

ceQORH $\xrightarrow{\beta 1}$ $\xrightarrow{\beta 2}$ $\xrightarrow{\beta 3}$ $\xrightarrow{\alpha 1}$

1 10 20 30 40 50

ceQORH ...MAGKLMHALQYNSYGGGAAGLEHVQVPVPTPKSNEVCLKLEATSLNPVDWKIQKG..
3TQH ...MKEMKAIQFDQFGPPKV.LKLVDTPPTPEYRKNQMLIKVHAASLNPIDYKTRNGSG
1QORMATRIEFHKKHGGPEV.LQAVEFTPADPAENEIQVENKAIGINFDITYIRS..
3QWA MKCTIPEQQKVILIDEIIGGYDV.IKYEDYPVPSISEEELLIKNKYTGVNYIESYFRKG..

ceQORH $\xrightarrow{\beta 4}$ $\xrightarrow{\beta 5}$ $\xrightarrow{\beta 6}$

60 70 80 90 100 110

ceQORH MIRPFLPRKFPCIPATDVAGEVVEVGGSGVKNFKAGDKVVAVLSHLGGGGL.AEFVATEK
3TQH FVAKKLNKNNLPSGLGYDFSGEVIELGSDVNNVNIQDKVMGIAGFPDHPCCYAEYVCASPD
1QOR ...LYPPPSLPSGLGTEAAGIVSKVGGSGVKHIKAGDRVYVY.AQSALGAYSSVHNIADKA
3QWA ...IYPCCK.PYVLGREASGTIVAKGKGVTNFEVGDQVAYISNSTFAQYSKISS..QGPV

ceQORH $\xrightarrow{\beta 7}$ $\xrightarrow{\alpha 2}$ $\xrightarrow{\alpha 3}$ $\xrightarrow{\beta 8}$ $\xrightarrow{\alpha 4}$

120 130 140 150 160 170

ceQORH LTVKRPQEVG.AAEAALPVAGLTALQALTNPAGLKLDGTGKKANIIVTAASGGVGHYAV
3TQH TIIKQLEKLS.FLQAASLPTAGLTALQAL.NQAEVKQGDV....VLIHAGAGGVGHLAI
1QOR AILPAAIS...FEQAASFLKGLTVYYLLRKTYEIKPDEQ....FLFHAAAGGVGLIAC
3QWA MKLPKGTSDDEELKLYAAGLLQVLTALSFTNEAYHVKKGDY....VLLFAAAGGVGLILN

ceQORH $\xrightarrow{\beta 9}$ $\xrightarrow{\alpha 5}$ $\xrightarrow{\beta 10}$ $\xrightarrow{\alpha 6}$ $\xrightarrow{\beta 11}$

180 190 200 210 220 230

ceQORH QLAKLANAHVTATCG.ARNIEFVKSLGAEVLDYKTPEGAA..LKSPSGKKYDAVVHCAN
3TQH QLAQQKGTTVITTAS.KRNHAFKALGAEQCINYHEEDFLL..AISTP...VDAVIDLVG
1QOR QWAKALGAKLIGTVGTAQKAQSALKAGAWQVINYREEDLVERLKEITGGKKVRVYVDSVG
3QWA QLLKMKGAHTIAVASTDEKLKIAKEYGAEYLINASKEDILRQVLKFTNGKGVDA SFDSVG

ceQORH $\xrightarrow{\alpha 7}$ $\xrightarrow{\beta 12}$ $\xrightarrow{\alpha 8}$ $\xrightarrow{\beta 13}$

240 250 260 270 280

ceQORH GIPFSVFEPNLSENCKVIDITPGPNAMWTYAVKKITMS.....KKQLVPLLLIPK..AE
3TQH GDVGISIDCLKETGCIVSV...PTITAGRVIEWAKQK.....HRRAFGLLKQFN..IE
1QOR RDTWERSLDCQLRRGLMVSFGNSSGAVTGVLNQLGILNQKGSlyVTRPSLQGYITTREELTE
3QWA KDTFEISLAAALKRKGVFVSFGNASGLIPPFISITRLSPK.NITLVRPQLYGYIADPEEWKY

ceQORH $\xrightarrow{\alpha 9}$ $\xrightarrow{\beta 14}$ $\xrightarrow{\alpha 10}$ $\xrightarrow{\beta 15}$

290 300 310 320

ceQORH NLEFMVNIVKEG..KVKTVIDSKHPLSKAEDAWAKSIDGHATGKIIVEP..
3TQH ELHYLGKLVSED..KLRIEISRIFQLSEAVTAHELLETGHVRGKLVFKVR..
1QOR ASNELFSLIASGVIKVDVAEQKYP LKDAQRAHEILES RATQGSLL..IP.
3QWA YSDEFFGLVNSK..KLNKIYKTYPLRDYRTAAADIESRKTVGKLVLEIPQ