

200

83570924.q MAAASPFFMAAAAFLV~VVLFRAPAPAAVCGEEAAAPALAFRASVADDPDDGAAVASLGGAGCANSTACGS~DGVS CAPPDGRVAAVDLSCEMSIAGELR~LDALALALPALORINTRCAVFYGNLIS-HAAP~SPPCALVEDISSAALNGTLPSPFIAFCGVRLSGEVEERPRPAAGSPFAPSIRSLDLS  
 83562391.q MAAAVRVVAPAPSVL~LVAAAVVLLHRAIAAGADEFAAAPALAFKADASVAADPGGAACAN~STTPGSPCAGA~GVRALDLALMSIAGRLR~LDALALALSLARRLDRCRAFHGDLSRHGS~RRAAPCALVEVDISSENITFNGTLPLRAFL~CGGLQTLN~LSRNLSLTGGYPPPPSLRRLDMS  
 15231225.p MKJQWQFLFLCLLIVFL~TVDsRGRRLS~DDVN~PFALETAFKQTSIKSDP~INPFGVNRGYC~SGRCFCA~RVS~SS~DGRVIGD~DLRGCG~TGTLN~LNNL~AL~NERS~LQ~Q~NF~SGDSS~SSGCS~L~V~L~D~S~T~D~S~I~V~D~Y~V~F~S~T~  
 AK101085.q MDSLWAIAAATFVAA~AVVVRGAAAAD~DQQLDEE~F~RQAVPNQ~AAAK~KGWSGG~DGA~CR~G~C~CR~N~G~R~L~S~L~A~G~E~V~L~N~A~F~R~A~V~A~T~L~Q~L~G~S~V~E~L~V~L~R~G~A~V~S~G~  
 15235059.p MKTFSSFFL~SVT~PF~FFS~F~F~S~L~S~F~Q~A~S~P~S~L~Y~R~E~H~Q~I~S~F~K~D~V~L~P~D~K~N~L~P~D~W~S~N~N~K~C~T~C~P~I~C~O~R~D~D~K~V~T~S~D~L~S~K~P~I~N~V~G~F~S~A~V~S~S~L~S~L~G~E~S~L~B~S~N~H~I~N~G~  
 52030003.q MDLIP~L~L~L~S~S~I~V~V~S~S~S~A~A~A~E~T~D~A~A~P~L~R~K~F~A~V~H~K~D~P~R~G~V~D~S~S~W~D~P~G~C~O~R~R~W~C~N~G~D~G~R~V~T~E~D~L~L~A~G~G~D~A~R~A~E~L~A~E~S~G~D~T~I~L~C~R~D~N~S~C~E~G~H~V~D~A~G~D~  
 15226381.p MTTSPIRVRIRTRI~Q~I~S~F~I~L~L~T~E~B~L~S~Q~S~S~D~Q~S~S~L~T~D~L~S~L~S~F~K~T~M~Q~D~D~P~N~N~I~S~N~P~R~K~S~P~C~F~S~V~C~L~G~G~R~V~T~E~I~N~L~S~S~L~S~G~I~V~S~F~N~A~F~T~S~D~L~S~V~L~K~E~S~E~F~V~L~N~S~T~S~  
 lir3\_IRK  
 2phk\_PhK  
 lias\_TGFbR

