```
# Program: needle
# Rundate: Fri 11 Sep 2020 18:41:02
# Commandline: needle
#
    -auto
#
    -stdout
#
    -asequence emboss_needle-I20200911-184100-0723-47545052-p2m.asequence
#
    -bsequence emboss_needle-I20200911-184100-0723-47545052-p2m.bsequence
#
    -datafile EBLOSUM62
#
    -gapopen 10.0
#
    -gapextend 0.5
#
    -endweight
#
    -endopen 10.0
#
    -endextend 0.5
#
    -aformat3 pair
#
    -sprotein1
#
    -sprotein2
# Align format: pair
# Report file: stdout
# Aligned sequences: 2
# 1: ERG11-Cerevisiae
# 2: ERG11-Albicans
# Matrix: EBLOSUM62
# Gap penalty: 10.0
# Extend penalty: 0.5
#
# Length: 539
# Identity:
               338/539 (62.7%)
# Similarity:
               416/539 (77.2%)
# Gaps:
                18/539 ( 3.3%)
# Score: 1797.0
#
ERG11-Cerevis
                  1 MSATKSIVGEALEYVNIGLSHFLALPLAORISLIIIIPFIYNIVWOLLYS
                                                                         50
                                    ERG11-Albican
                  1 MAIVETVID-----GINYFLSLSVTQQISILLGVPFVYNLVWQYLYS
                                                                         42
                 51 LRKDRPPLVFYWIPWVGSAVVYGMKPYEFFEECQKKYGDIFSFVLLGRVM
ERG11-Cerevis
                                                                        100
                    43 LRKDRAPLVFYW<mark>IPWFGSAASYGQQPY</mark>E<mark>FF</mark>ESCRQKYGDVFS<mark>FMLLGK</mark>IM
ERG11-Albican
                                                                         92
ERG11-Cerevis
                101 TVYLGPKGHEFVFNAKLADVSAEAAYAHLTTPVFGKGVIYDCPNSRLMEQ
                                                                        150
                    ERG11-Albican
                 93 TVYLGPKGHEFVFNAKLSDVSAEDAYKHLTTPVFGKGVIYDCPNSRLMEQ
                                                                        142
                151 KKFVKGALTKE<mark>AF</mark>KS<mark>Y</mark>VPL<mark>I</mark>AEEVYKYFRDSKNFRLNERTTGTIDVMVT<mark>Q</mark>
ERG11-Cerevis
                                                                        200
                    <mark>|||.|.||</mark>.:<mark>:|</mark>|.<mark>|</mark>||.<mark>|</mark>.||:..||...::|:|.|:|.|:|.||.|||
ERG11-Albican
                143 KKFAKFALTTD<mark>SF</mark>KR<mark>Y</mark>VPK<mark>I</mark>REEILNYFVTDESFKLKEKTHGVANVMKT<mark>Q</mark>
                                                                        192
                201 PEMTIFTASRSLLGKEMRAKLDTDFAYLYSDLDKGFTPINFVFPNLPLEH
ERG11-Cerevis
                                                                        250
                    ERG11-Albican
                193 PE<mark>ITI</mark>F<mark>TASRSLF</mark>GDEMRRIFDRSFAQLYSD<mark>LDKGFTPINFVF</mark>PN<mark>L</mark>PLPH
                                                                        242
                251 YRKRDHAQKAISGTYMSLIKERRKNNDIQ-DR<mark>DLI</mark>DS<mark>L</mark>MKNSTYKDGVKM
ERG11-Cerevis
                                                                        299
                    ERG11-Albican
                243 YWRRDAAQKKISATYMKEIKSRRERGDIDPNRDLIDSLLIHSTYKDGVKM
                                                                        292
ERG11-Cerevis
                300 TDQEIANLLIGVLMGGQHTSAATSAWILLHLAERPDVQQELYEEQMRVL-
                                                                        348
```

ERG11-Albican	293		342
ERG11-Cerevis	349	DGGKKELTYDLLQEMPL <mark>LN</mark> Q <mark>TIKETLRMHHPLHSLFRK</mark> VMKDMHVPNT . : :. : .	396
ERG11-Albican	343	EKGGDLNDLTYEDLQKLPS <mark>VNNTIKETLRMHMPLHSIFRK</mark> VTNPLRIPET	392
ERG11-Cerevis	397	SYVIPAGYHVLVSPGYTHLRDEYFPNAHQFNIHRWNKDSASSYSVG	442
ERG11-Albican	393	NYIVPKGH <mark>YVLVSPGY</mark> AHTSERYFDNPEDFDPTRWDTAAAKAN <mark>SVS</mark> FNSS	442
ERG11-Cerevis	443	EEV <mark>DYGFG</mark> AISKG <mark>VSSPYLPFGGGRHRCIGEHFA</mark> YC <mark>QLGVLM</mark> SIFIRTLK : .:!:. : :	492
ERG11-Albican	443	DEV <mark>DYGFG</mark> K <mark>V</mark> SKG <mark>V</mark> SSPYLPFGGGRHRCIGEQFAYVQLGT <mark>IL</mark> TTFVYNLR	492
ERG11-Cerevis	493	WHYPEGKTVPPPDFTSMVTLPTGPAKIIWEKRNPEQKI* 531	
ERG11-Albican	493	: . <mark> :: . </mark> . : WTI-DGYKVPDPDYSSMVVLPTEPAEIIWEKRE-TCMF* 529	

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