDYSSVKSAALSYYSDTNKIPVTPDGQ.....TGLSVLE
Cd-196-3513        FTLVELLVVIAIIGILAVVAVPALF...SNINK.AKVASVESDYSSVKSAALSYYSDTNKIPVTPDGQ.....TGLSVLE
Cd-630-3513        FTLVELLVVIAIIGILAVVAVPALF...SNINK.AKVASVESDYSSVKSAALSYYSDTNKIPVTPDGQ.....TGLSVLE
Cd-R20291-3508     LTLLEVIIAVFILTIVLSISYKVFNGITSAVKKQQIITDAQVNINLINKYLNRDLENCKELTKTGSGNNYEYNIEMPDNV
Cd-630-3508        LTLLEVIIAVFILTIVLSISYKVFNGITSAVKKQQIITDAQVNINLINKYLNRDLENCKELTKTGSGNNYEYNIEMPDNV
Cd-196-3508        LTLLEVIIAVFILTIVLSISYKVFNGITSAVKKQQIITDAQVNINLINKYLNRDLENCKELTKTGSGNNYEYNIEMPDNV

                         80        90       100       110
Cd-R20291-3507     VVYEKLIDKSKK.VVYDKVLSEGDVSLYDTPYEKITTIKDEDG.....................................
Cd-196-3507        VVYEKLIDKSKK.VVYDKVLSEGDVSLYDTPYEKITTIKDEDG.....................................
Cd-630-3507        VVYEKLIDKSKK.VVYDKVLSEGDVSLYDTPYEKITTIKDEDG.....................................
Cd-R20291-0755     GKYFETEPKCKSGGIYSATFDDGYDGITGIESIAKVYVTCTKHPDGIEMARDIHQSMKDLIASFAQDPSIIPGASKGNDD
Cd-196-0755        GKYFETEPKCKSGGIYSATFDDGYDGITGIESIAKVYVTCTKHPDGIEMARDIHQSMKDLIASFAQDPSIIPGASKGNDD
Cd-630-0755        GKYFETEPKCKSGGIYSATFDDGYDGITGIESIAKVYVTCTKHPDGVEMARDIHQSMKDLIASFSQDPSIIPGASKGNDD
Cd-R20291-3294     YLNTVPVPQSTSGKFELVINDSGTDISVNINS................................................
Cd-630-3294        YLNTVPVPQSTSGKFELVINDSGTDISVNINS................................................
Cd-196-3294        YLNTVPVPQSTSGKFELVINDSGTDISVNINS................................................
Cd-R20291-2305     .......GKIIINGGFKDDPLADKIENLGMPYNGSYLLMSSPG.....................................
Cd-196-2305        .......GKIIINGGFKDDPLADKIENLGMPYNGSYLLMSSPG.....................................
Cd-630-2305        .......GKIIINGGFKDDPLADKIENLGMPYNGSYLLMSSPG.....................................
Cd-R20291-3513     TYMESLPDKADIGGKYKLIKVGNKLV.LQIGTNDEGVTLTEAQ.....................................
Cd-196-3513        TYMESLPDKADIGGKYKLIKVGNKLV.LQIGTNDEGVTLTEAQ.....................................
Cd-630-3513        TYMESLPDKADIGGKYKLIKVGNKLV.LQIGTNTEGVTLTEAQ.....................................
Cd-R20291-3508     VKYEVSIETKKNTEVYSVTRIQNNTIDTENEVREEIIYNQPLVQ.....................................
Cd-630-3508        VKYEVSIETKKNTEVYSVTRIQNNTIDTENEVREEIIYNQPLVQ.....................................
Cd-196-3508        VKYEVSIETKKNTEVYSVTRIQNNTIDTENEVREEIIYNQPLVQ.....................................

                                 120       130       140       150       160
Cd-R20291-3507     ...............NLIDKGNITNKIKTIVEDKSGQIYKIAVTGKSMNDYSSKKE.VKIVTEIFKDK.........
Cd-196-3507        ...............NLIDKGNITNKIKTIVEDKSGQIYKIAVTGKSMNDYSSKKE.VKIVTEIFKDK.........
Cd-630-3507        ...............NLIDKGNITNKIKTIVEDKSGQIYKITVTGKSMNDYSSKKE.VKIVTEIFKDK.........
Cd-R20291-0755     FRKYLLDNKYKNGWPTIPDEFKAKYGLSKDTLYIQPYAYNPTKSDATVVVFANNKTGGNWYTSLVYDYDEGRWYKGKNGI
Cd-196-0755        FRKYLLDNKYKNGWPTIPDEFKAKYGLSKDTLYIQPYAYNPTKSDATVVVFANNKTGGNWYTSLVYDYDEGRWYKGKNGI
Cd-630-0755        FRKYLLDNKYKNGWPTIPDEFKAKYGLSKDTLYIQPYAYSPTKSDATVVVFANNKTGGNWYTSLVYDYDEGRWYKGKNGI
Cd-R20291-3294     ..................KQFYPK.............:.............................................
Cd-630-3294        ..................KQFYPK.............:.............................................
Cd-196-3294        ..................KQFYPK.............:.............................................
Cd-R20291-2305     ..................HEKYLELSILPEGEISKSGLDKLKNDYGNLIDITNDQNKINIVIKLLNNKSNT.........
Cd-196-2305        ..................HEKYLELSILPEGEISKSGLDKLKNDYGNLIDITNDQNKINIVIKLLNNKSNT.........
Cd-630-2305        ..................HEKYLELSILPEGEISKSGLDKLKSDYGSSIDIKNDQNKIDIVIKLLNDKSNT.........
Cd-R20291-3513     ..................SAKLLS.DIGENKIYTSVTADNLGNPLTSNTKVDNKVLYIVLIDNTVMDSTK..........
Cd-196-3513        ..................SAKLLS.DIGENKIYTSVTADNLGNPLTSNTKVDNKVLYIVLIDNTVMDSTK..........
Cd-630-3513        ..................SAKLLS.DIGENKIYTNAALS...AKLTSTTKVNNEALYIVLIDNIVMDQQGA.........
Cd-R20291-3508     ..................NNKEMKETPFKIEKQTGKSIYTVSIYYNESVQESHKNSNLNNKTYTFDVMSRIG........
Cd-630-3508        ..................NNKEMKETPFKIEKQTGKSIYTVSIYYNESVQESHKNSNLNNKTYTFDVMSRIG........
Cd-196-3508        ..................NNKEMKETPFKIEKQTGKSIYTVSIYYNESVQESHKNSNLNNKTYTFDVMSRIG........

Cd-R20291-3507     ...............................
Cd-196-3507        ...............................
Cd-630-3507        ...............................
Cd-R20291-0755     SVAGRSWDVDTDSVKSVKTEIHSKEGWGPLN
Cd-196-0755        SVAGRSWDVDTDSVKSVKTEIHSKEGWGPLN
Cd-630-0755        SVAGRSWDVDTDSVKSVKTEIHSKEGWGPLN
Cd-R20291-3294     ...............................
Cd-630-3294        ...............................
Cd-196-3294        ...............................
Cd-R20291-2305     ...............................
Cd-196-2305        ...............................
Cd-630-2305        ...............................
Cd-R20291-3513     ...............................
Cd-196-3513        ...............................
Cd-630-3513        ...............................
Cd-R20291-3508     ...............................
Cd-630-3508        ...............................
Cd-196-3508        ...............................
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