400

83570924.q RPKADA~LFTTSSPGARG~RLAACSAV~T~L~D~V~S~W~H~M~S~G~L~P~G~G~I~V~A~T~A~P~A~N~U~T~Y~N~I~A~N~F~T~G~D~V~S~Y~D~F~G~G~C~A~N~T~V~L~D~S~Y~N~S~H~S~T~R~L~P~P~I~N~C~R~E~E~L~E~M~S~G~N~D~L~S~G~A~P~I~T~F~L~V~G~F~S~I~L~R~R~A~L~A~G~N~E~F~T~G~A~I~P~V~E~L~G~Q~I~G~R~V~E~L~L~S~S~  
 83562391.q PNOESD~A~L~E~N~Y~S~L~T~G~C~H~G~Q~Y~I~N~L~S~A~N~O~F~T~G~S~L~P~G~L~A~P~C~T~E~V~S~V~L~D~L~S~W~N~I~M~S~G~V~L~P~P~R~E~V~A~M~A~P~A~N~U~T~Y~N~I~A~N~F~S~M~D~I~S~  
 15231225.p E~N~K~E~I~T~T~V~D~L~S~N~R~E~S~P~E~I~P~E~T~E~I~A~D~F~P~N~S~K~H~C~D~L~S~N~V~N~T~G~D~F~S~R~L~S~F~G~I~C~E~N~T~V~F~S~I~S~Q~N~I~S~G~D~R~P~V~I~S~N~C~K~N~G~I~L~N~L~S~I~N~L~I~G~K~I~P~G~D~D~Y~Y~G~N~F~O~N~L~R~Q~L~S~L~A~H~N~Y~L~S~G~E~I~P~P~E~L~S~I~L~C~T~F~V~E~L~L~S~N~  
 AK101085.q D~A~G~V~A~K~V~G~G~G~G~P~G~F~A~  
 15235059.p S~N~N~D~F~I~C~K~G~S~G~L~K~L~N~S~E~V~L~V~D~L~S~N~S~A~N~I~S~C~A~N~V~V~G~W~L~S~D~G~G~E~K~H~A~I~S~C~N~K~I~S~G~D~V~D~V~S~R~C~V~N~L~E~F~L~D~V~S~S~N~N~F~S~T~G~I~P~F~L~G~C~S~L~Q~H~D~I~S~G~N~L~S~G~D~F~S~R~A~I~S~C~T~B~L~K~L~N~I~S~N~F~V~G~P~I~P~L~  
 52030003.q F~N~N~T~G~E~P~F~G~M~L~A~S~N~I~R~S~F~D~V~S~G~N~N~M~G~D~I~S~G~V~S~I~P~A~T~L~A~V~D~L~S~C~N~F~T~G~A~I~P~  
 15226381.p Y~N~N~F~T~G~K~F~N~D~L~F~L~S~S~K~R~Q~I~Q~T~D~L~S~Y~N~I~T~G~P~I~S~G~L~I~T~P~L~S~C~V~S~M~T~Y~D~E~S~C~N~S~I~S~G~Y~I~S~  
 lir3\_IRK  
 2phk\_PhK  
 lias\_TGFbR

