A

```
z-chim    MAIH----------VFDNDEYRPPVWKSYLYQLQQEAPHPRRVTCTSEVENRPKYYGREYHGLISREDGDLLLSVAEGSYLIRESQRQPGTYTLALRFGNQTRNFRLFYDGKHFVGEK
α2-chim   MALT----------LFDTDEYRPPVWKSYIYQLQQEAPHPRRITCTCEVENRPKYYGREFHGMISREAADQLLIVAEGSYLIRESQRQPGTYTLALRFGSQTRNFRLYYDGKHFVGEK
β2-chim   MAASSNSSLSGSSVSSDAEEYQPPIWKSYLYQLQQEAPRPKRIICPREVENRPKYYGREFHGIISREQADELLGGVEGAYILRESQRQPGCYTLALRFGNQTLNYRLFHDGKHFVGEK
          **              * :**:**:*****************:*:*: *. ************:**:**** .* **  .**:*::******** ********.** *:**::*********

z-chim    RFESIHDLVTDGLITLYIETKAAEYISKMTINPIYEHVGYTTLNREPALKKTLPVCKDLPDGKHSPAEESGLEERLTSLVRRATLKESERVPKYEKVHNFKVHTFRGPHWCEYCANFM
α2-chim   RFESIHDLVTDGLITLYIETKAAEYIAMMTINPIYEHVGYTTLNREPAYKKHMPVLKETHDERDSTGQDGVSEKRLTSLVRRATLKENEQIPKYEKIHNFKVHTFRGPHWCEYCANFM
β2-chim   RFESIHDLVTDGLITLYIETKAAEYISKMTTNPIYEHIGYATLLREKVSRR-LSRSKNEPRKTNVTHEEHTAVEKISSLVRRAALTHNDNHFNYEKTHNFKVHTFRGPHWCEYCANFM
          ***********************************.*** ******:**:** **  . :: :.  *:       . . ::     ::::******:*...:.  :*** ***********************

z-chim    WGLIAQGVKCADCGLNVHKQCSKMVPNDCKPDLKHVKKVYSCDLTTLVKAHNAKRPMVVDMCIREIEARGLQSEGLYRISGFSDLIEDVKLSFDRDGEKADISVNVYEDINVISGALK
α2-chim   WGLIAQGVKCADCGLNVHKQCSKMVPNDCKPDLKHVKKVYSCDLTTLVKAHTTKRPMVVDMCIREIESRGLNSEGLYRVSGFSDLIEDVKMAFDRDGEKADISVNMYEDINIITGALK
β2-chim   WGLIAQGVRCSDCGLNVHKQCSKHVPNDCQPDLKRIKKVYCCDLTTLVKAHNTQRPMVVDICIREIEARGLKSEGLYRVSGFTEHIEDVKMAFDRDGEKADISANVYPDINIITGALK
          ********:*:************ *****:****::****.**********.::*******:******:***:******:***:: *****::***********.*:* ***:*:****

z-chim    LYFRDLEIPVITYDAYPRFIQAAKLTDPDERLEALHEALKLLPPAHCETLRYLMAHLKRVTQNEKDNLMNAENLGIVFGPTLMRAPDLDAMTALNDIRYQRQVVELLIKNEDILF
α2-chim   LYFRDLEIPLITYDAYPKFIESAKIMDPDEQLETLHEALKLLPPAHCETLRYLMAHLKRVTLHEKENLMNAENLGIVFGPTLMRSPELDAMAALNDIRYQRLVVELLIKNEDILF
β2-chim   LYFRDLEIPVITYDTYSKFIDAAKISNADERLEAVHEVLMLLPPAHYETLRYLMIHLKKVTMNEKDNFMNAENLGIVFGPTLMRPPEDSTLTTLHDMRYQKLIVQILIENEDVLF
          *********:****:*.:**::**: :.**:**::**.* ****** ******* ***:** :**:*:****************.*: .::::*:*:***: :*::**:***:**

z-chim    LYFRDLEIPVITYDTYSKFIDAAKISNADERLEAVHEVLMLLPPAHYETLRYLMIHLKKVTMNEKDNFMNAENLGIVFGPTLMRPPEDSTLTTLHDMRYQKLIVQILIENEDVLF
```

B

SH2 domain

```
z-chimaerin    GREYHGLISREDGDLLLS-VAEGSYLIRESQRQPGTYTLALRFGNQTRNFRLFYDGKHF-VGEKR-FESIHDLVT------DGLITLYIETKAA
α-chimaerin    GREFHGIISREQADELLG-GVEGAYILRESQRQPGCYTLALRFGNQTLNYRLFHDGKHF-VGEKR-FESIHDLVT------DGLITLYIETKAA
β-chimaerin    GREFHGIISREQADELLG-GVEGAYILRESQRQPGCYTLALRFGNQTLNYRLFHDGKHF-VGEKR-FESIHDLVT------DGLITLYIETKAA
c-Src          MPWFHGKITREQAERLLYPPETGLFLVRESTNYPGDYTLCVSCDGKVEHYRIMYHASKLSIDEEVYFENLMQLVEHYTSDADGLCTRLIKPKVM
                  :** *:**.: **     * :::*** . ** ***.:  ..:. ::*:::...:: :.:*:  **.: :**       *** *  *:.*.
```

C1 domain

```
z-chimaerin    HNFKVHTFRGPHWCEYCANFMWGLIAQGVKCADCGLNVHKQCSKMVPNDC
α-chimaerin    HNFKVHTFRGPHWCEYCANFMWGLIAQGVKCADCGLNVHKQCSKMVPNDC
β-chimaerin    HNFKVHTFRGPHWCEYCANFMWGLIAQGVRCSDCGLNVHKQCSKHVPNDC
PKCδ           HRFKVHNYMSPTFCDHCGSLLWGLVKQGLKCEDCGMNVHHKCREKVANLC
               *.****.: .* :*::*.::***: **::* ***:***::* : *.* *
```

GAP domain

```
z-chimaerin    KRPMVVDMCIREIEARGLQSEGLYRISGFSDLIEDVKLSFDRDGEKADISVNVYEDINVISGALKLYFRDLPIPVITYDAYPRFIQAAKLTDPDERLEALHEALKLLPPAHCETLRYLMAHLKRVTQNEKDNLMNAENLGIVFGPTL
α-chimaerin    KRPMVVDMCIREIESRGLNSEGLYRVSGFSDLIEDVKMAFDRDGEKADISVNMYEDINIITGALKLYFRDLPIPLITYDAYPKFIESAKIMDPDEQLETLHEALKLLPPAHCETLRYLMAHLKRVTLHEKENLMNAENLGIVFGPTL
β-chimaerin    QRPMVVDICIREIEARGLKSEGLYRVSGFTEHIEDVKMAFDRDGEKADISANVYPDINIITGALKLYFRDLPIPVITYDTYSKFIDAAKISNADERLEAVHEVLMLLPPAHYETLRYLMIHLKKVTMNEKDNFMNAENLGIVFGPTL
RhoGAP         PIPIVLRETVAYLQAHALTTEGIFRRSANTQVVREVQQKYNMG---LPVDFDQYNELHLPAVILKTFLRELPEPLLTFDLYPHVVGFLNIDES-QRVPATLQVLQTLPEENYQVLRFLTAFLVQISAHSDQNKMTNTNLAVVFGPNL
                 *:*:   :  ::::.* :**::* *. :: :.:*:  :: .     :. : * :::: :  **  ::*:** *::*:* *.:.:   :: :. ::: :  :.*  **  : :.**:*  .* ::: :..:* *.  **.:****.*
```