

a

```
LOC120293628_AGL42 1 10 20 30 40 50
LOC104442219_AGL42 MVRGKIQMKIENDTSRQVTFSKRRNGLLKKAELSVLCDAVAIIFSR
AT5G62165_AGL42 MVRGKIQMKIENDTSRQVTFSKRRNGLLKKAELSVLCDAVAIIFSR

60 70 80
LOC120293628_AGL42 GASSTSSRAR...RDGRK...SSAFLVVFAIDPPFRSAPK
LOC104442219_AGL42 RGKLYEFASSMNETIERHRRHTKDRITGNKSVEENMQHLKDEAAN...
AT5G62165_AGL42 RGRLYEFSSSDMQRTIERHRRKYTKDHETSNHDSQIHQQLEQEAASH...

90 100 110 120 130
LOC120293628_AGL42 PRPFAHRVLSLHAKPKRRSHHCDAAAAVSASAPTTTRQSRMLMPL
LOC104442219_AGL42 .MMKRIELHEDSRKRLGCG.LGSCSI.EELO....QIEQOLESVISIT
AT5G62165_AGL42 .MITKRIELHFRHKKRLGCG.IASCSL.EELO....EIDSQLESLGKV

140
LOC120293628_AGL42 PRPFAIDV.....DARR.....
LOC104442219_AGL42 RAKRTQVPFKEIQDKLKEKEKMLTAENAILTERCGIKPFRANECRDSPLL
AT5G62165_AGL42 REHREKQLEENVKLHQ.....KNVINDKSGSSTDQQQEKY

LOC120293628_AGL42 .....
LOC104442219_AGL42 RESSPSSEVETGLFIGPPETRSRRLPFQN
AT5G62165_AGL42 KVIDLNLEVETDLFIGLPNRRNC.....
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b

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LOC104449076_CBF4 1 10 20 30 40 50
AT5G51990_CBF4 MNPFSSYSDPSSCSLDFAEAGSSSDLDGRSAMVPGNFSDEEVLASG
AT5G51990_CBF4 MNPFSSYSDPSSFLS.....ISDHRSSVSDS.....SSECSFPLASG

60 70 80 90 100
LOC104449076_CBF4 QPKRAGRKKFQETRRHVRGVRRSGKHWCEVREPNKKSRIWLCFFPT
AT5G51990_CBF4 QPKRAGRKKFQETRRHVRGVRRSGKHWCEVREPNKKSRIWLCFFPT

110 120 130 140 150
LOC104449076_CBF4 AENAAARHDVAALALRGRSACLNFADSAWRIPASADADIQQAAQAA
AT5G51990_CBF4 VENAAARHDVAALALRGRSACLNFADSAWRIPETTCPEIQRAASEAA

160 170 180
LOC104449076_CBF4 EARRPAESE.....ARRVMSQYEKKSPESECM.LYDDDBVFG
AT5G51990_CBF4 MARRQNETTEGSKTAAEAEAAAGQVREARRAEQNGCVFYMDDBALLG

190 200 210 220
LOC104449076_CBF4 MPGLLTNMAEGMILLPPQCGDGYGGEDDGNLDAYVSLWNSM
AT5G51990_CBF4 MPNFFENMAEGMILLPPVEGWNHNDFDGV...GDVSLWSEDE
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Supplemental Fig. S6 Amino acid sequence alignment of AGL42 (a) and CBF4 (b) between *Eucalyptus grandis* and *Arabidopsis thaliana*.