

Figure S1

A

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UhGrx4      1 CKKLMEQSKVMLFMKGDPDTPKCGFSQKTVNLFRQEKVE---FGHYDILKDENVROGLKK
UmGrx4      1 CKKLMEQSKVMLFMKGDPDTPRCGFSQKTVNLLRQEKVD---FGHYDILKDENVROGLKK
SpGrx4      1 ---LTNAHNVMLFLKGTPSEPACGFSRKLVGLLREQNVQ---YGFFNILADDSVROGLKV
ScGrx3      1 --KLVNAAPVMLFMKGSPSEPKCGFSRQLVGILREHQVR---FGFFDILRDESVRONLKK
ScGrx4      1 --KLVQAAPVMLFMKGSPSEPKCGFSRQLVGILREHQIR---FGFFDILRDENVROSLKK
CaGrx4      1 -NKLTKAAPIMLFMKGSPSSPQCGFSRQLVAILREHQVR---FGFFDILKDDSVROGLKK
HsGrx3      1 ---LTNKASVMLFMKGNKQEAKCGFSKQILEILNSTGVE---YETFDILEDEEVROGLKA
ScGrx5      1 -EDAIESAPVVLFMKGTPEFPKCGFSRATIGLLGNQGVDPAKFAAYNVLEDPELPREGIKE
HsGrx5      1 ---LVKKDKVVFLKGTPEOPQCGFSNAVVQILRLHGVR--DYAAYNVLDDPELROGIKD
CnGrx4      1 CHELMNKHKVVLFMKGNTAPKCGFSRQTVGLLREOGVE---FAWFDIFSDEDVROGLKK
HcGrx4      1 LDELVKAAPVMLFMKGTPSAPQCGFSRQLVGLRENGVK---YGFFNILADEDVROGLKE
consensus  1  . . . . . * . * . . . . . * . * . * . . . . . . . . . . . * . . * . * . * .
  
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UhGrx4      58 LNEWPTFPQIIVNGELIGGLDILKESIESGEFQ
UmGrx4      58 LNEWPTFPQIIVNGELIGGLDILKESIESGEFQ
SpGrx4      55 FSDWPTFPQLYIKGEFVGGLDIVSEMIENGELQ
ScGrx3      56 FSEWPTFPQLYINGEFQGGLDIKESLE-----
ScGrx4      56 FSDWPTFPQLYINGEFQGGLDIKESIE-----
CaGrx4      57 FSDWPTFPQLYINGEFQGGLDIKESIEDDE--
HsGrx3      55 YSNWPTYPQLYVKGELVGGLDIVKELKENGE--
HsGrx5      60 FSEWPTIPQLYVNKEFIGGCDVITSMARSGE--
HsGrx5      56 YSNWPTIPQVYLNGEFVGGCDILLQMHQNGD--
CnGrx4      58 VNDWPTFPQIIVNGELVGGLDILREMIENGEWQ
HcGrx4      58 YADWPTFPQLVVKGELVGGLDIVKEEIIATN---
consensus  61 . . . * . * . * . . . * . * . * . . . . . . . . . . .
  
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B