600

83570924.q RLYKA~D~P~A~F~A~K~C~K~S~F~E~V~L~L~G~G~N~Q~A~G~D~F~V~A~V~V~T~T~A~S~F~E~P~F~L~S~I~N~N~T~G~V~N~P~F~V~L~A~A~G~C~P~I~L~E~V~I~D~I~G~S~N~E~L~D~C~E~I~M~P~D~I~C~S~S~L~S~P~I~P~R~K~G~L~L~N~N~Y~C~V~P~S~S~E~G~C~A~N~D~E~I~L~S~I~D~L~S~I~N~L~V~F~G~K~P~T~I~H~I~R~P~K~H~V~D~V~M~A~N~L~S~C~E~P~D~V~C~S~N~T~I~T~E~L~V~I~V~S~Y~N~F~T~G~S~I~P~R~S~T~I~K~C~V~N~E~H~W~S~L~S~S~  
 83562391.q Q~L~I~C~S~L~P~A~S~G~Q~C~R~F~L~V~I~L~D~L~C~N~N~I~S~C~D~F~V~E~T~V~T~I~N~I~S~S~R~V~I~P~E~P~T~I~C~A~N~P~F~I~C~P~A~L~A~S~R~C~P~I~L~E~V~I~D~I~G~S~N~E~F~D~E~I~M~P~D~I~C~S~S~L~P~I~P~R~K~G~L~L~N~Y~C~V~N~L~S~I~D~L~S~I~N~L~V~F~G~K~P~T~I~H~I~R~P~K~H~V~D~V~M~A~N~L~S~C~E~P~D~V~C~S~N~T~I~T~E~L~V~I~V~S~Y~N~F~T~G~S~I~P~R~S~T~I~K~C~V~N~E~H~W~S~L~S~S~  
 15231225.p S~L~T~C~O~P~F~T~S~C~S~S~L~S~N~L~C~N~N~K~K~S~C~D~P~L~T~S~W~K~S~L~E~R~I~N~M~L~P~N~I~N~S~C~S~S~W~I~S~L~T~N~C~S~S~W~I~R~V~D~L~S~N~E~F~T~C~E~V~P~S~G~C~Q~S~S~V~E~K~L~I~M~N~N~V~S~C~P~V~E~L~K~C~K~S~L~C~D~I~S~N~L~C~P~K~I~W~I~L~P~K~D~S~P~D~U~V~M~E~L~T~I~N~N~L~L~T~P~S~I~S~K~C~K~N~M~F~I~S~L~S~N~  
 AK101085.q L~T~I~S~N~A~N~L~E~N~N~N~S~G~E~P~A~F~A~K~L~Q~L~A~D~L~S~P~N~H~F~G~S~  
 15235059.p H~F~Y~C~A~V~P~F~F~G~C~S~C~L~E~B~S~L~S~N~N~N~S~G~E~P~A~F~A~K~L~Q~L~A~D~L~S~P~N~H~F~G~S~  
 52030003.q I~N~S~S~I~P~E~S~L~S~S~C~A~I~R~I~L~V~A~V~V~N~N~S~G~G~I~P~A~V~V~G~N~L~I~A~V~E~S~L~S~N~F~S~G~S~  
 15226381.p N~F~T~V~P~B~S~L~S~C~W~D~S~L~D~L~N~N~N~S~G~P~F~P~T~I~R~S~F~G~S~L~Q~I~D~L~S~N~L~S~G~D~  
 lir3\_IRK  
 2phk\_PhK  
 lias\_TGFbR

