

Figure S6

	10	20	30	40	50	60
<i>M.mulatta</i>	ETNPVFFDV	CADGEPGRI	TMELFSNIVP	RTAENFRALC	TGEKGFVK	SIFHRVIPDF
<i>H.sapiens</i>	ETNPVFFDV	CADGEPGRI	TMELFSNIVP	RTAENFRALC	TGEKGFVK	SIFHRVIPDF
<i>P.troglodytes</i>	ETNPVFFDV	CADGEPGRI	TMELFSNIVP	RTAENFRALC	TGEKGFVK	SIFHRVIPDF
<i>C.familiaris</i>	ETNPVFFDI	CADDEPLGRI	TMELFSNIVP	LTAENFRALC	TGEKGFVK	SIFHRVIPDY
<i>B.taurus</i>	ETNPVFFDI	CADDEPLGRI	TMELFSNIVP	KTAENFRALC	TGEKGFVK	SIFHRVIPDF
<i>E.caballus</i>	ETNPVFFDV	CADDEPLGRI	TMELFSNIVP	RTAENFRALC	TGEKGFVK	SVFHRVIPGF
<i>C.jacchus</i>	ETNPVFFDV	CADSEPLGRI	TMELFSNIVP	RTAENFRALC	TGEKGFVK	SIFHRVIPDF
<i>M.musculus</i>	DTNPVFFDV	CADGEPGRI	IMELFSNIVP	QTAENFRALC	TGEKGFVK	SIFHRVVPDF
<i>M.domestica</i>	ETNPVFFDI	FADDEHLGRI	TIELFSNIVP	LTAENFRALC	TGERGFVK	SVFHRVIPDF
<i>P.abelii</i>	ETNPVFFDV	CADGEPGRI	TMELFSNIVP	RTAENFRALC	TGEKGFVK	SIFHRVIPDF
<i>O.cuniculus</i>	ETNPVFFDI	CADDEPLGRI	TMELFSNIVP	QTAENFRALC	TGEKGFVK	SIFHRVIPDC
<i>R.norvegicus</i>	ETNPVFFDV	CVDGEPGRI	IMELFSNIVP	QTAENFRALC	TGEKGFVK	SIFHRVVPDF

	70	80	90	100	110	120
<i>M.mulatta</i>	YQGGDITKH	DGTGGQSIYG	DKFEDENFDV	KHTGPGLLSM	ANRGQNTNNS	QFFITLKKAE
<i>H.sapiens</i>	YQGGDITKH	DGTGGQSIYG	DKFEDENFDV	KHTGPGLLSM	ANQGQNTNNS	QFVITLKKAE
<i>P.troglodytes</i>	YQGGDITKH	DGTGGQSIYG	DKFEDENFDV	KHTGPGLLSM	ANQGQNTNNS	QFFITLKKAE
<i>C.familiaris</i>	YQGGDITKH	DGTGGRSIYG	DKFEDENFDV	KHTGPGLLSM	ANRGRDTNNS	QFFITLKKAE
<i>B.taurus</i>	YQGGDITKH	DGTGGRSIYG	DKFEDENFDV	KHTGPGLLSM	ANRGQDTNNS	QFFITLKKAE
<i>E.caballus</i>	YQGGDITKH	DGTGGRSIYG	DKFEDENFDV	KHTDPGLLSM	ANRGQDTNNS	QFFIILKKAE
<i>C.jacchus</i>	YQGGDITKH	DGTGGQSIYG	DKFEDENFDM	KHTGPGLLSM	ANRGQNTNNS	QFFITLNKAE
<i>M.musculus</i>	ICQGGDITKH	NGTGGQSIYG	DKFEDENFDL	KHTGPGLLSM	ANYGQNTNNS	QFFITLKKAE
<i>M.domestica</i>	ICQGGDITKH	DGTGGRSIYG	NTFEDENFTV	RHTGPGLLSM	ANRGRDTNNS	QFFILLKKAE
<i>P.abelii</i>	YQGGDITKH	DGTGGQSIYG	DKFEDENFDV	KHGGPGLLSM	ANQGQNTNNS	QFFITLRKAE
<i>O.cuniculus</i>	ICQGGDITKH	DGTGGKSIYG	DKFEDENFDV	KHTGPGLLSM	ANRGPNTNNS	QFFITLKKAE
<i>R.norvegicus</i>	ICQGGDITKY	NGTGGQSIYG	DKFEDENFDL	KHTGPGLLSM	ANCGQNTNNS	QFFITLKKAE

	130	140	150	160	
<i>M.mulatta</i>	HLDFKHVVFG	FVKDGMDTVK	KIESFGSPKG	SVCRRITITE	CGQI
<i>H.sapiens</i>	HLDFKHVVFG	FVKDGMDTVK	KIESFGSPKG	SVCRRITITE	CGQI
<i>P.troglodytes</i>	LLDFKHVVFG	FVKDGMDTVK	KIESFGSPKG	SVCRRITITE	CGQI
<i>C.familiaris</i>	HLDFKHVVFG	FVKDGMDTVK	KIESFGSPKG	SVSRRISITE	CGQI
<i>B.taurus</i>	RLDFKHVVFG	FVKDGMDTVK	KIESFGSPKG	SVSRRIIITE	CGQI
<i>E.caballus</i>	HLDLKHVVFG	FVKDGMDTVK	KIESFGSLEG	SVSRRISITE	CGQI
<i>C.jacchus</i>	HLDFKHVVFG	YVKDGMDTVK	KIESFGSPKG	SVGRRIAITE	CGQI
<i>M.musculus</i>	HLDFKHVVFG	FVKDGMDTV	KIESFGSPKG	SVSRRICITE	CGQL
<i>M.domestica</i>	HLDFKHVVFG	FVKDGMDTVK	KIESFGSPKG	LVSKRIMITE	CGQI
<i>P.abelii</i>	HLDFKHVVFG	FVKDGMDTVK	KIESFGSPKG	SVCRRITITE	CGQI
<i>O.cuniculus</i>	HLDFKHVVFG	FVKDGMDTVK	KIESFGSPKG	SVSRRISITE	CGQI
<i>R.norvegicus</i>	HLDFKHVVFG	FVKDGMDTV	KIESFGSPKG	SVSRRICITE	CGQL