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H. sapiens|a' DKQPVKVLVGKNFEDVAFDEKKNVFVEFYAPWCGHCKQLAPIWDKLGETYKDHEN-IVIA 59
B. taurus |a' DKQPVKVLVGKNFEEVAFDEKKNVFVEFYAPWCGHCKQLAPIWDKLGETYKDHEN-IVIA 59
H. sapiens|a EEEDHVLVLKSNFAEALAAHKYLLVEFYAPWCGHCKALAPEYAKAAGKLKAEGSEIRLA 60
B. taurus |a DEEDHVLVLHKGNFDEALAAHKYLLVEFYAPWCGHCKALAPEYAKAAGKLKAEGSEIRLA 60
          :::   ::: *.      *:  :* ::***** *** : * . . * . . * :*

H. sapiens|a' KMDST--ANEVEAVKVHSFPTLKFFPASADRTVIDYNGERTLDGFKKFLESGGQ 111
B. taurus |a' KMDST--ANEVEAVKVHSFPTLKFFPASADRTVIDYNGERTLDGFKKFLESGGQ 111
H. sapiens|a KVDATEESDLAQYGVRGYPTIKFFRNGDTASPKYTAGREADDIVNWLKKRTG 114
B. taurus |a KVDATEESDLAQYGVRGYPTIKFFRNGDTASPKYTAGREADDIVNWLKKRTG 114
          *:.*:  ::  :  *:.:**:*  .  :  :*.. *  *:  ::*:.

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Figure S2. Alignment of bovine and human PDI α - and α' - domain sequences. The amino acid differences between human and bovine are colored in pink for α - domains and blue for α' - domains. The CXXC motif is shown in green.