800

83570924.q P~L~T~C~V~P~G~F~K~L~O~L~A~I~L~O~N~N~L~I~S~G~V~P~P~E~L~S~C~N~N~L~I~L~D~I~N~S~N~F~G~T~P~D~P~I~A~G~A~C~L~V~I~E~F~F~G~I~R~E~R~I~A~E~P~P~A~V~H~I~C~P~S~T~R~I~Y~T~C~T~V~V~T~F~I~N~G~S~M~F~I~D~L~S~Y~N~G~I~G~H~P~G~S~L~C~N~M~M~L~O~L~N~I~G~H~N~E~I~N~G~T~I~D~P~A~Q~N~I~K~S~I~G~A~D~L~S~N~N~I~D~G~C~I~P~P~G~  
 83562391.q N~L~T~C~S~I~S~G~F~G~N~L~I~N~A~I~L~O~N~N~S~S~C~K~V~P~P~E~L~S~C~N~N~L~I~L~D~I~N~S~N~F~G~T~P~D~P~I~A~G~A~C~L~V~I~E~F~F~G~I~R~E~R~I~Y~T~C~T~V~V~T~F~I~N~G~S~M~F~I~D~L~S~Y~N~G~I~G~H~P~G~S~L~C~N~M~M~L~O~L~N~I~G~H~N~E~I~N~G~T~I~D~P~A~T~G~K~G~I~A~D~L~S~N~N~I~D~G~C~I~P~P~G~  
 15231225.p I~L~T~C~I~P~V~G~I~K~O~E~K~L~A~I~L~O~N~N~S~T~C~N~P~E~L~S~C~N~N~L~I~L~D~I~N~S~N~F~G~T~P~D~P~I~A~G~A~C~L~V~I~E~F~F~G~I~R~E~R~I~Y~T~C~T~V~V~T~F~I~N~G~S~M~F~I~D~L~S~Y~N~G~I~G~H~P~G~S~L~C~N~M~M~L~O~L~N~I~G~H~N~E~I~N~G~T~I~D~P~A~T~G~K~G~I~A~D~L~S~N~N~I~D~G~C~I~P~P~G~  
 AK101085.p P~L~S~C~P~I~S~W~K~G~S~Y~L~A~I~L~L~S~N~N~S~G~C~I~P~P~E~L~D~C~S~L~V~L~D~I~N~S~N~I~G~S~P~E~K~A~K~S~C~K~M~V~G~I~V~C~R~P~Y~V~Y~L~R~D~E~L~S~C~R~G~K~S~L~E~F~T~I~R~D~D~S~R~P~S~K~K~I~N~F~T~R~M~V~G~S~T~E~T~F~I~N~K~G~S~M~F~I~D~L~S~Y~N~G~I~G~H~P~G~S~L~C~N~M~M~L~O~L~N~I~G~H~N~E~I~N~G~T~I~D~P~A~T~G~K~G~I~A~D~L~S~N~N~I~D~G~C~I~P~P~G~  
 15235059.p P~L~T~C~I~P~K~W~I~C~R~E~N~L~A~I~L~L~S~N~N~S~G~C~I~P~P~E~L~D~C~S~L~V~I~L~D~I~N~T~N~F~G~T~P~A~P~A~M~F~K~G~S~K~I~A~N~A~I~A~K~R~Y~V~Y~I~K~N~D~M~K~K~E~C~I~G~A~N~I~E~F~Q~I~R~E~B~O~N~L~R~I~S~T~R~N~P~N~I~T~S~R~V~Y~G~G~E~T~P~E~D~N~N~G~S~M~F~I~D~L~S~Y~N~G~I~G~H~P~G~S~L~C~N~M~M~L~O~L~N~I~G~H~N~E~I~N~G~T~I~D~P~A~T~G~K~G~I~A~D~L~S~N~N~I~D~G~C~I~P~P~G~  
 52030003.q Q~I~T~C~I~P~R~E~P~G~R~I~S~R~L~A~V~L~O~L~A~N~N~S~G~C~I~P~P~E~L~D~C~S~L~V~I~L~D~I~N~T~N~F~G~T~P~A~P~A~M~F~K~G~S~K~I~A~N~A~I~A~K~R~Y~V~Y~I~K~N~D~M~K~K~E~C~I~G~A~N~I~E~F~Q~I~R~E~B~O~N~L~R~I~S~T~R~N~P~N~I~T~S~R~V~Y~G~G~E~T~P~E~D~N~N~G~S~M~F~I~D~L~S~Y~N~G~I~G~H~P~G~S~L~C~N~M~M~L~O~L~N~I~G~H~N~E~I~N~G~T~I~D~P~A~T~G~K~G~I~A~D~L~S~N~N~I~D~G~C~I~P~P~G~  
 15226381.p P~L~T~C~V~P~K~D~I~C~S~I~P~E~L~D~C~S~L~V~I~L~D~I~N~T~N~F~G~T~P~A~P~A~M~F~K~G~S~K~I~A~N~A~I~A~K~R~Y~V~Y~I~K~N~D~M~K~K~E~C~I~G~A~N~I~E~F~Q~I~R~E~B~O~N~L~R~I~S~T~R~N~P~N~I~T~S~R~V~Y~G~G~E~T~P~E~D~N~N~G~S~M~F~I~D~L~S~Y~N~G~I~G~H~P~G~S~L~C~N~M~M~L~O~L~N~I~G~H~N~E~I~N~G~T~I~D~P~A~T~G~K~G~I~A~D~L~S~N~N~I~D~G~C~I~P~P~G~  
 lir3\_IRK  
 2phk\_PhK  
 lias\_TGFbR

The figure displays sequence alignments for various protein variants (83570924.q, 83562391.q, 15231225.p, AK101085.q, 15235059.p, 52030003.q, 15226381.p, lir3\_IRK, 2phk\_PhK, lias\_TGFbR) across three panels (A, B, C). The panels show sequence segments from positions 810 to 990, 1010 to 1190, and 1210 to 1320. Each panel includes a color-coded scale bar at the bottom indicating hydrophilicity (red for hydrophobic, green for hydrophilic) and a ruler scale in Angstroms (Å) on the right.