

N-terminus HMG domain	
Human	MVQQAESLEAESNLPREALDTEEGEFMACSPVALDESDPDWCKTASGHIKRPMNAMVWSKIERRKI
Mouse	MVQQAESSEAESNLPRDALDTEEGEFMACSPVALDESDPDWCKTASGHIKRPMNAMVWSKIERRKI
Chick	MVQQAESAESNLPREAMDTEEGEFMACSPVALDESDPDWCKTASGHIKRPMNAMVWSKIERRKI
Human	MEQSPDMHNAEISKRLGKRWKMLKDSEKIPFIREAERLRLKHMADYPDYKYRPRKKPKMDPSAKPSA
Mouse	MEQSPDMHNAEISKRLGKRWKMLKDSEKIPFIREAERLRLKHMADYPDYKYRPRKKPKTDPAAKPSA
Chick	MEQSPDMHNAEISKRLGKRWKMLKDSEKIPFIREAERLRLKHMADYPDYKYRPRKKPKMDPSAKPNA
Human	SQSPEKSAAGGGGGSAGGGAGGAKTSKGSSKKCGKLKAPAAAGAKAGAGKAAQSGDYGGAGDDYV
Mouse	GQSPDKSAAG-----AKAAKGP GK KCAKLKAPAGKAG-----AGKAAQPGDCA-----
Chick	GQSPEKNAPGGG-----SKSAKSSGKKCSKLKAAAASPPKP-----GAKAAPHG DYAGD-----EYV
Acid rich domain	
Human	LGSLRVSGSGGGGAGKTKCVFLDEDDDDDDDELQLQIQEPDEEDEEPPHQQLLQPPGQQ--PS
Mouse	-----AGKAAKCVFLDDDDDEDDDELQLRPKPDADDDDEFAHSHLLPPTQQQP
Chick	FGALKV-----SSKAVKCVFVDEEEDEEDELQLRIKQEADEEEDEEP-----GP
Human	QLLRRYNVAKVPASPTLSSSAESPEGASLYDEVVRAGATSGAGGGSRLYYSFKNITKQHPPPLAQPALS
Mouse	QLLRRYSVAKVPASPTLSSAAESPEGASLYDEV-----AGGRLYYSFKNITKQPPPP--APPALS
Chick	QLLRRYNVAKVPASPTLSSSAESTEGASLYEEVRG-----AAGGRLYYSFKNITKQGPPPP-PQPPAG
C-terminus domain	
Human	PASSRSVSTSSSSSGSSSGSGEDADDLMFDLSLNFSSQSAHSASEQQLGGGAAGNLSLSLVDKDLD
Mouse	PASSRCVSTSSSS--GSSSGGAEDADDLMFDLSLNFSSQGAHSAC--EQPLGGAAGNLSLSLVDKDLD
Chick	LSPASVPLHLHLV--GRQRGGGRPPVRPQPQLLAAWPRR-----RRAGGGAAGNLSLSLVDKDLD
Human	SFSEGLGSHFEFPDYCTPELSEMIAGDWLEANFSDLVFTY*
Mouse	SFSEGLGSHFEFPDYCTPELSEMIAGDWLEANFSDLVFTY*
Chick	SFSEGLGSHFEFPDYCTPELSEMIAGDWLEANFSDLVFTY*

Figure S2.