

**Supplementary Table 2.** Oligonucleotides used in this study

<b>Oligonucleotide ID number</b>	<b>Purpose</b>	<b>Sequence</b>
P3274	Cloning hUBE3A-Iso2 (Forward)	ggc gcg cct ATG GAG AAG CTG CAC CAG TGT TAT TGG AAA TCA GGA GAA CCT CAG TCT GAC
P2918	Cloning hUBE3A-Iso3 (Forward)	ggc gcg cct ATG GCC ACA GCT TGT AAA AGA TCA GGA GAA CCT CAG TCT GA
P2919	Cloning hUBE3A-Iso3/2 (Reverse)	gc ggc cgc TTA CAG CAT GCC AAA TCC TTT GG
P3101	Cloning m <sup>ext2</sup> hUBE3A-Iso3 (Forward)	ggc gcg cc t ATG GCC ACA GCT TGT AAA AGA TCA CCA GGA GAA TCC CAG TCT GAG GAC ATT GAA GCT AGC CGA ATG
P3102	Cloning h <sup>ext3</sup> mUBE3A-Iso2 (Forward)	ggc gcg cc t ATG GCC ACA GCT TGT AAA AGA TCA GGA GAA CCT CAG TCT GAC GAC ATT GAA GCT AGC CGA ATG
RA109	Cloning h <sup>ext3</sup> mUBE3A-Iso2 (Reverse)	GCC AAG TTC GGT TTC TAG TG
P3271	Ancestral UBE3A 'MATAACK' N-terminal extension (Forward)	ggc gcg cct ATG GCC ACA GCT TGT AAA AGA TCA CCT GGA GAA CCT CAG TCT GAC GAC ATT GAA GC
P3273	Cercartiodactyla UBE3A 'MATAACK' N-terminal extension (Forward)	ggc gcg cct ATG GCC ACA GCT TGT AAA AGA TCA TCG GGA GAA CCT CAG TCT GAC GAC ATT GAA GC